



# **EHHD Research Report**

## **2018**

### **(FY 2018-19)**

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**Authors:**

Bill Ruff, EHHD Associate Dean for Research Development  
Elizabeth Bird, EHHD Project Development & Grants Specialist  
Rebecca Koltz, HHD Department Head  
Tricia Seifert, Education Department Head  
Ann Ewbank, Education Department Director of Accreditation and Operations  
Alison Harmon, EHHD Dean

# **College of EHHD Research Report 2018 (FY 2018-19)**

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# College of Education, Health and Human Development

## 2018 Report of Research, Scholarship and Creative Activities

### Executive Summary of 2018 EHHD Research Report (FY 18-19)

The research agendas of our faculty are diverse, ranging from reporting biochemical differences between organic and non-organic Fuji Apples to describing the impact of Indigenous leadership on institutional racism in schools serving American Indian communities. Although some broad themes emerge in research across the College of Education, Health and Human Development (EHHD), such as facilitating equity in education and health, and promoting wellness for all Montana citizens, a topical theme is difficult to establish. Nevertheless, there is common ground among such diversity and the common research identity seems to be centered upon enacting the land grant mission. Specifically, the shared identity within the College of EHHD is found in serving our students and communities by integrating learning, discovery and engagement.

Indicators of research development include measures of faculty productivity in terms of publications, presentations, funded research proposals and funded research expenditures to name a few. These indicators are tied to faculty recognition. However, the indicators (such as the number of publications authored) are not enough to afford a faculty member recognition in terms of scholarly identity. Scholarly identity is foundational to scholarly productivity at both the individual and college level. A national reputation for expertise in pioneering new research terrain (recognized scholarly identity) adds to an individual's credibility as well as enhancing the reputation of the college and university thus attracting more competitive funding for projects as well as attracting more students and faculty members. Thus, a vision resulting in increased scholarly productivity does not start with the productivity indicators but with a shared understanding across the college about what constitutes recognition of a distinct scholarly identity and how that scholarly identity is to be developed. The means for facilitating the development of scholarly identity is to engage faculty members in academic conversations and collaborations, train faculty members in current disciplinary knowledge and methodological skills, and nurture faculty members to deeply reflect upon their practice and share their reflections with others.

#### **Engagement**

Currently the College of EHHD has three centers—the Center for Multicultural and Bilingual Education, the Center for Research on Rural Education, and the Science and Math Learning Center. These centers have the capacity to engage faculty by providing a forum for interests to be expressed around specific research projects and outreach collaborations which engage communities across Montana, the Northern Plains and Northern Rocky Mountain region, and beyond.

Scholarly engagement is supported by organizational structures, such as the three centers noted about. On the other hand, scholarly engagement has emerged through self-organizing and semi-structured activities as well. An example of self-organizing engagement activities is seen in the emerging of writing groups where several faculty members within EHHD meet periodically to read and critique each other's writings. Some of the writing groups were self-initiated while others developed through an initiative by MSU's Center for Teaching and Learning. Faculty members within the writing groups perceive themselves as more productive through the reflection and the accountability group members provide to one another. An example of semi-structured engagement activities can be seen in academic

conversations and collaborations established and promoted through various intra- and inter-collegiate forums. *Common Threads*, a network of MSU Indigenous researchers who meet monthly to discuss ongoing research with Indigenous communities throughout Montana, is one such inter-collegiate forum. Organized by Dr. Elizabeth Bird in late 2017, the forum dramatically grew throughout 2018 with members from almost every college meeting monthly to coordinate research studies conducted within Indigenous communities across the state as well as address issues of common concern.

### **Training and Faculty Support**

Current disciplinary knowledge and methodical skills are essential to the development of a scholarly identity as well as success in research productivity. Several EHHD initiatives facilitating training and support included: the mini-grant program, monthly brown bag seminars, and grant award start-up meetings.

The EHHD mini-grant program provided incentive to faculty members to develop inquiry proposals around specific themes –such as community-based participatory research, transformational teaching, pilot research projects, and the integration of teaching and learning scholarship. In 2018, EHHD invested \$138,334 in funding 22 mini-grant proposals. The EHHD Mini-Grant program was initiated in 2015 to provide faculty the opportunity to fund ideas that have potential toward increasing the reputation of the college. To date, \$407,346 have been invested in the program. A direct result of this investment, faculty have been awarded \$1,575,340 in grants of which 65% of the funding has been from external grant sources such as federal, state, or foundation funding. This represents an overall return on investment of \$3.87 per dollar invested in the mini-grant program. Furthermore, 169 presentations and 34 publications have been produced as a direct result of mini-grant funding.

Five brown bag” seminars were conducted featuring a total of 4 external visitors, 14 faculty and 1 grad student on topics pertaining to funded research, interdisciplinary research, Indigenous research methods, integrated scholarship and publication productivity and impact.

The grant award start-up meetings offered just-in-time training in grant management and established a collaborative forum for PI, Co-PIs, departmental fiscal managers, HR staff, and the OSP representative to discuss the scope of the funded research project, clarify the policies and procedures applicable to the project and fund expenditures related to the project towards the prevention of misunderstandings among the implementation team.

### **Nurturing**

EHHD’s two key strategies for nurturing were increasing the awareness of faculty regarding the resources offered by the college and the university as well as developing the means of supporting pre-retention tenure track faculty toward success and well-being.

The New Faculty Success and Productivity Learning Community was developed to establish and maintain a college-wide learning community facilitating the induction of new faculty members into EHHD. The goal of the learning community is to provide essential support to each faculty member’s success through tenure. Faculty success relies personal management of the local environment and relationship building across the college, university and state stakeholders as well as technical knowledge and skill. This learning community is established to provide the basic structural components necessary for the support needed by new faculty to successfully develop their individual reputations as scholars in conjunction

with other induction and mentoring programs offered by Montana State University for tenure track faculty members.

The promotion of well-being and a balanced life-style is often neglected in the pursuit of garnering a scholarly identity, especially among junior faculty members striving to obtain tenure. It is essential that organizational routines and structures be created to facilitate the overall well-being of faculty members and help faculty and staff members to create a sustainable lifestyle.

### **Productivity**

2018 was a good year for funded scholarship. Although the rate of successful awards dropped by 10%, the number of faculty members submitting proposals increased by 32%. Furthermore, the number of faculty members submitting multiple proposals also increased by 23% resulting in an overall increase in grant expenditures by 17.8%, among the best increases in expenditures of all the colleges within Montana State University.

Dissemination of scholarly products in 2018 was mixed. Specifically, the number of scholarly presentations made by faculty and students increased almost 2-fold (197%) from 150 presentations in 2017 to 296 presentations in 2018. Similarly travel scholarships for students to present at regional, national, and international conferences increased 24% from 38 students receiving \$500 travel scholarships to 47 students receiving travel scholarships. On the other hand, in 2018, EHHD faculty and students published 96 scholarly works, a 28% decrease in publications from 2017.

### **Office of the Associate Dean for Scholarship Development and Academic Impact Actions for 2019**

- Conduct follow-up meetings with faculty submitting grant proposals that were not awarded and rejected publications to assist and support the faculty members in revising and resubmitting the scholarly work.
- Conduct town hall meetings with faculty to establish a shared understanding of academic impact.
- Implement the New Faculty Success and Productivity Learning Community to include the training and orientation of tenured faculty to support the community.
- Continue to conduct grant award meetings to facilitate and coordinate effective grant management.
- Continue to meet with each candidate for a tenure track position to explain the resources available at MSU and within EHHD for scholarship development.
- Continue to meet with new faculty members within the first semester of their appointment to discuss their research agenda and resources needs.
- Continue to assist faculty in grant writing, reviewing proposals, and scholarship development

# **College of Education, Health and Human Development**

## **2018 Report of Research, Scholarship and Creative Activities**

The purpose of this report is to summarize the accomplishments of the faculty and staff toward furthering the scholastic reputation of the College of Education, Health and Human Development towards contributing to the land-grant mission of Montana State University, towards benefiting the citizens of the state of Montana, and towards advancing the national and international reputation of this college and university.

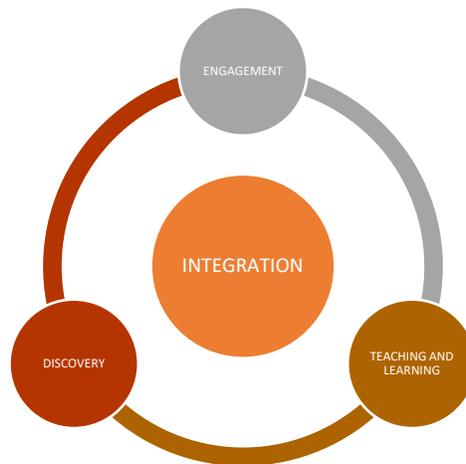
### **Enacting the Land Grant Mission**

#### **Synthesis of a Research Identity for the College of Education Health and Human Development (EHHD)**

The departments and programs housed within EHHD are among the most diverse grouping of disciplines housed in any college at Montana State University. Academic disciplines range from Early Childhood Education to Adult and Higher Education, and from Food Science to Mental Health Counselling. Similarly, the research agendas of our faculty are equally diverse ranging from the biomechanics of exercise injuries to describing the impact of a video game on spacial perception of middle school students. Although some broad themes emerge in research across EHHD, such as facilitating equity in education and health, and promoting wellness for all Montana citizens, a topical theme is difficult to establish. Nevertheless, there is common ground among such diversity and a common research identity seems to exist which is centered upon the concept of enacting the land grant mission. Specifically, a common identity is found in serving our students and communities by integrating learning, discovery and engagement.

Boyer (2016) outlined four types of scholarship (see Figure 1). The scholarship of discovery is most closely associated with the meaning that we ascribe when using the term of research. It is the process and result of empirical inquiry. Scholarship of Engagement is applied scholarship often deliberately directed toward facilitating outcomes for a specific community or within a specific context. Scholarship of Teaching and Learning is the continuous improvement of applied instructional and curricular activities to improve student outcomes. Integrated scholarship is the combination of all three, or two of the three of these other forms of scholarship (Discovery, Engagement and/or Teaching & Learning) into a single project or series of similar projects.

**FIGURE 1**  
**TAXONOMY OF SCHOLARSHIP WITHIN THE**  
**COLLEGE OF EDUCATION, HEALTH AND HUMAN DEVELOPMENT**



An example of integrated scholarship within EHHD is the Montana Teachers of English Language Learners (MontTELLs) project. The project was initiated in 2016 through a language acquisition grant provided by the US Department of Education amounting to 2.7 million dollars over a 5-year period. The project provides outreach to Montana schools by increasing awareness of an underserved English Language Learner (ELL) population among schools serving rural and American Indian communities, then provides graduate education to teachers located in these remote communities for improved ELL instruction. Furthermore, through a clinical trial research design, data is being collected and reported demonstrating the efficacy of the innovative teacher professional development model compared to the current professional development model used by schools within Montana. Within EHHD, such examples of integrated scholarship are numerous: Held & McCormack, "Improving chronic illness management with the Apsaalooke Nation: The Baannilah Project," Sponsored by National Institute Of Health (NIH); Miles, Walk, and Yeoman, Controlling Inflammation and Atherogenesis through Exercise and the Gut Microbiome," Sponsored by American Heart Association; Harmon, Product Development and Evaluation Resources and Infrastructure to Support Value-Added Specialty Crops, Sponsored by Montana Department of Agriculture (MDA), (AMEHEA); Byker and Ahmed, Enhancing Dietary Quality through a Community-Based Food Intervention for FDPIR Participants on the Flathead Reservation," Sponsored by National Institute Of Health (NIH); and the Indian Leadership Education and Development (I LEAD) series of projects, sponsored by US Dept of Education, to name just a few.

Understanding the taxonomy of scholarship that exists within EHHD is essential to appropriately recognizing, valuing and developing the full range of diverse scholarship that exists among the research agendas of all faculty members. For many of the physical, biological, and social science disciplines integrated scholarship often begins with the scholarship of discovery. Basic research is then translated

into the scholarship of engagement and/or the scholarship of teaching and learning. Similarly, there are several faculty members within EHHD whose research agendas focus on the scholarship of discovery. Yet, most EHHD faculty members focus on the scholarship of engagement or the scholarship of teaching and learning then translate this scholarship into the scholarship of discovery. The creative effort for most lies in constructing a theory of action from principles derived from the physical, biological, or social sciences and applying the theory of action to a specific context, evaluating the results and adapting the theory of action (scholarship of engagement or scholarship of teaching & learning depending upon the context of the application). Such theories of action are translated into the scholarship of discovery.

Argyris (1999) wrote:

Most social science research...has as its ultimate objective explanation and generalization. It is a science after-the-fact. Social scientists observe what is going on, organize their observations into theories that explain, generalize, and predict. ...The fundamental assumption of after-the-fact theory is that someday it will become complete enough to be used to inform before-the-fact phenomena. This assumption can be questioned on empirical as well as logical grounds. (p.306)

Thus, translating outcomes from theories of action applied within specific contexts is a valid and valuable approach to generating research could be further developed. Put another way, translating the outcomes obtained through the scholarship of engagement or the scholarship of teaching and learning into the scholarship of discovery is just as important as translating the scholarship of discovery into engagement or teaching and learning.

#### References

Argyris, C. (1999). *On organizational learning (2d ed)*. Malden, MA: Blackwell Publishers Inc.

Boyer, E. (2016). *Scholarship Revisited: Priorities of the professoriate (expanded edition)*. San Francisco: Jossey-Bass

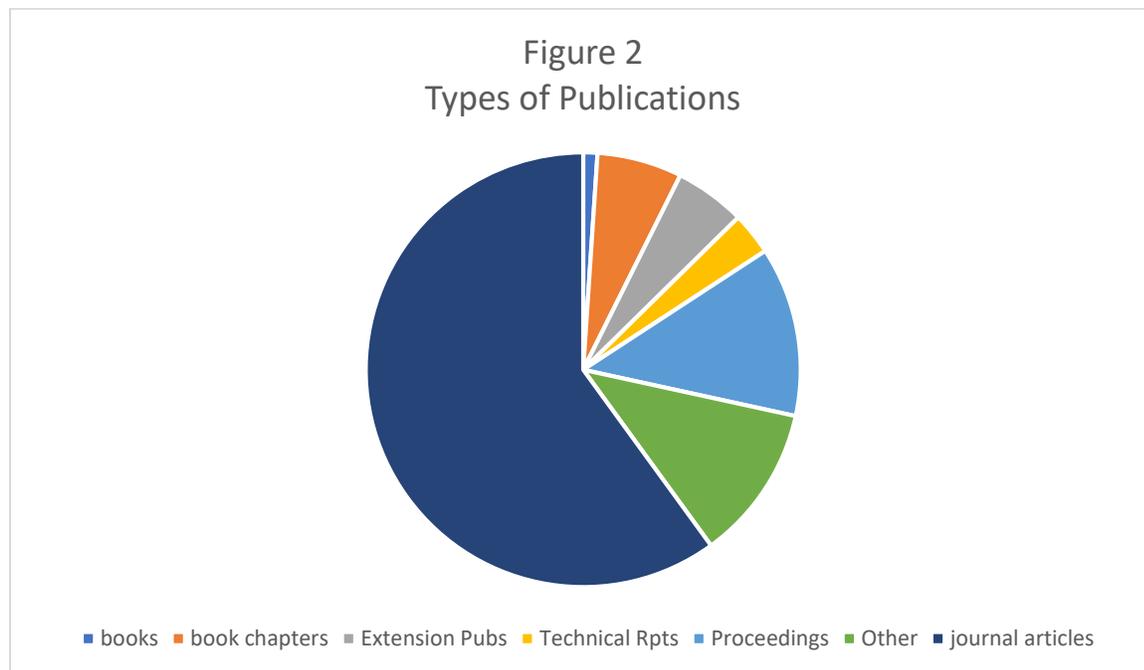
### **Diversity of Scholarly Contributions by EHHD Faculty in 2018**



### 2018 EHHD Scholarly Productivity

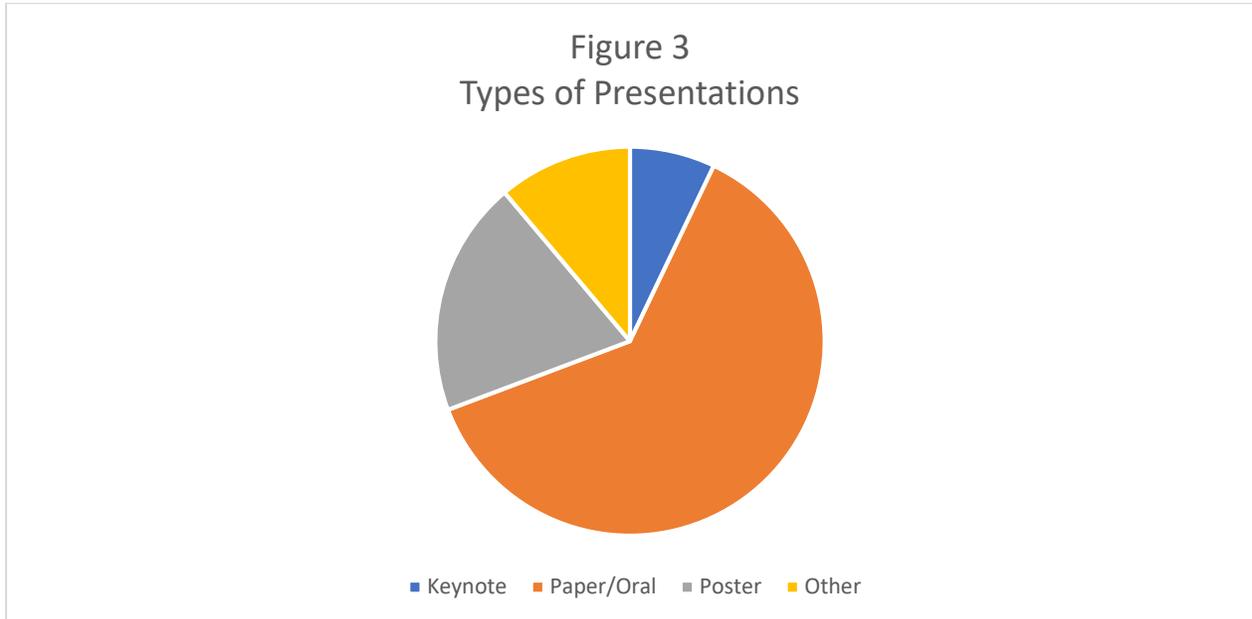
#### Publications

In 2018, EHHD faculty produced a total of 96 publications including 57 peer-reviewed articles appearing in scholarly journals. Figure 2 below depicts the proportion of the different types of works published. The mean publication rate for EHHD was 1.78 publications per tenured or tenure-track faculty member.



## Presentations

In 2018, EHHD faculty made 296 presentations including 184 presentations in peer-reviewed venues. Figure 3 below depicts the proportion of the different types of presentations made. The mean presentation rate for EHHD was 5.48 presentations per tenured or tenure-track faculty member.



## Funded Scholarship

Funded research has continued to expand. During the academic year of 2018-19, grant expenditures increased by 17.8%. Additionally, the number of PIs/Co-PIs submitting proposals increased 32% and the number of PIs/Co-PIs submitting multiple proposals increased 23%. Figure 4 is the amount of grant expenditures by year in millions of dollars demonstrating a consistent increase over the last three years.

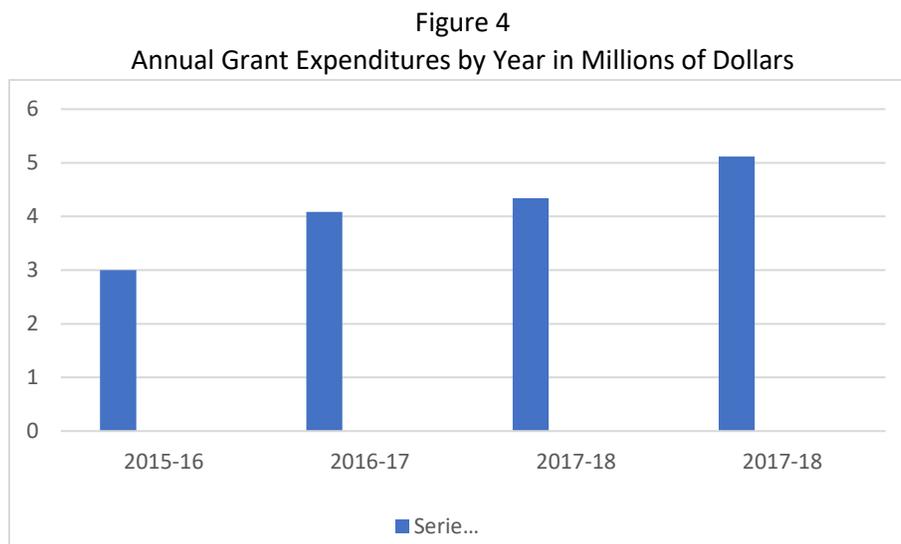


Figure 5 shows the number of proposals, grant awards and faculty members submitting proposals by year. Although there is some fluctuation in the number of proposals submitted and the number of grant awards, the number of faculty submitting proposals has steadily increased over the last three years.

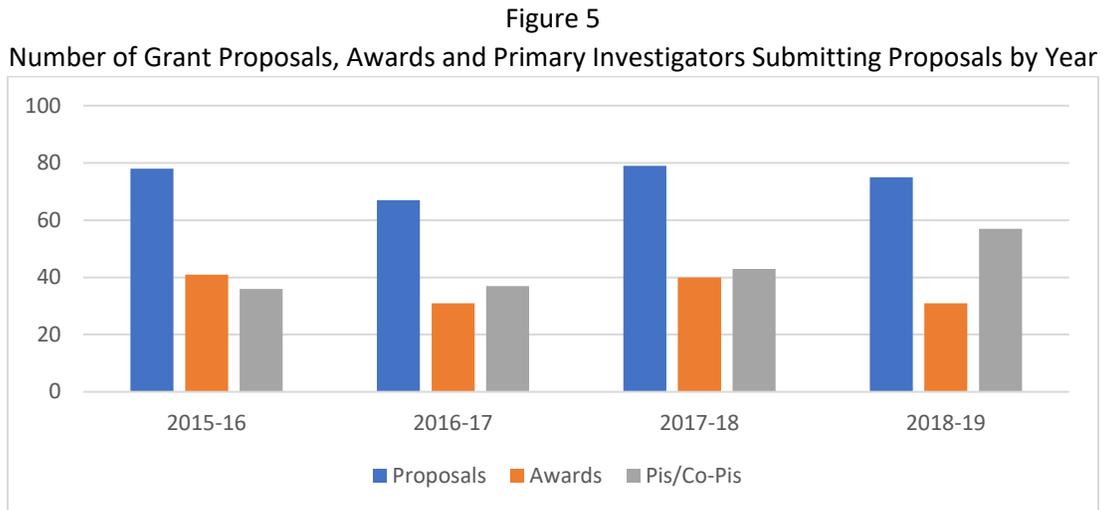
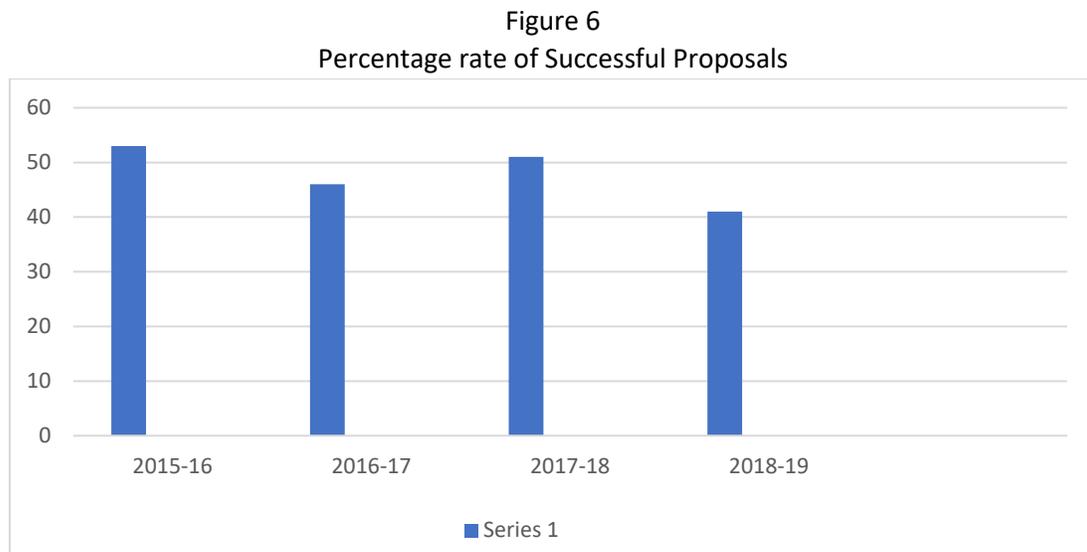
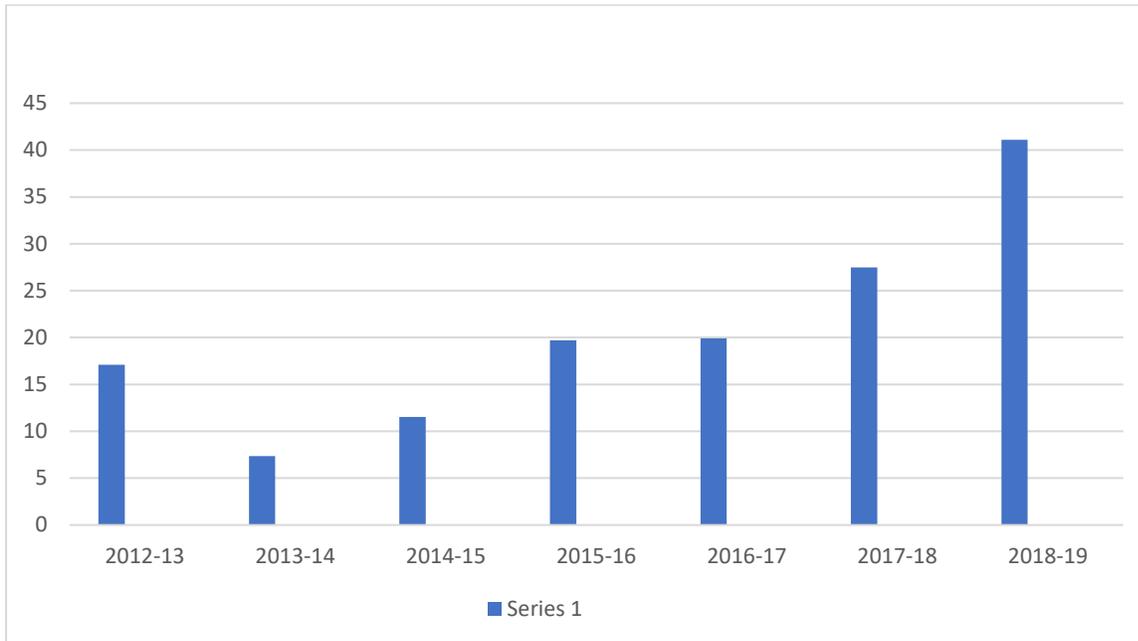


Figure 6 shows the percentage rate of proposal success by year. Although the success rate of submitted proposals fluctuates from year to year between 40% and 55%, the reason for the fluctuation may be due to the increasing numbers of faculty members submitting proposals for the first time.



Finally, as many of the grants are multiyear awards, Figure 7 shows the increasing total value of active grants in millions of dollars. This increasing value demonstrates a healthy and robust funded research program within EHHD.

Figure 7  
Total Value of All Current Grant Dollars in Millions

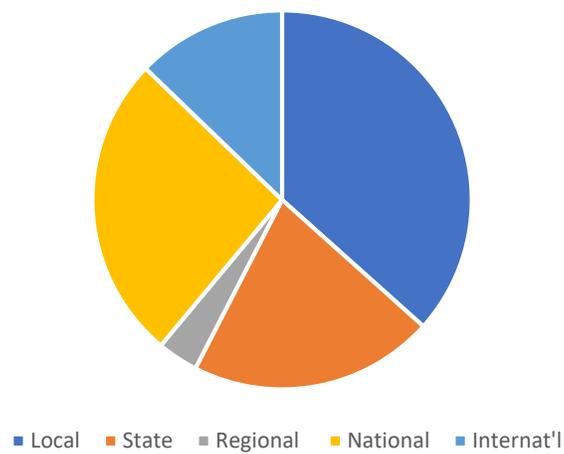


## Evaluation of EHHD Mini-Grant Program

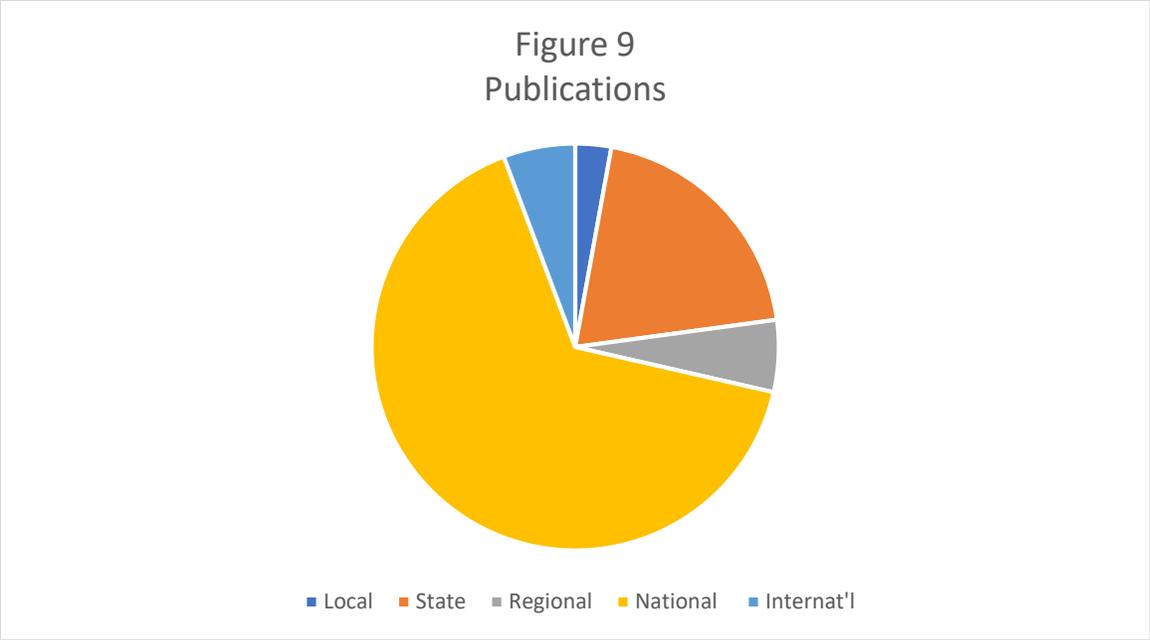
The EHHD Mini-Grant program was initiated in 2015 to provide faculty the opportunity to fund ideas that have potential toward increasing the reputation of the college. Five types of mini-grants have been funded since the program began in the areas of: transformational teaching and learning, service-learning student success, integration of scholarship, seed research projects, and seed Community-Based Participatory Research (CBPR) projects. To date, \$407,346 have been invested in the program and as a direct result of this investment, faculty have been awarded \$1,575,340 in grants of which 65% of the funding has been from external grant sources such as federal, state, or foundation funding. This represents an overall return on investment of \$3.87 per dollar invested in the mini-grant program.

Two primary indicators of academic impact are the number and quality of presentations and publications. Since 2015, 169 presentations were produced from work funded through a mini grant. Forty percent of the presentations were at national or international venues. Figure 1 below indicates the presentation type.

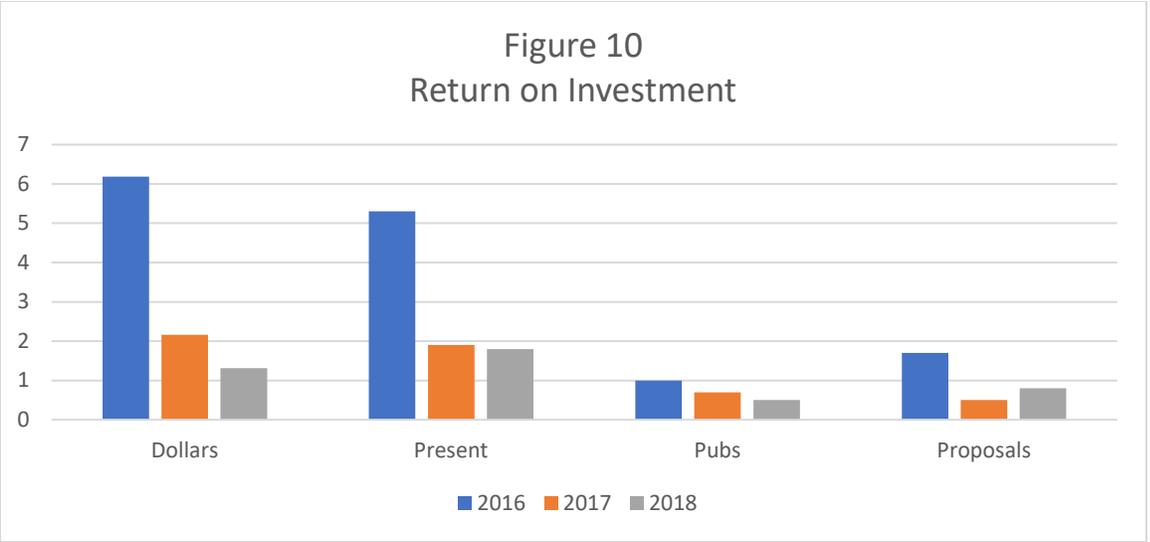
Figure 8  
Presentations



In addition to a significant number of presentations emerging from mini grant projects, there have been 34 publications produced from mini grant projects. Seventy-four percent of these publications have been in peer-reviewed national or international journals. Figure 2 below indicated the publication type.



In 2015, the mini grant program began by awarding nine grants to faculty. Fourteen grants were awarded in 2016, ten in 2017, and 22 in 2018, for a total of 55 grants awarded since the inception of the program. Figure 3 below shows the return on investment disaggregated by year for the last three years. Return on investments dollars were calculated using the total amount of grants awarded divided by the amount of the dollars funding the mini grants for that year. Presentations, publications and grant proposals were calculated based on the number products produced divided by the number of grants awarded for that year.



Although the return on investment appears to be declining over the years, it must be noted that the decline has more to do with the fact that this is a snapshot in time rather than showing a negative trend. Specifically, the products for mini grants projects awarded in 2016 have had an opportunity to mature,

while the projects for 2017 have only recently been completed and the five projects for 2018 will not be completed until 2020. So, while the trend appears to be declining the reason for this decline is that projects for 2017 and 2018 are still in the process of developing and disseminating their findings.

In today's marketplace, very few investment opportunities exist where one can double one's investment in three years. Yet, the funds invested in the mini grant program increased six-fold during that same period of three years. Presentations increased five-fold, and despite a time lag between the development of a manuscript and its publication often more than two years long, the number of publications produced have kept pace with the number of grants awarded. The mini grant program has a strong return on investment and has substantively enhanced the reputation of this college and its faculty. Recommend the program continue.

## **EHHD Strategic Plan Objectives for Research, Scholarship and Creative Activities**

This annual report ends the 5-year strategic planning cycle that began in 2014 and heralds the beginning of the next 7-year strategic plan that starts during the 2019-2020 academic year.

### **2014 Strategic Plan Goals pertaining to Discovery**

1D - Increase financial and personal support for faculty and students' discovery projects

- Goal: Maintain or increase college-level financial support for research (e.g., mini travel grants for students and faculty and seed grant support); current level of support is \$10,000/yr each for student/faculty travel and seed grants (\$20,000 total).
- Performance Results:
  - Student Travel Awards:
    - 2017 – Travel scholarships of \$500 awarded to 38 students totaling \$19,000. Each student presented his or her scholarly work at a regional, national or international conference.
    - 2018—Travel scholarships of \$500 awarded to 47 students totaling \$23,500. Each student presented his or her scholarly work at a regional, national or international conference.
  - Mini-grants Awards:
    - 2015—9 grants awarded totaling \$27,089
    - 2016—14 grants awarded totaling \$155,967
    - 2017—10 grants awarded totaling \$106,298
    - 2018—22 grants awarded totaling \$ 138,334
  - From the work funded by the mini-grants, 169 scholarly presentations were made of which 40% were at national or international conferences. Additionally, 34 publications resulted in the work funded by the mini-grants of which 74% of these publications were in peer-reviewed national or international journals. Finally, on average, the mini-grant awards have returned \$3.87 in external grant funding for each \$1.00 invested.

1D.3 - Add PhD programs and increase the number of doctoral degree conferrals.

- Goal: Add PhD programs in ED by 2015 and in HHD by 2017. While sustaining EdD program, develop new doctoral program curricula including EHHD common courses in research, statistics, curriculum development, etc.; Examine ways to support these programs (e.g., support more doctoral students and fewer master's students, rotate course offerings to include doctoral courses, join Carnegie Project on the Education Doctorate-CPED)

- Performance Results:
  - A PhD in Education with three areas of concentration was developed and successfully launched in 2016
  - For the past two years, using information from the Carnegie Project on the Education Doctorate (CPED) as well as other resources, the faculty of the Education Department have been discussing how to clearly differentiate the Doctor of Education degree from the Doctor of Philosophy in Education degree. Agreement was reached during the 2018-2019 Academic Year articulating the difference between the two degrees and published in the student handbook.
  - Planning permission for two additional PhD degrees have been granted in 2018: a PhD in Exercise and Nutrition Science, and a cross-disciplinary PhD in Indigenous and Rural Health Equity. Both degree programs are actively being developed.

### **2019 Strategic Plan goals and strategies pertaining to research, scholarship and creative activities**

A new 5-year strategic plan has been developed for the college and is being implemented. The goals, strategies and measurement indicators pertaining to the development of scholarship are listed below.

2.1.1. Support EHHD student research by encouraging faculty mentorship of undergraduate and graduate scholars (such as USP projects, McNair and INBRE scholars etc.).

- Number of faculty involved in mentoring students
- Number of students supported with travel scholarships

2.1.2. Use EHHD internal grant awards to stimulate projects that address the interdisciplinary Grand Challenges of Montana (community health, early childhood, public policy, education and health equity, food security, sustainable food systems and biomedical sciences).

- Number of proposals funded and dollar amounts
- Research product outcomes
- Number of new partnerships created

2.1.3. Increase impact and strengthen EHHD's reputation in scholarship by encouraging/incentivizing faculty to deliver public presentations to share their scholarship with the MSU Community and Montana's communities and beyond (Social Media Channels, EHHD Talks, PK, 10x10, etc.); increase internal and external dissemination and circulation of EHHD scholarly research products.

- Number of outreach events that feature EHHD faculty sharing their scholarship
- Number of faculty delivering public presentations to share their scholarship
- Number of videos disseminated to share faculty scholarship

2.1.4. Develop continuous improvement goals for EHHD scholarship and document the significance and impact of their fulfillment in the annual EHHD Scholarship and Academic Impact report. Communicate expectations to faculty and engage faculty in self-assessment of impact.

- Annual development and assessment of goals
- Creation of a faculty scholarly productivity index to be utilized in documenting continuous improvement
- Annual improvement in index of faculty scholarly productivity based on number of publications, presentations and grants

2.2.1. Conduct an EHHD curriculum assessment for the purpose of determining where degree programs intersect, identifying opportunities for creating efficiencies, opportunities for co-teaching, and cross-disciplinary active learning experiences.

- Assessment Completed

2.2.2. Support the expansion and enhancement of shared interdisciplinary research labs (eg. Neuromuscular Biomechanics Laboratory; Interdisciplinary Digital Research Lab) and college-affiliated centers (Center for Bilingual and Multicultural Education, Center for Research on Rural Education, Science Math Resource Center).

- Number of graduate students and affiliate faculty
- Number of interdisciplinary proposals, projects/events, and grant awards
- Research expenditures

2.2.3. Use EHHD internal grant awards to stimulate projects that address the interdisciplinary Grand Challenges of Montana (community health, early childhood, public policy, education and health equity, food security, sustainable food systems and biomedical sciences)

- Number of proposals funded and dollar amounts
- Research product outcomes
- Number of new partnerships created

2.3.1. Increase impact and strengthen EHHD's reputation in scholarship by encouraging/incentivizing faculty to deliver public presentations to share their scholarship with the MSU Community and Montana's communities and beyond (Social Media Channels, EHHD Talks, PK, 10x10, etc.); increase internal and external dissemination and circulation of EHHD scholarly research products.

- Number of presentations
- Diversity of audiences
- Number of outreach events that feature EHHD faculty sharing their scholarship

2.3.2. Host scholarly symposia with university, state, national or international audiences.

- Number of events which EHHD hosts/co-hosts
- Demographics of participants

2.3.3. Develop a college level infrastructure for nominating deserving faculty, staff, and students for national/international awards.

- Create infrastructure
- Number of nominations
- Number of awards

2.3.4. Develop continuous improvement goals for EHHD scholarship and document the significance and impact of their fulfillment in the annual EHHD Scholarship and Academic Impact report. Communicate expectations to faculty and engage faculty in self-assessment of impact.

- Annual development and assessment of goals
- Creation of a faculty scholarly productivity index to be utilized in documenting continuous improvement
- Annual improvement in index of faculty scholarly productivity based on number of publications, presentations and grants

2.4.1. Develop an EHHD workload policy that supports 'investment' in alternative forms of integrated teaching and scholarship— including undergraduate research and intern supervision, graduate student advising, post-doctoral mentoring.

- Create a policy
- Number of faculty engaged with undergraduate, graduate and post-doctoral students in research

2.4.2. Develop continuous improvement goals for EHHD scholarship and document the significance and impact of their fulfillment in the annual EHHD Scholarship and Academic Impact report. Communicate expectations to faculty and engage faculty in self-assessment of impact.

- Annual development and assessment of goals
- Creation of a faculty scholarly productivity index to be utilized in documenting continuous improvement
- Annual improvement in index of faculty scholarly productivity based on number of publications, presentations and grants

2.4.3. Increase research expenditures in EHHD, grant success rate, number of funded grants, and the number of PIs involved in grant writing.

- Research Expenditures
- Number grant applications and award rate
- Number and percentage of faculty engaged in grant writing and grant management

2.4.4. Provide support and professional development for faculty to better integrate their research, teaching, and service.

- Number of CFE activities with integration focus led/co-sponsored by EHHD
- Develop and pilot the "New Faculty Success and Productivity Program"
- Number of pre-tenure faculty engaged in the "New Faculty Success and Productivity Program"

## Annual Goals and Accomplishments

Last year's EHHD research report contained several process goals or strategies to facilitate continuing success in scholarly productivity within the EHHD. Below are the process goals and the accomplishments that have been made by the college's Office of Scholarship Development and Academic Impact.

- Continue monthly "brown bag" seminars promoting the understanding and skills needed for to establish and maintain a scholarly identity.
  - Five brown-bag seminars featuring a total of 4 external visitors, 14 faculty and 1 grad student. The topics of each of the seminars is listed below.
    1. Campus IDeA programs and how they're relevant to EHHD faculty
    2. Interdisciplinary research
    3. Indigenous Research Methods
    4. Integrated Scholarship
    5. Enhancing publication productivity and impact
- Blog and Tweet tips for grant success.
  - We published one "grant success" tweet every week starting early January.
  - We contributed notices to about 2 dozen "Tuesday Times" newsletters
- Formalize a new faculty mentorship program.
  - A program to support new faculty members was developed. As there are several different individual mentoring programs offered to junior faculty at the university, the focus of college's program was to establish a Learning Community focused on developing the productivity of new faculty through retention. Program implementation began in AY 2019-20.
- Offer a graduate course on grant writing in conjunction with a faculty grant-writing boot camp.
  - A graduate course on grant writing was offered under a special topics rubric during summer 2018. Three graduate students and four faculty members participated in the course.
- Develop a comprehensive faculty handbook that makes tacit processes explicit.
  - Conducted five "faculty handbook" discussions to share info and gather questions/ideas of what needs to be in the handbook under development, on these topics:
    1. Applying for professional society and other kinds of awards
    2. Who are the EHHD staff and who do you go to with different kinds of questions?
    3. Mentoring of faculty - what do we need in the college?
    4. Grant submission and management
    5. Designing research assistant positions
  - From these meetings, the first two chapters of the handbook have been finalized and posted online. The remaining chapters are still being drafted.
- Facilitate meetings of scholars working with Indigenous communities.
  - Organized and facilitated monthly meetings of the Common Threads Network of Indigenous Communities' Research Partners (total number of faculty, staff or grad students who have participated at least once is 65; 11 campus units have hosted refreshments)

- Conduct campus-wide symposia
  - EHHD showcased of CBPR Projects in Sept 2018 as part of the 125 Year Anniversary Celebration.
  - Conducted “EHHD Talks,” an event where the college’s award-winning faculty members presented their work in a 10 minute presentation to the public at the Museum of the Rockies.

### **Annual Process Goals for 2019**

- Conduct follow-up meetings with faculty submitting grant proposals that were not awarded to assist and support the faculty members in revising and resubmitting the proposal on the next call for proposals.
- Implement the New Faculty Productivity Learning Community to include the training and orientation of tenured faculty to support the community.
- Continue to conduct grant award meetings to facilitate and coordinate grant effective management.
- Continue to meet with each candidate for a tenure track position to explain the resources available at MSU and within EHHD for scholarship development.
- Continue to meet with new faculty members within the first semester of their appointment to discuss their research agenda and resources needs.
- Continue to assist faculty in grant writing, reviewing proposals, and scholarship development

**EHHD Grant Funding History**

	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Expenditures per OSP</b>	3,705,050	3,510,888	3,287,913	3,000,177	\$ 4,085,888.00	\$ 4,341,538.45	\$ 5,115,682
<b>F&amp;A credited</b>	405,705	348,603	351,054	401,315	\$ 427,109.00		

	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Dollars of funded proposals</b>	\$ 677,762	\$ 5,957,736	\$ 4,208,749	\$ 15,036,331	\$ 8,713,405	\$ 11,312,712	\$ 8,982,789
					<b>4 proposals still pending:</b>		<b>\$762,214</b>
<b>Dollars of submitted proposals</b>	\$ 2,768,504	\$ 10,685,810	\$ 21,985,683	\$ 31,242,436	\$ 36,067,038	\$ 32,932,216	\$ 37,247,450
<b>Numbers of funded proposals</b>	6	32	34	41	31	40	31
<b>Numbers of submitted proposals</b>	15	56	63	78	67	79	75
<b>Average proposal size</b>	\$ 184,567	\$ 190,818	\$ 348,979	\$ 400,544.05	\$ 538,314.00	\$416,863	\$ 496,633
<b>Rate of proposal success</b>	40%	57%	54%	53%	46%	51%	41%
<b>Numbers of funded PIs/Co-PIs (new grants)</b>	6	24	25	25	22	31	33
<b>Numbers of PIs/Co-PIs submitting</b>	13	30	33	36	37	43	57
<b>New PIs (submitting or funded)</b>	0	12	13	14	11	17	12
<b>Numbers of PIs/co-PIs submitting more than one proposal</b>	4	13	18	20	16	22	27
<b>Total dollar value of all current grants on approx Sept. 30, 2019</b>	\$ 17,102,883	\$ 7,357,055	\$ 11,517,153	\$ 19,722,521	\$ 19,922,407	\$ 27,469,597	<b>\$ 41,840,508</b>

## **Community-Centered and Compassionate Scholarship Symposium**

September 6, 2018, 4-8:30pm.

Strand Union Ballrooms

Sponsored by the MSU College of Education, Health & Human Development.

**4:00 – 5:15pm** Campus-wide poster session (including Colleges of EHHD, Agriculture, Arts & Architecture, Engineering, Letters & Sciences, Nursing, and MSU-Extension)

**5:15 - 5:30pm** Break and food

**5:30 – 7:10pm** Talks on Community-Based Participatory Research (CBPR):

1. Beth Rink & Suzanne Held  
*Community Based Participatory Research: The Importance of Context and Collaboration in Community Engagement to Advance Science*
2. Sandra Bailey  
*Montana Grandparents Raising Grandchildren*
3. Rebecca Koltz & Dawn Tarabochia  
*Living Well in Later Years: Focusing on Men's Well-being*
4. Tena Versland, Nick Lux, Joe Hicks, John Melick  
*Recruiting and Retaining Outstanding Teachers for Eastern Montana's Rural Communities: The Rural Practicum Experience (Parts 1 and 2)*
5. Christine Stanton, Jioanna Carjuzaa, Lucia Ricciardelli, Brad Hall, Gerald Gray, Sr., Veronica Willeto  
*Digital Storywork Project for Revitalization of Indigenous Language*
6. Alexandra Adams  
*Promise and Pitfalls of CBPR*

**7:10 - 7:30pm** Break and food

**7:30 – 8:30pm** 20x20 Talks on Compassion in Work and Life

1. Kayte Kaminski - *The Compassion Project*
2. Tia Goebel - *Contemplating Compassion*
3. Lorca Smetana - *Radical Compassion and Social Courage*
4. Kelsey McPherson - *An Exploration into Self-Compassion*
5. Alison Harmon – *\$3 A Day—Building Empathy and Compassion for the Food Insecure*

### **List of Poster Presentations (Organized Thematically)**

#### **Food and Nutrition Systems**

1. Carmen Byker Shanks (MSU-Health & Human Development), Selena Ahmed, Mary Stein, Kate Wright, Sam Blomquist. *Collaborating Cross-sector to Enhance the Sustainability of Montana's Local Food Systems*

2. Carmen Byker Shanks (MSU-Health & Human Development), Katie Bark, and Molly Stenberg. *Smarter Lunchroom Strategies Decrease Vegetable Waste in Montana High School Cafeterias*
3. Carmen Byker Shanks (MSU-Health & Human Development), Katie Bark, and Molly Stenberg. *Smarter Lunchroom Strategies Increases Vegetable Selection at Salad Bars*

### **Improving Education**

1. Gilbert Kalonde (MSU-Education), Fengjen Luo, Bill Ruff. *Native American STEM Teachers' Project*
2. Collen McMilin (MSU-Health & Human Development), Anna Diffenderfer, Coleen Kaiser, Marcy Gaston. *Inter-professional Education: Farm-to-Clinician, a Culinary Medicine Approach to Healthcare*
3. Virginia L. Mohr (MSU-Education). *"Who I Am": Supporting Pre-Service Teacher Integrity Within an Evidence-Based Student Teaching Assessment Program*

### **Family/Children**

1. Jody Marie Bartz (MSU-Health & Human Development). *All means ALL: Family Participation within the Medical Home.*
2. Kalli B. Decker (MSU-Health & Human Development) with Jacie Meldrum, Emma Williams, Alexandra Corcoran, Kami Horner, Ellerey Jorgensen, Makenzie Fry, Rachel Kepl, Chloe Nease. *Past, present, and future community-centered early intervention research in Montana*
3. Megkian Doyle (MSU-TRiO) with members of the Raising Places Team and Community of Lodge Grass, Montana. *Becoming a Child-Centered Community through a Social-Labs Process*

### **Life Challenges**

1. Lauren Dotson Davis (MSU-Education), Rebecca Buchanan. *The Case for Trauma-Informed Care: Perspectives and Approaches in Rural Education*
2. Edward T. Dunbar (MSU-Health & Human Development) and Holly Priscu. *Good Neighbors Transitional Care Pilot Program*
3. Katie Landis (MSU-Nursing), Laura Larsson, Emily Salois. *Trauma Awareness and Resiliency Training for Opioid Addiction Recovery*
4. Amanda N. Lahiere (MSU-Psychology), Julie A. Gameon, and Monica C. Skewes. *What Is Resilience? Understanding Current Resilience Literature & Exploring Ways to Improve Future Resilience Research*
5. Yoshi Colclough (MSU-Nursing). *The View Changes on Crossing-Over Among American Indians Living on a Reservation*

6. Kara Hurt-Avila (MSU-Health & Human Development) and Joelle Starr. *Maternal Mental Health in Gallatin Valley*
7. Rachel Juel (MSU-Health & Human Development), Mary Stein, Aubree Pierce, Hadley Barnard. *Bounty of the Bridgers Campus Food Pantry Tackles Food Insecurity and Food Waste*
8. Christy Sofianek (MSU-Education, Health & Human Development), Emelyn Albright. *MSU LIFE, Learning Is For Everyone, Scholars*

### **Environmental Health**

1. John Doyle (Little Big Horn College), Larry Kindness, James Realbird, Margaret J. Eggers & Anne K. Camper. *Addressing Disparities in Safe Public Drinking Water on the Crow Reservation in Montana*
2. Margaret J. Eggers (MSU-Center for Biofilm Engineering), John T. Doyle, Myra J. Lefthand, Sara L. Young, Anita L. Moore-Nall, Larry Kindness, Roberta Other Medicine, Timothy E. Ford, Eric Dietrich, Albert E. Parker, Joseph H. Hoover and Anne K. Camper. *Community-engaged cumulative risk assessment of exposure to inorganic well water contaminants, Crow Reservation, Montana*
3. Christine Martin (Little Big Horn College), John Doyle, Sara Young, Myra Left Hand, Mari Eggers, JoRee LaFrance. *Integrating TEK and Climate Change Science to get a better understanding of Climate Change impacts*
4. Christine Martin (Little Big Horn College), Myra Lefthand, John Doyle, Vanessa Simonds, Margaret Eggers. *Perceptions of Safe Water*
5. Vanessa Simonds (MSU-Health & Human Development), Deb LaVeaux, Frances L. Kim, Jason D. Cummins, Christine Martin. *Guardians of the Living Water: Apsáalooke (Crow Indian) Children as Change Agents in their Community*
6. Stephanie Davison (MSU-Extension). *Linking Youth to Agricultural and Environmental Practices Using STEM Technologies*

### **Serving/Building Communities**

1. Michael Everts (MSU Architecture), Elizabeth Bird, The Fort Peck Pté Group. *Inspiring Collaborative Ownership in Design of the Bahá Tata'ga ("Buffalo Hills" in Assiniboine) / O'makaskan ("All that walk on the Earth" in Sioux) Trail on the Fort Peck Tribes' Buffalo Ranch*
2. Rebekah VanWieren (MSU-Plant Sciences & Plant Pathology), Diana Hammer, Ashleigh Weeks, Students in HORT 432 Advanced Landscape Design in Fall 2017, Participants from Fort Peck Tribes community. *Envisioning Community with Green Infrastructure: Revitalizing Community and*
3. Christopher Livingston (MSU-Architecture). *Destination Zawiya Ahansal: Community Determined Design-Build Projects In The High Atlas Mountains Of Morocco*

4. Tara Mastel (MSU-Extension), Micky Zurcher, Tom Harrington, Daniel Clark. *Community Rebranding: Making Boulder's Future Bright*
5. Mary Anne Hansen (MSU-Library). *The Tribal College Librarians Professional Development Institute: Building a Network of Librarians to Grow and Strengthen Lifelong Learning Communities in Tribal Lands*

### **CBPR**

1. Alexandra Adams (MSU-CAIRHE), Sue Higgins, James Burroughs. *Center for American Indian and Rural Health Equity*
2. Laurel Fimbel (MSU-Health & Human Development), Mark Schure, Suzanne Held, Shannen Keene, Mikayla Pitts. *Messengers for Health Báa nnilah program: Evaluating strategies for program adherence and participant retention in a randomized controlled trial of a chronic illness management program for Apsaalooke tribal members*
3. Shannen Keene (MSU-Health & Human Development), Alma Knows His Gun McCormick, Suzanne Held, Lucille Other Medicine, Mark Schure, Mikayla Pitts, Laurel Fimbel. *Monitoring Treatment Fidelity in an Indigenous Chronic Illness Self-Management Program*
4. Mikayla Pitts (MSU-Health & Human Development), Suzanne Held, Alma Knows His Gun McCormick, Mark Schure. *Messengers for Health Baá nnilah program: Understanding community context when recruiting study participants in an American Indian community*
5. Reisa A. Walker (MSU-Nursing), Laura S. Larsson. *Improving Oral Health Literacy in Cheyenne Country*

### **Indigeneity**

1. Matt Herman (MSU-Native American Studies). *'At the Level of Ideas': Indigenous Documentary Film as/and Indigenous Research*
2. Julie H. Alexander-Ruff (MSU-Nursing). *Partnering with Indigenous Community to Facilitate Cultural Consciousness*

# **The Center for Bilingual and Multicultural Education**

## **Annual Report**

**October 1, 2019**

**Prepared by Jioanna Carjuzaa, Ph.D.**

### **I. Mission**

The Center for Bilingual and Multicultural Education (CBME) has been revitalized to support the Montana State University (MSU) community and tribal nations across Montana by generating multiple funding streams focusing on the following program areas: revitalization and maintenance of Indigenous languages, facilitation of culturally responsive pedagogy in k-12 schools including the integration of Indian Education for All across the curriculum in all content areas and at all levels, academic support for American Indian English Language Learners, as well as a variety of projects designed to promote social justice by increasing cultural sensitivity.

### **II. Website**

<http://www.montana.edu/carjuzaa/cbme/cbme.html>

### **III. Staff**

Dr. Jioanna Carjuzaa, Executive Director

Dr. William Ruff, Associate Director

Nancy Hystad, Program Coordinator

Kayce Williams, Technology Coach

CBME Student Workers: Alisha Fisher, Jeb Fullinwider, Enkhchimeg Sharav, Angel Soperanez

### **IV. Affiliate Members**

Dr. Gilbert Kalonde

Janelle Rasmussen

Dr. Lucia Ricciardelli

Dr. Christine Stanton

Kayce Williams

### **V. Activities/Outreach**

**CBME Open Houses** – plan and host open houses on Thursday, September 6, 2018, Thursday, January 31, 2019, and Thursday, September 19, 2019. Ongoing – Open Houses will be held each semester.

**SINE Meetings** -- bi-weekly SINE meetings, ASMSU student organization registration and grant proposals, recruiting efforts, coordination with the Society of American Indian Graduate Students (SAIGS) and American Indian Council (AIC) members, conference proposal writing/attendance/presentations, Catapalooza booth, fundraising activities for conference attendance with current and graduated members, etc.

**Programming for Education Students:** In addition to our fall and spring open houses and bi-weekly SINE meetings as well as our collaboration with SAIGS and AIC, we also held several Thursday meetings open to all students where the students and I presented sessions on: Powwows Etiquette, MSU Trivia, a Book Discussion on Herbert Kohl’s “I Won’t Learn from You”, an IEFA discussion, Native films, Bingo, etc. during the spring 2019 semester.

Participate in The Resilience Center workshop on September 26, 2018, to explore how the 10 resiliency modules can be used in mentoring programs with American Indian and other students.

**Fall 2019 Scheduled CBME Programming:**

**Tech Tuesdays**

<u>Date</u>	<u>Event</u>
Sept. 17 <sup>th</sup>	Flipgrid
Oct. 1 <sup>st</sup>	QR Codes
Oct. 15 <sup>th</sup>	Dungeons and Dragons In the classroom
Oct. 29 <sup>th</sup>	Chatterbox
Nov. 5 <sup>th</sup>	Keyboard Shortcuts
Nov. 19 <sup>th</sup>	Digital Storytelling/Editing Part 1
Nov. 26 <sup>th</sup>	Digital Storytelling/Editing Part 2

**Get-Together Thursdays**

<u>Date</u>	<u>Event</u>
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Sept. 12 <sup>th</sup>	BINGO
Sept. 26 <sup>th</sup>	Indians 101
Oct. 10 <sup>th</sup>	MSU Trivia
Oct. 24 <sup>th</sup>	IEFA Professional Development
Nov. 14 <sup>th</sup>	Foldables

Hosted Marion Mongel, French doctoral candidate at La Sorbonne University, Paris, France to discuss Indian Education for All the week of January 21-26, 2019. Ongoing discussions on her research and opportunities for collaboration.

Met with Dr. Mark Trotter, Associate Director, Russian and East European Institute, Hamilton Lugar School of Global and International Studies, Indian State University-Bloomington, IN, Tuesday, April 30<sup>th</sup> and Wednesday, May 1<sup>st</sup>, 2019. Ongoing discussions on opportunities for collaboration.

Hosted University of Nebraska-Lincoln and Nebraska Indian Education Association delegation –

17 members including Dr. John Raible, Dr. Colette Yellow Robe and Jim Benes, Global Exchange Coordinator, Friday, June 21, 2019. Ongoing discussions on opportunities for collaboration.

Montana WIDA Standards Validation Workshop – invited to participate on the panel to decide on exit process and cut score on WIDA Access 2.0 Assessment for English Language Learners, OPI, Helena, Thursday, August 8<sup>th</sup> and Thursday, August 29<sup>th</sup>, 2019.

Met with Dr. Crystal Redgrave, former Curriculum Director at St. Labre on her Indigenous Education Model, Language Revitalization teaching strategies, Friday, August 30, 2019. Ongoing discussions on opportunities for collaboration.

Summer 2019, planning meetings for American Indian Heritage Day events scheduled for, Friday, September 27<sup>th</sup> and halftime at MSU/University of Arizona football game on Saturday, September 28<sup>th</sup>, 2019.

Summer 2019, planning meetings for Indian Education for All Professional Development workshop, scheduled for Thursday, October 24, 2019.

Cross-cultural exchange with Centro Colombo Americano directors Daniel Valderrama and Luz Libia Rey and their members as well as with Cabildo Musica tribal members. Scheduled weekly ZOOM meetings. Ongoing discussions on opportunities for collaboration.

## **VI. Scholarship**

### **Grants:**

Ongoing grant management of Office of English Language Acquisition (OELA) National Professional Development (NPD) grant, MontTELLs. (Fall 2018, Spring 2019, Summer 2019, Fall 2019, ongoing through Summer 2020).

Ongoing grant management of Fulbright TEA Fellows grant with Janelle Rasmussen, International Research Exchange (IREX), U.S. Department of Education. (Fall 2018, Spring 2019, Summer 2019, Fall 2019, ongoing through Fall 2020).

Awarded \$6,550 from College of EHHD, Spring 2019 - planned, hosted and presented at the Class 7 Professional Development Conference, in Bozeman on Saturday, May 11, 2019.

Hosted Indigenous language scholars I had invited to the Spencer Foundation Grant Class 7 conference in Summer 2016 and to contribute to the *Cogent Education* Special Issue on Indigenous Language Revitalization and participate in the Webinar series, to present at the American Indian Heritage Day celebration and my Indian Education for All professional development workshop. I invited and hosted the eight scholars and provided the opportunities for them to also present at and attend the Council of Elders meetings, Thursday, September 27, 2018 and Friday, September 28, 2018. Indigenous Language Revitalization, \$8,165.12 grant funds from the Office of the President helped cover their travel and other expenses.

CFAC/EFAC grant proposal – equipment for the CBME, awarded, \$2,013.00, September 2019.

Ongoing collaboration with Turtle Mountain and Little Shell tribes to receive the necessary support to create and nurture a requisite teaching corps of Chippewa teachers through a Montana Indian Language Program (MILP) grant. (Fall 2018, Spring 2019, Summer 2019, Fall 2019, ongoing through Summer 2020).

Ongoing work on other grants to support Advisory Council members' efforts to secure funding for Indigenous language preservation and other CBME projects.

### **Presentations:**

National Indian Education Association (NIEA) Convention, Hartford, Connecticut, presentation - NDN Enough To Be The Token - Too NDN To Teach with 5 SINE members, October 13, 2018.

National Association for Multicultural Education (NAME), Memphis, TN presentation - Beyond Thoughts and Prayers: What Can We do to Support Students – and Ourselves – When Tragedy Strikes?, November 28, 2018. Presented with Dr. Jan Perry Evenstad,

National Association for Multicultural Education (NAME), Memphis, TN presentation - Confronting Whiteness as Allies and Professors, November 30, 2019. Presented with Dr. David Henderson.

Presentation: Preparing Regular Classroom Teachers to Meet the Needs of American Indian English Language Learners, presented at Athens Institute for Research and Education ATINER, Athens, Greece, Thursday, May 23, 2019.

Presentation: Who am I?: Creating My Life Story in Six Words, Key Practices to Empower Students: Teaching, Technology and Engagement, invited to present by Fulbright Colombia and the International Research Exchange (IREX), U.S. Department of Education, Bogota, Colombia, August 19, 2019.

### **Publications:**

Rogers Stanton, C.; Carjuzaa, J. & Hall, B. (2019). The promises, purposes, and possibilities of Montana's Indian Education for All, *Journal of American Indian Education*, (58) 3, 78-104.

Carjuzaa, J., Mendoza, W. & Bradley, T. (2019). The Making of Relatives: Creating a home away from Home for American Indian Pre-service Teachers at a Predominately White Institution, *Interdisciplinary Education and Psychology*, in press.

Rogers Stanton, C., Hall, B. & Carjuzaa, J. (2018). The Digital Storywork Partnership: Community-Centered social studies to revitalize Indigenous histories and cultural knowledges, *Journal of Social Studies Research*, (43) 2.

### **VII. Teaching**

EDU 511, EDU 512, EDU 513 and EDU 514 offered **Summer 2019** for MontTELLs grant participants -- **EDU 511 Teaching Culturally and Linguistically Diverse K-12 Students, EDU 512 Literacy Development for Culturally & Linguistically Diverse K-12 Students, EDU 513 Assessment of English Language Learners, and EDU 514 Culturally Responsive Pedagogy.**

EDLD 592 Advanced Research on Sheltered Instruction, offered Summer 2019.

EDCI 580 Middle Level/Secondary Level Teaching and EFL Methodologies, offered Fall 2018 for TEA Fellows

EDCI 580 Middle Level/Secondary Level Teaching and EFL Methodologies, offered Fall 2019 for Fulbright TEA Fellows

### **VIII. Communication with stakeholders**

Advisory Council Meetings, Monday, April 29, 2019, next one scheduled for Monday, October 21, 2019

Attendance at annual Montana Indian Education Association Conferences –March 29-30, 2019.

Participation in annual AIC MSU Powwow, March 29-30, 2019.

Council of American Indian Programs (CAIP) – ongoing participation/leadership.

Correspondence with Phyllis Yeager, Phyllis Yeager Promotions, LLC. On language revitalization grants through the Lewis and Clark Trail Heritage Foundation offers [www.lewisandclark.org](http://www.lewisandclark.org).

### **Media Appearances and Interviews:**

American Indian Heritage Day, MSU Office of the President,

[Msu-students@listserv.montana.edu](mailto:Msu-students@listserv.montana.edu) ; [msu-faculty-staff@listserv.montana.edu](mailto:msu-faculty-staff@listserv.montana.edu)

MSU American Indian Heritage Day Sept. 27-28 highlights Indian artists and creativity, MSU News Service, Carol Schmidt

<https://www.montana.edu/news/19013/msu-american-indian-heritage-day-sept-27-28-highlights-indian-artists-and-creativity>

MSU professor chosen to speak at international workshop, Meaghan MacDonald, MSU News Service

<https://www.montana.edu/news/18871/msu-professor-chosen-to-speak-at-international-workshop>

What if language dies?, Karen Funke, ED employees [ed\\_employeecontactlist@sympa.montana.edu](mailto:ed_employeecontactlist@sympa.montana.edu) ;  
HHD Employee contact list [hhd\\_employeecontactlist@sympa.montana.edu](mailto:hhd_employeecontactlist@sympa.montana.edu)

To Save Their Endangered Language, 2 Cherokee Brothers Learn As They Teach, NPR, Interviewed by author, Liz Schlemmer Fletcher Fellow for Education Policy Reporting

<https://www.npr.org/2018/12/24/674509385/to-save-their-endangered-language-2-cherokee-brothers-learn-as-they-teach>

Indigenous languages are focus of MSU American Indian Heritage Day observance Sept. 27-28, MSU NEWS SERVICE

<http://www.montana.edu/news/17972/indigenous-languages-are-focus-of-msu-american-indian-heritage-day-observan>

American Indian Heritage Day PSA.mp3, KGLT-MSU Announcements, Invitation by Brodie Cates/KGLT production – script

# Center for Research on Rural Education (CRRE)

## 2018-2019 Annual Report

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### Mission of the CRRE

The mission of the CRRE <http://www.montana.edu/crre/> is to collaborate with Montana's rural PK-12 schools/districts, universities, tribal colleges, and state agencies to conduct and disseminate research and service to support and strengthen rural education and leadership in the state of Montana, the nation, and across the globe.

### Affiliated Faculty & Graduate Students

1. Jayne Downey, PhD
2. Tena Versland, EdD
3. Ann Ewbank, PhD
4. Jennie Luebeck, EdD
5. Megan Wickstrom, PhD
6. Sarah Schmitt-Wilson, PhD
7. Nigel Waterton, EdD
8. Heather Fisher, EdD
9. Angie Weikert
10. Elaine Westbrook

It is our firm belief that nothing is more central to Montana's future than sustaining and strengthening the quality of our P-20 system of education. Given that 75% of Montana's schools and 96% of our districts are classified as small rural (Johnson, Showalter, Klein, & Lester, 2014), the CRRE is committed to filling a critical need for rigorous educational research and service in support of Montana's rural schools and communities as they seek to provide a high quality education for every child.

### IMPACT: CRRE Research & Scholarship 2018-2019

Grants Submitted in Collaboration with Montana's Rural Schools and Agencies in Support of CRRE Rural Service and Research

1. Elliot, A., **Downey, J.**, Koltz, R., & Murray, K. (2019-2024). *Rural Mental Health Preparation/Practice Pathway: An Innovative Partnership to Prepare Rural School-Based Mental Health Services Providers*. Proposal submitted to the U.S. Department of Education, Mental Health Service Professional Demonstration Grant Program. \$2,347,934 pending.
2. **Ewbank, A., Downey, J., Luebeck, J., & Seifert, T.** (2019-2024). *Addressing Rural Recruitment and Retention in Montana*. Proposal submitted to the U.S. Department of Education, Office of Elementary and Secondary Education, Teacher Quality Partnership Grant Program. \$3,118,072 funded (100% match).
3. **Downey, J.**, Lachowiec, J., Plymesser, K., & Willoughby, S. (2019-2021). *Girls in Rural Learn STEM (GIRLS)*. Proposal to the National Science Foundation (NSF). \$299,364 not funded.
4. Brenner, D., Elder, A., Azano, A., **Downey, J., Versland, T.** & Pratt, A. (2019-2024) *National Research and Development Center: National Center for Research Partnerships and Rural Education*. Proposal to the U.S. Department of Education, Institution of Education Sciences: Improving Rural Education. \$9,999,920 not funded.
5. **Downey, J., Luebeck, J., Versland, T., Ewbank, A., Wickstorm, M., Waterton, N., & Schmitt-Wilson, S.** (2018-2019). *Building Capacity, Collaboration, and Innovation in Rural Education Research and Practice*. Proposal submitted to the MSU Vice President for Research. \$97,294 funded.
6. Johnson, R., **Downey, J.**, Lachapelle, P. Mast, S. Mukhopadhy, J., Ricciardelli, L., & Seifert, T. (2018). *Prototype Housing for Rural School Districts*. Proposal to the MSU Vice President for Research \$18,298 requested; \$15,000 funded.
7. Aiken, E. & **Downey, J.** (2018). *CEEDAR Support for Montana's Higher Education Consortium*. Proposal submitted to the CEEDAR Center, University of Florida. \$25,000 funded.
8. **Downey, J.** (2018) *Innovative Technology to Transform Rural Teacher Preparation, Recruitment, and Retention*. Proposal submitted to the College of Education, Health, an Human Development Transformational Teaching Grant. \$3916 funded.
9. **Downey, J.** (2018). *Rural Lessons: Early Career Teachers in Rural Contexts Share Advice for Teacher Preparation Programs, Professors, and Future Rural Teachers*. Proposal submitted to the MSU Vice President for Research. \$11,308 requested; \$7693 funded.
10. Johnson, R., Mukhopadhy, J., Amende, K., **Downey, J.**, & Seifert, T. (2018-2020). *Prototype Housing for Rural School Districts Research and Commercialization Grant*. Proposal to the Montana Board of Research and Commercialization Technology, Montana Department of Commerce. \$160,000 not funded.
11. **Downey, J.** (2018). *Strengthening the Preparation of Teachers, Leaders, and Teacher Educators for Rural and Remote Contexts*. Faculty Excellence Grant, Montana State University, Center for Faculty Excellence. \$4,974 funded.

#### Publications to Disseminate Rural Education Research Findings

1. White, S. & **Downey, J.** (Eds.) (forthcoming/under contract). *Rural Education across the World: Models of Innovative Practice and Impact*. Singapore: Springer Nature.

2. Azano, A., Brenner, D., **Downey, J.**, Eppley, K., & Schulte, A. (forthcoming/under contract). *Teaching in Rural Places: Thriving in Classrooms, Schools, and Communities*. New York, NY: Routledge.
3. **Downey, J.** (accepted for publication). The rural community walk: A structured learning experience for understanding place. In P. Roberts & M. Fuqua (Eds.) *"Ruraling" Education Research*. Singapore: Springer Science+Business Media.
4. **Schmitt-Wilson, S., Downey, J., & Beck, A.** (2018). Rural educational attainment: The importance of context. *Journal of Research in Rural Education*, 33, 1, 1-14.
5. White, S. & **Downey, J.** (2019). Strengthening rural education: Gathering research from around the globe. *The Rural Educator*, 40, 2, 1-3.
6. Reading, C., Khupe, C., Redford, M., Wallin, D., **Versland, T.**, Taylor, N., & Hampton, P. (2019). Educating for Sustainability in Remote Locations, *The Rural Educator*, 40, 2, 43-53.
7. Azano, A., **Downey, J.**, & Brenner, D. (2019). [Preparing pre-service teachers for rural schools](#). In *Oxford Research Encyclopedia of Education*. Oxford University Press. doi: <http://dx.doi.org/10.1093/acrefore/9780190264093.013.274>
8. Ledger, S. & **Downey, J.** (2018). Aligning AIJRE research with the Independent Review into Regional, Rural and Remote Education. *Australian and International Journal of Rural Education*, 28, 1, 1-6.

### Research Presentations to Disseminate Rural Education Research Findings

1. Byun, S., & **Schmitt-Wilson, S.** (2019). *Rural/Nonrural Differences in School-to-Work Transition Outcomes*. Paper presented at the meeting of the AERA, Toronto, Canada.
2. **Weikert, A.** & Moore, S. (2019). *Reaching Rural Students through Partnerships*. National Association for Interpretation National Conference, Denver, CO
3. **Luebeck, J.** & Roscoe, M. (2019). *Transforming Professional Development for Isolated Teachers through Blended Face-to-Face and Online Learning*. Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
4. **Luebeck, J.** & Roscoe, M. (2019). *Reforming Modeling Education: Mathematics Modeling Initiative*. Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
5. **Luebeck, J.** & Roscoe, M. (2019). *Creating Opportunities to Learn for Rural and Isolated Teachers*. Presented at the National Council of Supervisors of Mathematics Annual Conference, San Diego, CA.
6. **Downey, J.** (2018). *Outcomes of a rural field experience for preservice teachers: Surprises, understandings, connections, and joy*. Presented at the annual meeting of the Australian Association for Research in Education, Sydney, AU.
7. **Downey, J.**, Hill, M., Mitchell, R., & Schaefer, V. (2018). *Addressing the challenges of teacher recruitment and retention in rural districts*. Presented at the National Forum to Advance Rural Education at the annual meeting of the National Rural Education Association, Denver, CO.
8. **Downey, J. & Waterton, N.** (2018). *Rural lessons: Early career teachers in rural contexts share advice for teacher preparation programs, professors, and future rural teachers*. Presented at the National Forum to Advance Rural Education at the annual meeting of the National Rural Education Association, Denver, CO.
9. Schaefer, V., **Downey, J.**, Pratt, A., Smith-Woofter, M., Wnek, P. (2018). *Rural teacher recruitment and retention*. Plenary presentation at the annual meeting of the Ted Andrews Winter Symposium of the National Association of State Directors of Teacher Education and Certification, San Diego, CA.

## Invited Presentations Addressing Issues & Challenges in Rural Education

1. **Downey, J.** (2019). *Becoming a successful rural scholar*. Invited keynote address for the International Emerging Rural Scholars Summit, Brisbane, Australia.
2. **Downey, J.** (2019). *Global and political perspectives: Working cross-nationally to address rural education issues*. International Plenary Panel. To be presented at the 35th National Conference of the Society for Provision of Education in Rural Australia, Brisbane, Australia.
3. **Downey, J. & Fisher, H.** (2019) *Writing instruction in Montana's middle schools: The importance of context*. Presented at the annual Montana Data Use Conference, Helena, MT.
4. **Downey, J.** (2019). *Rural teacher recruitment and retention: The importance of context*. Presented at Evidence and Education: Linking Research, Policy, and Practice to Enhance K-12 Education, Education Policy Conference, Montana State University, Bozeman, MT.
5. **Downey, J.** (2019). *Preparing teachers for Montana's rural communities: The power of partnerships*. Presented at the Montana State University 10x10 Innovation Roadshow, Bozeman, MT.
6. **Downey, J.** (2019). *Preparing teachers for rural communities: Insights from around the globe*. Presented at College of Education, Health, & Human Development International Brownbag, Montana State University, Bozeman, MT.
7. **Downey, J.** (2018). *The important role of place and partnerships in U.S. rural education*. Invited keynote address for the 34th National Conference of Society for Provision of Education in Rural Australia, Perth, Australia.
8. **Downey, J.** (2018). *Rural education in Montana and beyond: Realities, relationships, and research*. Presented at Montana State University, Bozeman, MT.

## IMPACT: CRRE Service & Outreach 2018-2019

### Academic Programs for Rural Teacher Preparation

1. Continuation and development of the Rural Colloquium
2. Continuation and development of Rural Student Teaching
3. Continuation and development of Rural Practicum
4. Continuation and development of Rural Field Experience
5. Support for the development of the MAT degree program

### Technical Reports in Support of Rural Schools & Organizations

1. **Downey, J., Johnson, J., Painter, J., Harris, M.** (2019). *External Review Committee Report for the Rural Education Institute, 5-Year Comprehensive Review* prepared on behalf of East Carolina University, Greenville, NC.
2. **Painter, J., Downey, J., Johnson, J., Harris, M.** (2019). *External Review Committee Report for the Center for STEM Education, 5-Year Comprehensive Review* prepared on behalf of East Carolina University, Greenville, NC.

## CRRE National and International Leadership 2018-2019

1. Launch of the Rural Education International Research Alliance (REIRA) <https://reira.co>.
  - An international research alliance focused on improving the learning and wellbeing of rural students, their teachers, and school communities.
  - Building research collaborations across the globe to influence policy and practice
  - Connecting international researchers to a range of research support, other researchers and associations dedicated to rural education
  - Bringing together global evidence to best inform and enable future policy and practice to meet the needs of all rural students, their families, and communities
2. Hosting of the International Symposium for Innovation in Rural Education (ISFIRE) 2018 <http://www.montana.edu/crre/isfire2018/index.html>
3. Editorship of the Australian and International Journal on Rural Education <https://www.spera.asn.au/research/journals/>
4. Executive Committee Member, National Rural Education Association [https://drive.google.com/file/d/1bHGchzNrOgLY2OfWF37UQb\\_V5OhGVvXS/view](https://drive.google.com/file/d/1bHGchzNrOgLY2OfWF37UQb_V5OhGVvXS/view)
5. Executive Committee Member, Society for the Provision of Education in Rural Australia <https://www.spera.asn.au/about-spera/executive-team/>
6. Support for the development of the Emerging Rural Scholars Summit – a research-focused network for graduate students and early career faculty <https://www.spera.asn.au/wordpress/wp-content/uploads/2019/05/Emerging-Rural-Scholars-Summit-2019-FINAL.pdf>
7. Participation in the Rural School-Community Partnership Research Consortium, College of William & Mary <https://education.wm.edu/research/centers-projects/rural/faculty/index.php>
8. Responding to inquiries from newspapers, reporters, community members, school district leaders, and faculty from Teacher Preparation programs regarding issues related to rural education and the preparation of rural teachers
9. Serving as an external reviewer for rural-focused faculty tenure reviews
10. Arranging to host international rural education scholars from New Zealand and Finland

11. Planning and development for the next the International Symposium for Innovation in Rural Education (ISFIRE 2020)

## CRRE Major Objectives for the Coming Year

In alignment with MSU’s Strategic Plan, the CRRE major objectives for the coming year will have a discernible positive impact through transformational rural teaching and learning, improved rural lives and society through scholarship, and mutually beneficial engagement with our rural communities.

### Transformational Teaching and Learning: *Building MSU’s Rural Education Academic Programs*

INTENTIONAL FOCUS 1 Drive Transformational Learning Experiences Creating Exceptional Educational Outcomes for All Students	
Goal	Metric
1.2: Expand high-quality graduate education	<ul style="list-style-type: none"> <li>The CRRE will contribute to the growth of MSU’s graduate education portfolio.</li> <li>The CRRE will work to increase the number of externally funded GRA appointments, aligned with the <i>Caring for our Communities</i> Grand Challenge.</li> <li>The CRRE will help to increase the number of research doctoral degrees and Master’s degrees awarded annually.</li> </ul>
1.3: Implement established high quality, high impact teaching and learning practices for every student	<ul style="list-style-type: none"> <li>The CRRE will provide MSU pre-service teachers with sustained curricular high quality, high impact practice, demonstrated to positively affect educational or personal development.</li> </ul>

### Improved Lives and Society through Scholarship: *Building MSU’s Rural Research Capacity*

INTENTIONAL FOCUS 2 Improve Lives and Society through Research, Creativity, and Scholarship	
Goal	Metric
2.1: Enhance the significance and impact of scholarship	<ul style="list-style-type: none"> <li>The CRRE will contribute to the <i>Caring for our Communities</i> Grand Challenges of Montana through research responsive to regional and</li> </ul>

	global needs, improving access and equity in education and health outcomes, and community-based participatory research.
<b>2.2: Expand interdisciplinary scholarship</b>	<ul style="list-style-type: none"> <li>• Through its interdisciplinary collaboration, the CRRE will contribute to an increase the number of scholarly products that are authored or created by faculty from two or more academic units.</li> </ul>
<b>2.3: Strengthen institutional reputation in scholarship</b>	<ul style="list-style-type: none"> <li>• CRRE will help to increase the number of faculty with memberships among rural national academies, professional society fellows and state/federal/international advisory committees.</li> <li>• The CRRE will help MSU increase its number of international projects and collaborations.</li> </ul>
<b>2.4: Elevate expectations for scholarship</b>	<ul style="list-style-type: none"> <li>• The CRRE will contribute to an increase in the number publications, presentations of creative works, translational research and creative activity and other evidence of dissemination of scholarship.</li> <li>• The CRRE will help to increase the number of research faculty, research staff, post-docs and graduate students funded on external contracts and grants.</li> </ul>

**Mutually Beneficial Engagement with our Communities:**  
*Building A Network of State, National, and International Rural Researchers*

<b>INTENTIONAL FOCUS 3</b>	
<b>Expand Mutually Beneficial and Responsive Engagement for the Advancement of Montana</b>	
<b>Goal</b>	<b>Metric</b>
<b>3.2: Grow mutually beneficial partnerships across Montana</b>	<ul style="list-style-type: none"> <li>• The CRRE will expand MSU’s responsive partnerships with state and local government, education, business and industry and non-profit organizations.</li> <li>• The CRRE will strengthen structures for Montana stakeholders to contribute to the research and engagement agenda of the university.</li> <li>• The CRRE will support new workforce and academic degree programs tailored to rural state and regional needs with attention to national trends.</li> </ul>

# Science Math Resource Center

## 2018 Annual Report

submitted by Suzi Taylor, 9/30/19

### Mission of Center:

Science literacy provides the foundation for a competitive and creative workforce and collective well-being. The Science Math Resource Center (SMRC) is committed to promoting teaching and learning excellence in K-12 formal and informal settings in the State of Montana. In collaboration with other state science, technology, engineering, and mathematics (STEM) educational organizations, the Center will deliver professional development for educators, offering programs that address STEM content, community culture, instructional approaches of current educational reforms, and the development of leadership skills among educators. Additionally, the Center will develop and deliver STEM education and outreach programs for youth.

### Website address:

<http://www.montana.edu/smrc>

### Key Staff:

1. Suzi Taylor, Director
2. Dr. Fenqjen Luo, Assistant Director
3. Ehsan Salam, Program Coordinator

### Affiliated Faculty:

1. Dr. Tricia Seifert, Associate Professor & Department Head, Department of Education
2. Dr. Fenqjen Luo, Associate Professor, Department of Education
3. Dr. Rebekah Hammack, Assistant Professor, Department of Education

### The Center's accomplishments in 2018 include:

#### Professional Development for Educators:

**Science of School Gardens Workshop for K– 8 educators, July 18-19, 2018.** The Center organized a summer workshop for K– 8 educators about the Science of School Gardens in collaboration with Gallatin Valley Farm to School and Farm to School of Park County. This hands-on learning opportunity for teachers covered the basics of planning, planting and maintaining school gardens, greenhouses and aquaponics systems. The first day of the workshop was held in Bozeman and the second day in Livingston. Both days were with demonstration lessons and activities.

**Workshop on Engineering Design for K-5 Classrooms, August 15-16, 2018.** This workshop for teachers covered the basics of engineering design and how to incorporate engineering activities into the elementary classroom. Participation included 12 OPI renewal units, travel expense reimbursement, MSU dorm room equivalent housing costs, and per diem. For more information visit: <http://www.montana.edu/smrc/profdev.html>

## **STEM Programs for Youth**

1. Math Competitions: The Science Math Resource Center hosts the American Mathematics Competitions (AMC) for middle and high school students. The competitions involve timed mathematics examinations designed to promote the development and enhancement of problem-solving skills. The SMRC organizes the competitions and offers prizes to the top scorers. The AMC 10/12 is the first in a series of competitions that eventually lead all the way to the [International Mathematical Olympiad](#).

2018 competitions included:

- a) American Mathematics Competitions 8 - AMC 8, November 12, 2018
  - b) American Mathematics Competitions 10/12B- AMC 10/12, February 13, 2018
2. Montana Science Olympiad: November 20, 2018. The Science Olympiad is SMRC's largest annual event and serves more than 1,200 youth and their teacher-coaches, many from Montana's rural and reservation communities.

Please visit: <https://www.montana.edu/news/18194/msu-hosts-more-than-100-junior-high-and-high-school-teams-at-annual-montana-science-olympiad>

## **Goals and Objectives for 2019 (and beyond):**

In 2019, the Center will expand its capacity to serve Montana's schools, teachers, youth and communities through the following activities:

- Hire a new full-time director
- Partner with School Services of Montana to co-host the Science Summer Institute serving K-12 teachers and administrators; move the annual meeting to the MSU campus in order to maximize university connections and increase attendance.
- Host an additional professional development workshop for K-12 and out-of-school educators — Citizen Science and the Lewis & Clark Trail.
- With SSOM and the Montana Afterschool Alliance, co-host the second annual statewide STEM Summit on the MSU campus. SMRC will also serve as leader for post-Summit follow-up efforts.
- Partner with MSU faculty to deliver outreach programming tied to the Montana NSF EPSCoR program and the NASA Aerokats and Rovers Education Network.

- Assume administrative and financial leadership for the statewide Montana Girls STEM Collaborative.
- Provide active enrichment activities to mathematically talented middle and high school students in the Gallatin Valley and its surrounding rural communities.
- Develop a portfolio of opportunities through which MSU research faculty can partner with the Science Math Research Center; as such, support faculty through outreach consultations and letters of collaboration.

In the years to come, the Center will continue to:

- Develop a rich portfolio of STEM education and outreach projects that serve Montana's schools, citizens and communities while offering opportunities for MSU students, staff and faculty to be involved in outreach and engagement. These activities will focus in particular on expanding opportunities and growth for EHHD's pre-service teachers.
- Build connections with other STEM programs throughout Montana and beyond, working with K-12 schools, informal education organizations, industry, state government, and other collaborators to define and grow a statewide network that supports STEM education and outreach.
- Collaborate with MSU faculty and other partners to seek out and pursue new funding opportunities and to maximize available resources. Create a strategic plan for growth and financial sustainability for the SMRC office and programs.



## Education

**DEPARTMENTAL PRODUCTIVITY REPORT: January 1, 2018 – October 1, 2019**

### RESEARCH AND SCHOLARLY/CREATIVE ACTIVITY

#### A. Departmental Evaluation of Research and Creative Activities

This has been an outstanding year of scholarly and creative output among the full-time tenure/tenure-track and non-tenure track faculty in the Department of Education. Specifically, this report details

23 peer-review journal articles

10 faculty had media contributions

7 other reviewed and non-reviewed materials

14 Reviewed and Non-Reviewed Abstracts and Conference Proceedings of Papers

3 Technical reports

14 Conference keynote/plenary addresses

79 Conference oral presentations

36 Conference papers

12 Conference posters

12 Conference demonstrations

16 Local university and classroom lectures

15 faculty members are associated with grant-funded projects

## B. Publications

### 1. Refereed Publications

#### a. Peer-Reviewed Journal Articles

1. Arnold, C., & Seifert, T. (2019). Motivations and behaviours driving cross-campus partnerships: What we have learned about what it takes to work together. *Communique*, 19(1), 17-20. [https://www.cacuss.ca/files/Communique/Communique\\_Spring2019\\_19i\\_Web\\_HiRes.pdf](https://www.cacuss.ca/files/Communique/Communique_Spring2019_19i_Web_HiRes.pdf)
2. Ellsworth, A., & Romeo, L. (2018) Children's Literature to Support Classroom Diversity. *Literacy Voices*, 23(1), 11. [www.montanareads.org](http://www.montanareads.org)
3. Herbeck, J. (2018). 2018 Charlotte Huck Award for Outstanding Fiction for Children. *Language Arts*, 96(2), 119-126.
4. Hughes, B. E., & Hurtado, S. (2018). Thinking About Sexual Orientation: College Experiences that Predict Identity Salience. *Journal of College Student Development*, 59(3), 309-326.
5. Hughes, B. E. (2018). Resilience of Grassroots Leaders Involved in LGBT Issues at a Catholic University. *Journal of Student Affairs Research and Practice*, 55(2), 123-136.
6. Hughes, B. E. (2018). Coming Out in STEM: Factors Affecting Retention of Sexual Minority STEM Students. *Science Advances*, 4(3), 5. <http://advances.sciencemag.org/content/4/3/eaao6373.full>
7. Johnson, C. M., Myers, C. B., Ward, K. A., Hollist, D., & Sanyal, N. (2018). American Indian/Alaska Native Graduate Students: Fostering Indigenous Perspectives in STEM. *Journal of American Indian Education*, 56(3), 34-58.
8. Ledger, S., & Downey, J. (2018). Aligning AIJRE research with the Independent Review into Regional, Rural and Remote Education. *Australian and International Journal of Rural Education*, 28(1), 1-6. <https://journal.spera.asn.au/index.php/AIJRE/article/view/217>
9. Mitchell, R., Wynhoff Olsen, A., Hampton, P., Hicks, J., Long, D., & Olsen, K. W. (2019). Rural Exposure: An examination of rural fieldwork opportunities and methodologies in three universities in the U.S. and Australia. *The Rural Educator*, 40(2), 12-22.

<https://journals.library.msstate.edu/index.php/ruraled/article/view/847>

10. Myers, C., & Myers, S. (2018). Assessing the Impact of a Dual Enrollment Policy on Undergraduate Graduation Rates in the United States: An Institutional and Cohort Approach Using the 2006– 2014 IPEDS. *Research & Practice in Assessment, 12*, 5-17.
11. Myers, S., & Myers, C. (2018). Recognizing, Accepting, and Incorporating the Strengths and Weaknesses of Secondary Data and Analysis: Studying How Family Life Influences the Teaching Practices of Higher Education Faculty. *Sage Research Method Cases*.
12. Oliveri, C., Funke, K., Clark, J., & Seifert, T. (2018). Blueprints for student success: High school students' questions about the transition to college. *Journal of College Orientation & Transition, 25*(1), 43-59.
13. Pennington, S. E. (2018). Language arts classroom practices and early adolescents' needs: A comparison of student and teacher perceptions. *Middle Grades Research Journal, 11*(2), 117-127.
14. Peregrina-Kretz, D., Seifert, T., Arnold, C. H., & Burrow, J. (2018). Finding their way in postsecondary education: The power of peers as connectors, coaches, co-constructors and copycat. *Higher Education Research & Development, 37*(5), 1076-1090.
15. Reckinger, S., & Hughes, B. E. (2018). Formative Assessment Design in a MATLAB Programming Course for Mechanical Engineering Students. *International Journal of Mechanical Engineering Education, 46*(4), 362-374.
16. Schmitt-Wilson, S., Downey, J. A., & Beck, A. (2018). Rural educational attainment: The importance of context. *Journal of Research in Rural Education, 33*(1), 1-14.
17. Stanton, C., Hall, B., & Carjuzaa, J. (2019). The Digital Storywork Partnership: Community-Centered social studies to revitalize Indigenous histories and cultural knowledges. *Journal of Social Studies Research, 43*(2), 97-108.
18. Stanton, C., & Morrison, D. Investigating curricular policy as a tool to dismantle the master's house: Indian Education for All and social studies teacher education. *Policy Futures in Education, 16*(6), 729-748.
19. Utley, J., Ivey, T., Hammack, R. J., & High, K. (2019). Enhancing engineering education in elementary school. *School Science and Mathematics, 119*(4), 203-212.

20. Windchief, S. (2019). Providing Access, Serving Programs, and Inclusiveness; a Tripartite Model for Graduate Schools. *International Journal of Multicultural Education*, 21(2), 64-80. <http://ijme-journal.org/index.php/ijme/index>
21. Windchief, S., Arouca, R., & Brown, B. (2018). Developing an Indigenous Mentoring Program for AI/AN graduate students in STEM fields. *Mentoring and Tutoring; Partnerships in Learning*, 26(5), 503-523. <https://www.tandfonline.com/doi/pdf/10.1080/13611267.2018.1561001?needAccess=true>
22. Windchief, S., & Ryan, K. E. (2018). The sharing of indigenous knowledge through academic means by implementing self-reflection and story. *AlterNative: An International Journal of Indigenous Peoples*, 1-8. <http://dx.doi.org/10.1177/1177180118818188>
23. Windchief, S., Polacek, C., Munson, M., Ulrich, M., & Cummins, J. (2018). In Reciprocity: Responses to Critique of Indigenous Methodologies In Education. *Qualitative Inquiry*, 24(8), 532-542. <http://journals.sagepub.com/eprint/eeFX2ZIQgMMeVbP3w8BN/full>

## b. Contributing Book/Monograph Chapters

1. Hoo, K., Windchief, S. In Betsy O. Barefoot (Ed.), *Indigenous Communities and Access to Graduate Degrees in STEM* (187th ed., pp. 110). San Francisco, CA: Jossey-Bass - Wiley Periodicals, Inc - New Directions for Higher Education. <https://onlinelibrary.wiley.com/doi/abs/10.1002/he.20286>
2. Johnson, C. M., Myers, C. B., Ward, K. A., Hollist, D. R., & Sanyal, N. (2018). American Indian/Alaska Native Graduate Student Experience in STEM: Conceptual Perspectives. In H. Mackey & E. Murakami (Eds.) (Ed.), *Theoretical and Conceptual Frameworks for the Advancement of Research on Race, Gender, and Ethnicity in Educational Leadership* edited by H. Mackey & E. Murakami. (pp. 101-126). Information Age Publishing Inc, Charlotte, NC.:
3. Windchief, S., & San Pedro, T. (2019). Applying Indigenous Research Methods: Storying with Peoples and Communities. In Sweeney Windchief, Timothy San Pedro (Ed.), *Indigenous and Decolonizing Studies in Education* (9781351690058th ed., pp. 194). New York, N.Y.: Routledge. <https://www.taylorfrancis.com/books/9781351690058>

## 2. Reviewed Materials

### a. Media Contributions

*Carjuzaa, Jioanna*

KGLT-MSU Announcements. September 6, 2018  
MSU NEWS. September 11, 2018  
MSU News Service, Carol Schmidt. September 13, 2019  
MSU News Service/University Communications. September 11, 2018  
MSU News Service/University Communications. July 2, 2018  
MSU Office of the President. September 26, 2019  
Meaghan MacDonald, MSU News Service. July 25, 2019  
NPR. December 24, 2018

*Dotson Davis, Lauren*

Insight into Diversity. March 28, 2018

*Ellsworth, Ann*

Bozeman Chronicle and MSU news service outlets. April 24, 2019  
Christmas Books for Kids.  
Must-have Christmas Books, December 2007, lead article on MSU's website.  
Reading Corner.  
The Reading Corner: Tips for Parents.  
Why Reading Counts -- article written for Gallatin Gateway School Newspaper, fall 2007.

*Ewbank, Ann*

April 16, 2019  
Maximizing School Librarian Leadership Podcast. Host: Judi Moreillon. April 14, 2019

*Herbeck, Mary*

"Prof's Pick Kids' Books to Read, Give" December 24, 2007, The Belgrade News MSU News Service.  
"The Birth of a Famous Feline: An Outrageous Cat Teaches a New Generation to Read" August 13-20, U.S. News and World Report.  
MSU Students Read at Borders.

*Hughes, Bryce*

Australia's Science Channel. August 28, 2018  
Chemistry World. March 15, 2018  
EoS: Earth & Space Science News. July 3, 2019  
Genome Web. March 15, 2018  
Inverse.com. March 14, 2018  
MSU News Service. April 4, 2018  
Mashable. March 15, 2018  
Nature magazine. March 14, 2018  
Pacific Standard Magazine. April 10, 2018  
Parsing Science. July 5, 2018  
Science Magazine. November 7, 2018

Science Magazine. March 14, 2018  
Science News for Students. May 14, 2019  
Secret Life of STEM. August 14, 2019  
Silicon Republic. March 15, 2018  
The Daily Nebraskan. March 26, 2019

*Lindsay, Stephanie*

MSU Public Broadcasting. January 31, 2019

*Pennington, Sarah*

Bozeman Daily Chronicle. January 12, 2019  
MSU News. January 11, 2019

*Seifert, Tricia*

AACRAO Connect. October 15, 2018  
HigherEd Live. April 4, 2018  
LinkedIn. April 26, 2019  
University Affairs. September 25, 2018  
swampED. March 21, 2019

*Versland, Tena*

HBO Vice News. April 6, 2019

## b. Other Reviewed and Non-Reviewed Materials

1. Aylward, A. G. (2018). *Spillover Effects of Mass Incarceration in the US: A Mechanism for Educational Inequality*. New York University.
2. Carjuzaa, J. (2018). Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs Webinar Series. In Dr. Jioanna Carjuzaa and Kayce Williams (Ed.), *Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs*. Bozeman: MSU Center for Bilingual and Multicultural Education. <http://www.montana.edu/carjuzaa/cbme/cbme.html>
3. Hurtado, S., Hughes, B. E., Eagan, M. K., & Paul, R. (2018). Examining Postsecondary and Post-College Pathways of Engineering Students who start at Four-Year Colleges and Universities. *Understanding the Educational and Career Pathways of Engineers* (pp. 151-179). Washington, DC: National Academy of Engineering. [www.nap.edu](http://www.nap.edu)
4. Myers, C., & Myers, S. (2019). *Review of Envisioning Public Scholarship for Our Time (2018)*, edited by A. Kezar, Y. Drivalas, & J.A. Kitchen. T (2019th ed.). Columbia University, NYC: Teachers College Record.

5. Rinio, D. (2018). *The Use Social Network Analysis by School Librarians to Evaluate and Improve Collaborative Networks in Their Secondary Schools: A Pilot Study*. University of Alaska Fairbanks.
6. Shear, S., Sabzalian, L., Pochedley, L., Slick-Driscoll, L., Red Corn, A., Stanton, C., Talbert, R., Heafner, T., & Wager, S. (2018). *Toward Responsibility: Social Studies Education that Respects and Affirms Indigenous Peoples and Nations* (3rd ed., vol. 82, pp. 167-173). Social Education.
7. Windchief, S., & Hoo, K. Editors' Notes. In Jillian L. Kinzie (Ed.), *Communities and Access to Graduate Degrees in STEM* (187th ed., pp. 5-8). Hoboken, NJ: New Directions for Higher Education - Wiley. <https://onlinelibrary.wiley.com/doi/full/10.1002/he.20331>

### 3. Reviewed and Non-Reviewed Abstracts and Conference Proceedings of Papers Presented at Regional, National, and International Meetings

1. Dahl, T., Schell, W., Kauffmann, P., & Hughes, B. E. (2018). In E-H. Ng, B. Nepal, E. Schott, and H. Keathley (Ed.), *Understanding the Professional, Non-Academic Experience of Engineering Faculty*. American Society for Engineering Management.
2. Hammack, R. J. (2018). *K-5 Teachers' Perceptions of Engineering Education and Perceived Barriers to Teaching Engineering*. American Society for Engineering Education Conference.
3. Hammack, R., & Vo, T. *Development of the Draw-An-Engineering\_Teacher\_test (DAETT)*. Bozeman: American Society for Engineering Education Conference.  
file:///Users/rebekahhammack/Downloads/board-115-work-in-progress-development-of-the-draw-an-engineering-teacher-test-daett.pdf
4. Hughes, B. E., Schell, W., Tallman, B., Annand, E., Beigel, R., & Kwapisz, M. (2019). *Do I Think I'm an Engineer? Understanding the Impact of Engineering Identity on Retention*. American Society for Engineering Education.
5. Hughes, B. E., Schell, W., Tallman, B., Annand, E., Beigel, R., & Kwapisz, M. (2019). *Engineering Leadership Identity: Understanding the Intersection of Engineering and Leadership Identities*. American Society for Engineering Education.
6. Hughes, B. E., Schell, W., & Tallman, B. (2018). *Development of Leadership Self-Efficacy: Comparing Engineers, Other STEM, and Non-STEM Majors*. ASEE/IEEE Frontiers in Education Conference.
7. Hughes, B. E., Schell, W., & Tallman, B. (2018). In E-H. Ng, B. Nepal, E. Schott, and H. Keathley (Ed.), *Understanding engineering identity in undergraduate students*. American Society for

Engineering Management.

8. Lux, N., LaMeres, B., Willoughby, S., & Hughes, B. E. (2019). *Designing a middle grades spatial skills curriculum in Minecraft*. Tampa, FL: American Society for Engineering Education. [peer.asee.org](http://peer.asee.org)
9. Lux, N., LaMeres, B., Hughes, B. E., & Willoughby, S. (2018). *Increasing the Spatial Intelligence of 7th Graders using the Minecraft Gaming Platform*. Salt Lake City, UT: 2018 American Society of Engineering Education (ASEE) Annual Conference.
10. Reckinger, S., & Hughes, B. E. (2018). *Partnering strategies for paired formative assessment in programming*. American Society for Engineering Education.
11. Schell, W., Hughes, B. E., & Tallman, B. (2018). *Exploring the Conflict Between an Engineering Identity and Leadership*. Proceedings of the Canadian Engineering Education Association Annual Conference.
12. Schell, W., Hughes, B. E., & Tallman, B. (2018). *Understanding the perceived impact of engineers' leadership experiences in college*. American Society for Engineering Education.
13. Willoughby, S., LaMeres, B., Hughes, B. E., & Organ, C. (2019). *Using improvisational acting techniques to improve the oral communication skills of STEM graduate students*. Tampa, FL: American Society for Engineering Education.
14. Willoughby, S., LaMeres, B., Hughes, B. E., Organ, C., Green, J., Sterman, L., & Davis, K. (2018). *STEM Storytellers: Improving the Oral Communication Skills of STEM Graduate Students*. Salt Lake City, UT: 2018 American Society of Engineering Education (ASEE) Annual Conference.

#### 4. Technical Reports

1. Myers, C. B., & Johnson, C. M. (2018). Collaborative Research: The Pacific Northwest Alliance to Develop Implement and Study a STEM Graduate Education Model for American Indians and Alaskan Natives. *Larger part of the AGEP Grant NSF 1431773*. Bozeman, MT.
2. Myers, C. B., & Johnson, C. M. (2018). Collaborative Research: The Pacific Northwest Alliance to Develop Implement and Study a STEM Graduate Education Model for American Indians and Alaskan Natives. *Larger part of the AGEP Grant NSF 1431773* (pp. 10). Bozeman, MT.
3. Myers, C. (2018). Centers of Biomedical Research Excellence Annual Progress Report submitted to

National Institutes of Health. *NIH funded COBRE project in the Department of Immunology and Infectious Disease.*

## 5. Popular Press

*Herbeck, Mary*

"ALAN Workshop Yields 35 Pounds of Books, 69 Authors". Update: A Newsletter of the Montana Association of Teachers of English Language Arts, January (1st Quarter/Winter) 2019. Kalispell, Montana.

"The Charlotte Huck Award Celebrates Compassion". Update: A Newsletter of the Montana Association of Teachers of English Language Arts, March 2018. Kalispell, Montana.

*Hughes, Bryce*

"The cost of coming out in biomedicine". *Physiology News*, July (3rd Quarter/Summer) 2019. London.

## 6. Other Scientific Presentations

### **Demonstration**

1. Hughes, B. E., & King, A. (Author & Presenter), ACPA Annual Convention, "Interrupting Microaggressions through Bystander Intervention Training," American College Personnel Association, Boston, MA. (March 5, 2019).
2. Pennington, S. E., Association for Middle Level Education Annual Conference, "One Idea: Many Stories," Association for Middle Level Education, Nashville, TN. (November 8, 2019).
3. Pennington, S. E., Montana AGATE Conference, "Beyond a One-Use Rubric: A Tool that Provides Opportunities for Goal Setting & Growth," Montana AGATE, Billings, MT. (March 9, 2018).
4. Pennington, S. E. (Author & Presenter), Morical, W. (Presenter), Bell, S. (Presenter), Montana AGATE Conference, "One Idea, Many Stories: A Strategy to Engage Gifted Writers," Montana AGATE, Billings, MT. (March 9, 2018).
5. Pennington, S. E., Montana State Literacy Conference, "Scaffolding Students' Questioning Skills: From Who to Why," Montana State Reading Conference, Billings, MT. (October 18, 2018).

6. Seifert, T., & Wadsley, K. (Presenter), Canadian Association of College and University Student Services, "Transatlantic game play: Supporting higher education access and student success," CACUSS, Calgary, Alberta, Canada. (June 2019).
7. Seifert, T., Educators Conference, "Using games to develop students' college knowledge," MFPE, Belgrade, MT. (October 2019).
8. Seifert, T., Montana College Access Network, "Gaming the college transition: How a boardgame can ease the transition to college.," Reach Higher Montana and GEAR UP, Helena, MT. (March 2019).
9. Seifert, T., & Wadsley, K. (Presenter), SXSW EDU, "Transatlantic gaming for higher education student success," Austin, TX. (March 2019).
10. Seifert, T., Students in Transition conference, "Gaming to gain college knowledge," National Resource Center for the First-Year Experience and Students in Transition, Indianapolis, IN. (October 2018).
11. Stanton, C., "Qualitative Research I," Montana Engineering Education Research Center, Bozeman, MT. (February 12, 2018).
12. Wadsley, K. (Presenter), & Seifert, T. (Presenter), AACRAO Strategic Enrollment Management conference, "Transatlantic game play: Supporting higher education access and success.," AACRAO, Washington, DC. (November 2018).

### **Keynote/Plenary Address**

1. Carjuzaa, J., KEY PRACTICES TO EMPOWER STUDENTS Teaching, Technology and Engagement, "Who Am I?: Creating My Life Story in Six Words," U.S. Department of Education Research Exchange (IREX) and Fulbright Colombia, Bogota, Colombia. (August 16, 2019).
2. Downey, J., Society for Provision of Education in Rural Australia Annual Meeting, "The Important Role of Place and Partnerships in U.S. Rural Education," Society for Provision of Education in Rural Australia, Perth, AU. (November 2018).
3. Mayhew, M. (Author & Presenter), Seifert, T. (Author & Presenter), & Wolniak, G. (Author & Presenter), Karlsberger Scholarly Colloquium, "How college affects students," Ohio State University, Columbus, OH. (March 2018).
4. Rinio, D., Northwest Association of Independent Schools Annual Meeting, "Communicate to Collaborate: It's more than just Sending an Email," Northwest Association of Independent Schools, Seattle, Washington. (March 2018).
5. Schaefer, V., Downey, J., Pratt, A., Smith-Woofter, M., Wneck, P., & Ted Andrews Winter Symposium, "Rural Teacher Recruitment and Retention: Partnerships," National Association of State Directors of Teacher Education and Certification, San Diego, CA. (January 2018).

6. Seifert, T., Board of Governors / Faculty Senate Retreat, "Understanding the student experience," Simon Fraser University, Vancouver, BC. (March 2018).
7. Seifert, T., MSU Distinguished Provost Lecture, "Re-defining success: An important quest for students & the academy," Montana State University, Bozeman, MT. (February 20, 2018).
8. Seifert, T., Students in Transition conference, "Gaming the transition: Game-based and experiential learning as paths to the future," National Resource Center for the First-Year Experience and Students in Transition, Indianapolis, IN. (October 2018).
9. Seifert, T., Thompson Rivers University for the Division of Student Development Retreat, "Defining success; An important quest for students and the academy," Thompson Rivers University, Kamloops, BC. (June 2018).
10. Versland, T., ATE -Clinical Fellows, "On the Road Again: Bridging the Divide Between Clinical Practice and Rural School Partnerships," Association of Teacher Educators, Atlanta GA February 17, 2019. (February 17, 2019).
11. Versland, T. (Panelist), Reading, C. (Coordinator/Organizer), Klupe, C. (Panelist), Wallis, D. (Panelist), Taylor, N. (Panelist), Hampton, P. (Panelist), Redford, M. (Panelist), International Symposium for Innovation for Rural Education, "Educating for Sustainability in Remote Locations," Society for Provision of Education in Rural Australia, Bozeman, MT. (August 2, 2018).
12. Windchief, S., 2018 AIHEC Behavioral Health Institute, "Indigenous Research Methodologies; Where to go from here (Working Title)," American Indian Higher Education Consortium, Seattle Washington. (June 18, 2018).
13. Windchief, S., ISFIRE 2018, "The Sharing of Indigenous Knowledge Through Academic Means by Implementing Self-reflection and Story," International Symposium for Innovation in Rural Education, Bozeman, Montana. (August 1, 2018).
14. Windchief, S., National Forum to Advance Rural Education, "21st Century Learning for Rural Students – The Power of Place," Battelle for Kids, Louisville KY. (October 24, 2019).

## Lecture

1. Beck, C., Haynes, D., Henderson, D., Hughes, B. E., Kearns, C., Schmitt-Wilson, S., Seifert, T., & Vaterlaus, J. M., Center for Faculty Excellence Workshops, "Why Students Become a Bobcat: Our Opportunity to Foster Students' Commitment to College and Future Success," Center for Faculty Excellence, Bozeman, MT. (February 2018).
2. Downey, J., "Rural education in Montana and beyond: Realities, relationships, and research," College of Education Health & Human Development, Montana State University. (February 2018).

3. Hughes, B. E., EHHD Talks, "'Me-Search': Turning the Research Lens Back on Higher Education," College of EHHD, Montana State University, Bozeman, MT. (January 29, 2019).
4. Hughes, B. E., Graduate Seminar, "Coming out in STEM: The Experiences of LGBTQ students in STEM fields," Department of Land Resources and Environmental Science, Montana State University, Bozeman, MT. (September 24, 2018).
5. Hughes, B. E., & Schell, W., "Using Identity to Understand Engineering Leadership: Possibilities for Broadening Participation in Engineering," University of Guelph, Guelph, ON. (April 8, 2019).
6. Seifert, T., MSU Honors College Series, "What heats you: Not a conversation of thermodynamics," MSU Honors College, Bozeman, MT. (March 2018).
7. Seifert, T., MSU Professional Council, "WHY? Redefining Success," Montana State University, Bozeman, MT. (March 14, 2019).
8. Seifert, T., Montana University System Road Show, "Gaming college: How games help students transition to college," Montana University System. (October 2018).
9. Seifert, T., Talking with Neighbors: An Interfaith Forum for People of Gallatin Valley, "Education and Religion," Gallatin Valley Interfaith Association, Bozeman, MT. (February 6, 2019).
10. Seifert, T., MSU Leadership Academy, "Redefining Success: An Important Quest for Students and the Academy," Montana State University, Bozeman, MT. (February 21, 2019).
11. Wilson, S., MSU Faculty Symposium: Inspiring Excellence in Teaching and Learning, "Strategies for Success in Service Learning," Montana State University, Bozeman, MT. (November 2018).
12. Wilson, S. (Author & Presenter), Obery, A. (Author & Presenter), & Sletten, J. (Author & Presenter), Montana Data Use Culture Conference, "What is Data and What Does it Mean to Use it? Perceptions of Preservice Teachers and the Faculty," Bozeman, MT. (October 2018).
13. Wilson, S., Montana State University Sophomore Surge Mentors, "Identity Development in College 101: Strategies for Mentoring Students." (January 16, 2018).
14. Wilson, S., "Research with Large External-generated Datasets," MSU EHHD Brown Bag Research Methods Seminar. (April 2018).
15. Windchief, S., "Holographic Epistemology (Native Common Sense): Mentoring and Leadership," Hilleman Scholars Lecture, Bozeman, Montana. (July 19, 2018).
16. Windchief, S., Strategies to Attract and Support URM Graduate Students, "Academic Family: Reconceptualizing Mentoring for Graduate Students from Communities Historically Underrepresented in STEM," Sloan Foundation/Purdue University, West Lafayette, Indiana.

(April 19, 2018).

### Oral Presentation

1. Aderholdt, D. (Author & Presenter), Oliveri, C. (Author & Presenter), Clark, J. (Author & Presenter), & Seifert, T., Canadian Association of College and University Student Services, "Success advice from the everyday student," CACUSS, Calgary, Alberta, Canada. (June 2019).
2. Arnold, C. (Author & Presenter), & Seifert, T. (Author & Presenter), Canadian Association of College and University Student Services annual conference, "Faculty motivations and behaviours influencing cross campus partnerships," Canadian Association of College and University Student Services, Charlottetown, PEI. (June 2018).
3. Bruun, M. (Author & Presenter), Smith, J. (Author), & Hughes, B. E. (Author), RMPA Annual Convention, "Psychological forms of resistance to gender equity efforts in STEM among academic leaders," Rocky Mountain Psychological Association, Denver, CO. (April 2018).
4. Carjuzaa, J., T. B. (Panelist), A. F. (Panelist), 12th Annual IEFA Best Practices Conference, "American Indians 101," Office of Public Instruction, Helena. (March 4, 2018).
5. Carjuzaa, J., 12th Annual IEFA Best Practices Conference, "Learn How to Meet the Needs of American Indian English Language Learners by Participating in the MontTELLs Grant Project," Montana Office of Public Instruction, Helena. (March 5, 2018).
6. Carjuzaa, J., 21st Annual International Conference on Education, "Preparing Regular Classroom Teachers to Meet the Needs of American Indian English Language Learners," Athens Institute for Education and Research (AITNER), Athens, Greece. (May 22, 2019).
7. Carjuzaa, J., 28th Annual National Association for Multicultural Education (NAME), "Beyond Thoughts and Prayers: How Can We Support Students and Practice Self-Care When Tragedy Strikes?," National Association for Multicultural Education (NAME), Memphis, TN. (November 28, 2018).
8. Carjuzaa, J., 37th Annual Montana Indian Education Association (MIEA), "American Indian English Language Learners: Who Are These Students and What Do We Need to Do to Help Them Succeed Academically," MIEA, Billings. (April 5, 2018).
9. Carjuzaa, J., Bradley, T. (Panelist), Williams, D. (Panelist), & Fisher, A. (Panelist), Flatlip, S. (Panelist), 49th National Indian Education Association (NIEA) Convention, "NDN Enough To Be The Token - Too NDN To Teach," National Indian Education Association (NIEA) Convention, Hartford, CT. (October 13, 2018).
10. Carjuzaa, J., & Rasmussen, J. R. (Presenter), 70th Annual National Association of Foreign Student Advisers (NAFSA) Conference & Expo, "Maximizing International Scholar Programs to Enhance Campus Globalization," NAFSA, Philadelphia, PA. (May 30, 2018).

11. Carjuzaa, J., Class 7 Professional Development Workshops, "Lesson Planning for Class 7 Indigenous Language and Culture Teachers," Center for Bilingual and Multicultural Education, MSU, Bozeman, C'mon Inn. (May 11, 2019).
12. Carjuzaa, J., Montana Federation of Public Employees (MFPE) Educator Conference, "How to Increase Your Knowledge/Skills/Dispositions and Help ELLs Succeed Academically," Montana Federation of Public Employees (MFPE), Skyview High School, Billings, MT. (October 18, 2018).
13. Carjuzaa, J., T. F. (Panelist), Montana Federation of Public Employees (MFPE) Educator Conference, "Secondary Teachers from Around the World Speak Out," Montana Federation of Public Employees (MFPE), Skyview High School, Billings, MT. (October 18, 2018).
14. Davie, L. (Author & Presenter), & Lux, N. (Author & Presenter), 2019 Partners in the Outdoors Conference, "Making connections: The role of technology and outdoor recreation," Colorado Parks and Wildlife, Breckinridge, CO. (April 2019).
15. Dotson, L. (Author & Presenter), Association for Middle Level Education, "Frequent Flyers": Classroom and School Discipline Management Strategies Using a Trauma-Sensitive Lens," Orlando, FL. (October 2018).
16. Dotson, L. (Author & Presenter), Association of Independent Liberal Arts Colleges of Teacher Education Conference, "Frequent Flyers": Classroom and School Discipline Management Strategies Using a Trauma-Sensitive Lens," Baltimore, MD. (March 2018).
17. Dotson, L. (Author & Presenter), Association of Independent Liberal Arts Colleges of Teacher Education Conference, "Middle Grades Student Achievement and Poverty Levels: Implications for Teacher Preparation," Baltimore, MD. (March 2018).
18. Dotson, L., International Symposium for Innovation in Rural Education, "The Case for Trauma-Informed Care in Rural Schools," Montana State University, Bozeman, MT. (August 2018).
19. Dotson, L. (Author), Buchanan, R. (Author & Presenter), Washington County Public Schools Professional Development, "Trauma-Informed Approaches in Health and Physical Education," Washington County Schools, VA, Abingdon, VA. (July 2018).
20. Downey, J. (Author & Presenter), Hill, M. (Author & Presenter), Mitchell, R. (Author & Presenter), Schaefer, V. (Coordinator/Organizer), National Forum to Advance Rural Education, "Addressing the challenges of teacher recruitment and retention in rural districts," National Rural Education Association, Denver, CO. (October 2018).
21. Ellsworth, A., 3rd Annual Conference for Academic Research in Education, "PreK-8 Teacher Candidates' Readiness to Teach Writing: Students' Reflections as a Catalyst for Change," CARE, Las Vegas, NV. (February 25, 2019).
22. Ellsworth, A., AGATE, "Getting Ready for the ACT and SAT: Creative Grammar and Punctuation Instruction That Improves Students' Knowledge Base and Writing Skills,"

- Association for Gifted and Talented Education, Billings. (March 8, 2018).
23. Ellsworth, A., AGATE, "Now More Than Ever: Non-fiction, Advanced Text Analysis and Instructional Strategies to Challenge Able Readers," Association for Gifted and Talented Education, Billings. (March 8, 2018).
  24. Ellsworth, A., Conference on Academic Research in Education, "Teacher Candidates' Readiness to Teach Writing: Reflections as a Catalyst for Change," University of Nevada-Las Vegas, Las Vegas, Nevada. (February 26, 2018).
  25. Ellsworth, A. (Presenter), & Pennington, S. E. (Presenter), Hawaii International Conference on Education, "Crossing the Writing Intersection: Putting Teacher Candidates in the Driver's Seat," Hawaii International Conference on Education, Honolulu. (January 5, 2018).
  26. Ellsworth, A., International Conference on Literacy, Culture, and Language Education, "Learn it, Share it: Dual-Coding Language Concepts," University of Indiana, Bloomington. (October 5, 2018).
  27. Ellsworth, A., MFPE Educators' Conference, "Make It Mine: Dual-coding for Vocabulary and Concept Learning," MFPE, Billings. (October 18, 2018).
  28. Ellsworth, A., MFPE Educators' Conference, "The ABCs and Nonfiction: Thinking and Writing," MFPE (Formerly MEA-MFT), Billings, MT. (October 18, 2018).
  29. Ellsworth, A., Montana Council of Exceptional Children, "Active Learning for All: Success Begins With Small Steps," MCEC, Missoula. (March 1, 2018).
  30. Ellsworth, A., & Ewbank, A., Montana State Literacy Council Conference, "Learning From Finland: Rethinking Classroom Practice," Montana State Literacy Council, Billings, MT. (October 19, 2018).
  31. Ellsworth, A., Northern Regional California Teachers of English to Speakers of Other Languages, "Maximizing Comprehension for Adolescent and Adult Learners," California Community Colleges, Santa Rose. (May 21, 2018).
  32. Ellsworth, A., & Kennedy, B. (Discussant), Northern Rocky Mountain Education Research Associations, "Making the Case for Grammar Instruction in Teacher Preparation Programs," NRMERA, Salt Lake. (October 17, 2018).
  33. Ellsworth, A., Gotz, R. (Presenter), Online Learning Consortium, "Engaging Students and Improving Online Learning: Not Your Typical Earth Science Class," OLC, Denver. (April 3, 2019).
  34. Ewbank, A., Hildreth, S. (Presenter), Stapp, J. (Presenter), Internet2 Summer Workshop, "Community Anchor Program," Internet2, Bozeman, MT. (August 13, 2019).
  35. Ewbank, A., & Ellsworth, A., MFPE Educators' Conference, "Literacy and Libraries in Finland: Teacher Education Study Abroad.," Montana Federation of Public Employees (formerly

- MEA-MFT), Billings, MT. (October 18, 2018).
36. Ewbank, A., MFPE Educators' Conference, "School Library Advocacy: Montana School Librarian Survey Results/ Action Plan," Montana Federation of Public Employees (formerly MEA-MFT), Billings, MT. (October 18, 2018).
  37. Ewbank, A., Montana Library Association Annual Conference, "School Library Advocacy: Montana School Librarians Share Their Stories.," Montana Library Association, Bozeman, MT. (April 13, 2018).
  38. Ewbank, A., Montana Library Association Annual Conference, "Student Privacy in the Age of Big Data," Montana Library Association, Helena, MT. (April 13, 2019).
  39. Ewbank, A., Montana Library Association School Library Retreat, "School Library Advocacy: Montana School Librarians Share Their Stories.," Montana Library Association, MSU-Bozeman. (July 26, 2018).
  40. Ewbank, A., Johnson, S. T. (Presenter), Montana Library Association School Library Retreat, "Using Heuristics to Teach Students about Social Media News," Montana Library Association, Bozeman, MT. (July 23, 2019).
  41. Gannon, P., & Lux, N., 2018 ASEE Annual Conference and Exposition, "Diversifying Engineering through Identity Forming Interventions," ASEE, Salt Lake City, UT. (June 24, 2018).
  42. Gossen, A. (Author & Presenter), Hammack, R. (Author & Presenter), & Utley, J., School Science and Mathematics Association Annual Convention, "Increasing Elementary Students Understanding and Awareness of Engineering Through a Summer Camp," School Science and Mathematics Association, Salt Lake City, UT. (November 9, 2019).
  43. Green, J. (Author & Presenter), Willoughby, S., LaMeres, B., Hughes, B. E., Sterman, L., Organ, C., & Davis, K., Joint Statistical Meetings, "STEM Storytellers: Improving Graduate Students' Oral Communication Skills," American Statistical Association, Vancouver, BC. (July 2018).
  44. Green, J. (Author & Presenter), Willoughby, S. (Author), LaMeres, B. (Author), Hughes, B. E. (Author), Sterman, L. (Author), Organ, C. (Author), & Davis, K. (Author), Joint Statistical Meetings, "The Art of Storytelling: Engaging Audiences with Podcasts and Curiosity Cafes," American Statistical Association, Denver, CO. (July 2019).
  45. Hammack, R., Montana Summer Science Institute, "Community Engagement Through Family Engineering Night," School Services of Montana and SMRC, Bozeman, MT. (August 7, 2019).
  46. Hammack, R., Montana Summer Science Institute, "What Floats in a Moat? Integrated STEM Learning in a One Room Schoolhouse (K-5)," School Services of Montana, Bozeman, MT. (August 6, 2019).
  47. Hammack, R., School Science and Mathematics Association Annual Convention, "A

- Comparison of Elementary Preservice Teachers' Engineering Efficacy and Engineering Teaching Efficacy," School Science and Mathematics Association, Salt Lake City, UT. (November 8, 2019).
48. Hammack, R., School Science and Mathematics Association Annual Convention, "Revisiting the Draw-An-Engineer Test with Middle School Students," School Science and Mathematics Association, Little Rock, AR. (October 19, 2018).
  49. Hammack, R., School Science and Mathematics Association Annual Convention, "Uncovering Middle School Girls' Perceptions of and Attitudes Towards Science and Engineering," School Science and Mathematics Association, Little Rock, AR. (October 20, 2018).
  50. Herbeck, J., MFPE Educators' Conference 2018, "Walk in the Footsteps of Characters: Study Abroad Enhances Literature," Montana Federation of Public Employees, Skyview High School, Billings, Montana. (October 18, 2018).
  51. Herbeck, J., Christofferson, H. (Presenter), Dennehy, M. (Presenter), Gierke, Z. (Presenter), Tolzien, E. (Presenter), Dick, B. (Presenter), Waddell, J. (Presenter), Buckley, H. (Presenter), Hambrick, J. (Presenter), & Agras, A. (Presenter), MFPE Educators' Conference, "Hook Beginning Readers with Books They Can't Resist: Theodor Seuss Geisel Award," Montana Federation of Public Employees, Skyview High School, Billings, Montana. (October 18, 2018).
  52. Herbeck, J., National Council of Teachers of English annual convention, "Building Your Stacks: The Rooster Who Would Not Be Quiet; Shelter," NCTE, Houston, Texas. (November 18, 2018).
  53. Hicks, J. (Author & Presenter), & Bulatowicz, D. (Author & Presenter), Critical Questions in Education Conference, "Connecting theory to practice: Early field experiences in the afterschool setting," The Academy for Educational Studies, Portland, OR. (March 6, 2018).
  54. Hicks, J., Olsen, K. W., Wynhoff Olsen, A., & Long, D., ISFIRE 2018, "Integrating Rurality in Teacher Preparation," MSU Center for Research in Rural Education, Bozeman, MT. (August 2, 2018).
  55. Hughes, B. E., AAAS, "Coming out and leaving STEM: Experiences of LGBTQ STEM undergraduates," American Association for the Advancement of Science, Washington, DC. (February 16, 2019).
  56. Hughes, B. E., & Blanchard, D. (Presenter), ACPA Annual Convention, "Helicopter or Compass? Student-Family Relationships in the First Year," American College Personnel Association, Houston, TX. (March 12, 2018).
  57. Hughes, B. E., ASM Microbe, "#QueerInSTEM: Creating Inclusive Learning Environments for LGBTQ Students in the Sciences," American Society for Microbiology, San Francisco, CA. (June 22, 2019).
  58. Hughes, B. E., "Mixed Methods Research Brown Bag," College of Education, Health, and Human Development, Bozeman, MT. (March 23, 2018).

59. Luo, F., & Tran, Q., Montana Data Use Culture Conference, "A Longitudinal Look at Student Achievement Data," Montana OPI, Strand Union Building, Montana State University. (September 19, 2018).
60. Lux, N., & LaMeres, B., 2018 ASEE Annual Conference and Exposition, "Measuring the Influence of a STEM Curriculum on K-12 Student Achievement and Learner Engagement," ASEE, Salt Lake City, UT. (June 24, 2018).
61. Olsen, K. W., Agoro Symposium: Arts, Health, Wellness, "Movement Through the Arts," National Theatre of Ghana, Accra, Ghana. (June 25, 2018).
62. Parker, D. (Chair), Office of International Programs Lunch Presentation, "Study Abroad: The Last Best Teaching Experience," Center for Teaching and Learning, Montana State University, Bozeman, MT Student Union Building. (September 20, 2018).
63. Pennington, S. E., 2019 MBI Summer Institute, "Dyslexia: Knowing the facts; understanding Montana law.," Montana Office of Public Instruction, Bozeman, MT. (June 20, 2019).
64. Pennington, S. E., EHHD Talks, "Looking at Reading Through Fresh Eyes: Deconstructing What Counts as "Real" Reading," College of Education, Health, & Human Development, Bozeman, MT. (January 30, 2019).
65. Rinio, D. (Leader), Ewbank, A., & Nemec-Loise, J., Center for the Future of Libraries Symposium, "Breaking Down the Barriers to School Library Advocacy," American Library Association, Seattle, WA. (January 26, 2019).
66. Rinio, D. (Presenter), Ewbank, A. (Presenter), & Nemec-Loise, J. (Presenter), American Library Association Midwinter Meeting, "Breaking Down the Barriers to Advocacy for School Libraries," American Library Association, Washington, DC. (January 2019).
67. Rinio, D., Northwest Association of Independent School Librarians Conference, "Let's Collaborate!: Exploring the Collaboration Framework in the AASL Standards," Northwest Association of Independent Schools, Seattle, WA. (March 2018).
68. Ruff, J., & Ruff, W., Annual Conference, "Impact of Cultural Immersion Service Learning on Transcultural Self-Efficacy of Nursing Graduates," Transcultural Nursing Society, Richmond VA. (October 15, 2019).
69. Santos Green, L., Johnston, M., Ewbank, A., Branyon, A., & Dawkins, A., American Library Association Midwinter Meeting, "School Library Research: Where We've Been and Where We're Going," American Library Association, Seattle, WA. (January 26, 2019).
70. Seifert, T. (Presenter), Beaulieu, J. (Presenter), Arnold, C. (Presenter), Canadian Association of College and University Student Services annual conference, "Paddling together: A celebration of student success as our shared responsibility.," Canadian Association of College and University Student Services, Charlottetown, PEI. (June 2018).

71. Stanton, C. R., Ricciardelli, L., & Hall, B., Annual Convention, "The Digital Storywork Partnership: Engaging Students, Educators, and Community Members in Research and Filmmaking," International Symposium for Innovation in Rural Education, Bozeman, MT. (August 1, 2018).
72. Stanton, C. R. (Author & Presenter), Community-Centered & Compassionate Scholarship Symposium, "The Digital Storywork Partnership: Combining Indigenous research and filmmaking to revitalize community knowledge," Bozeman, MT. (September 6, 2018).
73. Stanton, C. R. (Author & Presenter), Days of the Piikani, "The Digital Storywork Partnership: An Evolving Model for Piikani-Led Research and Filmmaking," Blackfeet Nation IRB, Browning, MT. (September 18, 2018).
74. Versland, T. (Author & Presenter), Montana Data Use Conference, "Literacy 2.0: Strategies to Help Educators Gain Confidence and Competence Using Student Data.," MT Office of Public Instruction/DOE, Bozeman, MT. (September 18, 2018).
75. Wilson, S. (Author & Presenter), Vaterlaus, J.M (Author), & Beck, A. (Author), International Symposium for Innovation in Rural Education, "Rural Adolescents' Educational and Occupational Values: Are They Different and Do They Matter in Young Adulthood?," Bozeman, MT. (August 2018).
76. Wilson, S. (Author & Presenter), & Sletten, J. (Author & Presenter), Presented at the National Forum to Advance Rural Education at the annual meeting of the National Rural Education Association, "Post-Secondary Attendance, Persistence, and Graduation: A Study of Rural Students in Montana," National Rural Education Association, Denver, CO. (October 2018).
77. Windchief, S., Brown, B. (Author), & Arouca, R. (Author), American Indian Science and Engineering Society National Conference, "Developing an Indigenous Mentoring Program; Training Faculty to Mentor American Indian Graduate Students in STEM," Oklahoma City, Oklahoma. (October 5, 2018).
78. Windchief, S. (Author & Presenter), Ryan, K. E. (Author), EHHD Talks, "The Sharing of Indigenous Knowledge Through Academic Means by Implementing Self-reflection and Story," The College of Education, Health and Human Development, Bozeman, Montana. (January 30, 2018).
79. Wynhoff Olsen, A. (Chair), Phillips, D. (Presenter), Davidson, B. (Presenter), Houston, A. (Presenter), Waterton, N. P. (Discussant), & Petrone, R. (Discussant), National Council Teachers of English Conference, "Activating English and Youth Empowerment," NCTE, Houston, TX. (November 16, 2018).

## Other

1. Carjuzaa, J., Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs, "Revitalizing Indigenous Languages, Cultures, and Histories in Montana, across the United States and around the Globe," Center for Bilingual and Multicultural Education, Bozeman - Online. (March 20, 2018).
2. Ellsworth, A., Montana August Institute, "Motivating Writers: Using Technology to Showcase Student Work," WMPLC and UM, Missoula. (August 7, 2019).
3. Ellsworth, A., Montana August Institute, "Teaching Revision with Google Docs," WMPLC and UM, Missoula. (August 8, 2019).
4. Hammack, R. (Author & Presenter), & Ward, M., Montana STEM Summit, "Opportunities & K-12 Science Standards," Montana State University, Bozeman, MT. (August 8, 2019).
5. Harmon, A. (Chair), Windchief, S. (Panelist), White, S. (Panelist), Prat, A. (Panelist), & Pegg, J. (Panelist), International Symposium for Innovation in Rural Education, "Strengthening Rural Education: Partnering for Enduring Success," Center for Research on Rural Education/The National Centre of Science, Information and Communication Technology, and Mathematics Education for Rural and Regional Australia, Bozeman, Montana. (August 3, 2018).
6. Lockhart, M., Vaterlaus, J. M., Donahue, A., Perry, L., Stanton, C., Otter Brown, C., Cummings, J., & Bradley, T., "Creating an Inclusive and Safe Classroom Environment," Montana State University Center for Faculty Excellence. (April 4, 2018).
7. Olsen, K. W., Caribbean and African Studies in Education SIG Mentoring Panel, "Mentoring Session," AERA, New York, NY. (April 2018).
8. Windchief, S., Simonds, V., Birdhat Howe, R., & Stanton, C., Brown Bag Research Seminar, "Indigenous Research Methods," College of EHHD. (December 2018).

## **Paper**

1. Arnold, C. (Author & Presenter), Seifert, T. (Author & Presenter), & Moore, K. (Author & Presenter), Canadian Society for the Study of Higher Education annual meeting, "Faculty motivations and behaviours influencing cross campus partnerships," Canadian Society for the Study of Higher Education, Regina, SK. (May 2018).
2. Carjuzaa, J., Ruff, W., & Henderson, D., 28th Annual Convention National Association for Multicultural Education, "Confronting Whiteness as Allies and Professors," National Association for Multicultural Education, Memphis, TN. (November 30, 2018).
3. Carson, R. N. (Author & Presenter), & Rowlands, S. K. (Author & Presenter), International History, Philosophy, Science and Teaching group, "Calculus and the Age of Processive Imagination," IHPST, Aristotle University, Thessaloniki, Greece. (July 16, 2019).
4. Carson, R. N. (Author & Presenter), & Rowlands, S. K. (Author & Presenter), International

- History, Philosophy, Science and Teaching group, "Philosophy and History as an Epic Narrative in Secondary School Mathematics," IHPST, Aristotole University, Thessaloniki, Greece. (July 17, 2019).
5. Downey, J., Australian Association for Research in Education Annual Meeting, "Outcomes of a rural field experience for preservice teachers: Surprises, understandings, connections, and joy," Australian Association for Research in Education, Sydney, AU. (December 2018).
  6. Downey, J., & Waterton, N. P., National Forum to Advance Rural Education, "Rural lessons: Early career teachers in rural contexts share advice for teacher preparation programs, professors, and future rural teachers," National Rural Education Association, Denver, CO. (October 2018).
  7. Fisher, H., & Downey, J., American Education Research Association Annual Meeting, "Using Activity Theory to Understand Effective Writing Instruction with High Poverty Middle School Students," American Education Research Association, New York, NY. (2018).
  8. Hagge, J. (Author & Presenter), & Pennington, S. E. (Author & Presenter), Literacy Research Association Annual Conference, "Beyond "Texting and the internet are destroying literacy": Preservice teacher productive literacy pedagogies," Literacy Research Association, Indian Wells, CA. (November 30, 2018).
  9. Hughes, B. E., ACPA Annual Convention, "LGBQ Microaggressions at a Catholic University," American College Personnel Association, Houston, TX. (March 13, 2018).
  10. Hughes, B. E. (Author & Presenter), Schell, W. (Author), Tallman, B. (Author), AERA Annual Meeting, "How legitimate peripheral participation in engineering during college affects professional identity," American Educational Research Association, Toronto, ON. (April 6, 2019).
  11. Hughes, B. E. (Author & Presenter), Blanchard, D. (Author & Presenter), AERA Annual Meeting, "Success and well-being in the first year of college: A longitudinal, qualitative analysis," American Educational Research Association, Toronto, ON. (April 9, 2019).
  12. Hughes, B. E. (Author & Presenter), & Windchief, S. (Author), American Educational Research Association, "The Morrill Act: Democratizing Education or a Tool of Manifest Destiny?," Indigenous Peoples of The Americas (Special Interest Group), New York, N.Y. (April 14, 2018).
  13. Johnson, C. M. (Author & Presenter), & Myers, C. B. (Author), Annual Meeting of the Association for the Study of Higher Education, "Cultural Congruity and Environmental Fit of International Graduate Students in STEM.," ASHE, Tampa, FL. (November 2018).
  14. Johnson, C. M. (Author & Presenter), Ward, K. A. (Author), & Myers, C. B., Annual Meeting of the Association for the Study of Higher Education, "Indigenous Peoples Representation on Campus: A Multi-Case Study Presentation of Culturally Woke Organizational Features," ASHE, Tampa, FL. (November 2018).

15. Johnson, C. M. (Author & Presenter), Ward, K. A. (Author), & Myers, C. B. (Author), Annual Meetings of the Western Graduate School Association, "Cultural Congruity and Mentorship as Components of Graduate Student Socialization for American Indian/Alaska Native Student Recruitment, Retention, and Success in STEM.," WGS, Las Vegas, NV. (March 2018).
16. Johnson, C. M. (Author & Presenter), Ward, K. A. (Author), & Myers, C. (Author), Annual Meetings of the Western Graduate School Association, "Lessons learned from cultural congruity and mentorship as components of graduate student socialization for American Indian/Alaska Native student recruitment, retention, and success in STEM," WAGS, Las Vegas, NV. (March 2018).
17. Johnson, C. M. (Author & Presenter), Ezah, C. (Author), Myers, C. B. (Author), & Ward, K. A. (Author), Pathways to a Diverse Professoriate: AGEP National Research Conference, "Indigenous Understandings Across Communities and Peoples – Cultural Congruity and Socialization Experiences in STEM" AGEP, Berkley, CA. (March 2018).
18. Kalonde, G., American Educational Research Association (AERA), "The Colonial Malaise: How Sub-Saharan Africa Missed Out On Technology," AERA, New York. (April 16, 2018).
19. Kalonde, G., Association of Teacher Educators, "Do STEM Teachers Need Design Skills to Mathematics and Science Courses," ATE, Las Vegas. (February 18, 2018).
20. Kalonde, G., SITE International Conference, "Engineering Design and Science Integrated Activities Native American Models," AACE, Washington DC. (March 28, 2018).
21. Lux, N. (Author & Presenter), Obery, A. (Author), Cornish, J. S. (Author), & Hartshorn, A. (Author), SITE 2019 Annual Conference, "Competitive Games as Formative Assessments: Improvement or Hindrance?," Society for Information Technology and Teacher Education (SITE), Las Vegas, NV. (March 2019).
22. Lux, N. (Author & Presenter), Willoughby, S. (Author), Hughes, B. E. (Author), LaMeres, B. (Author), Westbrook, E. (Author), & Frank, B. (Author), SITE 2019 Annual Conference, "Using Digital Games to Grow Spatial Skills in Middle Grade Learners," Society for Information Technology and Teacher Education (SITE), Las Vegas, NV. (March 2019).
23. Myers, S., & Myers, C., Annual Meeting of the American Educational Research Association,, "Racial Gaps in Institutional Graduation Rates in the U.S.: Do Expenditures and Financial Aid Matter?," AERA, New York, NY. (April 2018).
24. Pennington, S. E., AERA Annual Meeting, "Self-efficacy in reading and language arts instructional practices: A study of relationships," American Educational Research Association, New York, NY. (April 14, 2018).
25. Ruff, J., Ruff, W., 4th Biennial STTI European Conference, "Facilitating Cultural Consciousness among Undergraduate Nursing Students," Sigma Theta Tau International, Cambridge UK. (June 6, 2018).
26. Ruff, W., Cummins, J. (Author & Presenter), & Parenteau, J. (Author & Presenter), Annual

- Conference, "The Impact of Integrating Indigenous Values with High Quality Leadership Preparation Programs," Consortium for Leadership and Ethics, Houston. (November 15, 2018).
27. Stanton, C. (Author & Presenter), & Hancock, H. (Author & Presenter), Knickerbocker, M. (Author & Presenter), Annual Convention, "'I'd say I have a bit of work to do': Exploring pre-service teacher identity through PhotoVoice," College & University Faculty Assembly of the National Council for Social Studies, Austin, TX. (November 2019).
  28. Stanton, C. (Author & Presenter), & Hall, B. (Author & Presenter), Annual Convention, "'Keep it sacred": Youth-Led research & filmmaking to advance critical social studies education with/in Indigenous communities," American Educational Research Association, Toronto, ON. (April 8, 2019).
  29. Stanton, C., "Youth-Led Self-Determination: Indigenous Storywork in the Digital Age," College & University Faculty Assembly of the National Council for Social Studies, Chicago. (November 29, 2018).
  30. Stolzenberg, E. B. (Author & Presenter), & Hughes, B. E., AERA Annual Conference, "Factors that Affect Sense of Belonging in First-Year Transgender College Students," American Educational Research Association, New York City, NY. (April 16, 2018).
  31. Versland, T., Association of Teacher Educators Annual Meeting, "The Rural Practicum: A Model to Positively Affect Teacher Recruitment in Small Rural Schools," Association of Teacher Educators, Las Vegas, NV. (February 19, 2018).
  32. Versland, T., British Educational Leadership, Management, Administration Society, "Seeing Is Believing: How Aspiring School Leaders Understand Collective Efficacy," BELMAS, Leicester - Hinckley Island, UK. (July 13, 2019).
  33. Versland, T. (Author), Parenteau, J. (Author & Presenter), & Peterson, L. (Author & Presenter), International Symposium for Innovation in Rural Education, "The Rural Practicum: A Model to Positively Affect Teacher Recruitment and Retention," Society for the Provision of Education in Rural Australia, MSU Bozeman, MT. (August 3, 2018).
  34. Versland, T., University Council Of Educational Administration Annual Meeting 2019, "How We See It: Aspiring Leaders View of Collective Efficacy Development," UCEA, New Orleans, LA. (November 22, 2019).
  35. Versland, T., University Council of Educational Administration, "Bridging the Divide: Leveraging Relationships to Positively Affect Educator Recruitment and Retention. x," University Council of Educational Administration, Houston, TX. (November 16, 2018).
  36. do Amaral, B. (Author & Presenter), & Windchief, S., Northern Rocky Mountain Educational Research Association (NRMERA) 2018 Annual Conference, "The Pathway to Achieving Classroom Equity: Computational and Critical Thinking through Storytelling and 3D Models," Salt Lake City, Utah. (October 19, 2018).

## Poster

1. Dotson, L. (Author & Presenter), & Buchanan, R. (Author), Community Centered and Compassionate Scholarship Symposium, "The Case for Trauma-Informed Care: Perspectives and Approaches in Rural Education," Montana State University, Bozeman, MT. (September 2018).
2. Ellsworth, A. (Author & Presenter), & Pennington, S. E. (Author & Presenter), Hawaii International Conference on Education, "Navigating the Chutes and Ladders in Learning How to Teach Children to Read: A Model to Engage Teacher Candidates," Hawaii International Conference on Education, Honolulu. (January 7, 2018).
3. Ellsworth, A. (Author & Presenter), & Meinhardt, J. (Discussant), Hawaii International Conference on Education, "Leveraging Writing Opportunities to Increase Student Success and Efficacy in a First-Year Seminar," Hawaii International Conference on Education, Honolulu. (January 6, 2018).
4. Ellsworth, A., International Conference on Literacy, Culture, Language Education, "Building a Sense of Community: Strategies for addressing first-year seminar students' uncertainties," Indiana University, Bloomington. (October 6, 2018).
5. Ezah, C. (Author & Presenter), Johnson, C. M. (Author), Ward, K. A. (Author), & Myers, C. B., Pathways to a Diverse Professoriate: AGEP National Research Conference, "Examining Cultural Congruity and Environmental Fit of Diverse Graduate Students in STEM fields at Research Universities: A Collaborative Research.," AGEP, NSF, Berkley, CA. (March 2018).
6. LaMeres, B., Willoughby, S., Hughes, B. E., & Lux, N., 2018 ASEE Annual Conference and Exposition, "Increasing the Spatial Intelligence of 7th Graders using the Minecraft Gaming Platform," ASEE, Salt Lake City, UT. (June 24, 2018).
7. LaMeres, B., Willoughby, S., Hughes, B. E., & Sterman, L., ASEE Annual Conference and Exposition, "STEM Storytellers: Improving the Oral Communication Skills of STEM Graduate Students," ASEE, Salt Lake City, UT. (June 24, 2018).
8. Lux, N. (Author), LaMeres, B. (Author & Presenter), Willoughby, S. (Author), & Hughes, B. E. (Author & Presenter), Frank, B. (Author), ASEE 2019 Annual Conference & Exposition, "Designing a Middle Grades Spatial Skills Curriculum in Minecraft," American Association of Engineering Education (ASEE), Tampa, FL. (June 2019).
9. Pennington, S. E., International Literacy Association Annual Conference, "The influence of language Arts instructional practices on early adolescents' motivation to read: Measuring student and teacher perceptions," International Literacy Association, Austin, TX. (July 22, 2018).
10. Willoughby, S., Green, J., Sterman, L., Hughes, B. E., & LaMeres, B., American Association of Physics Teachers, "Quantifying Jargon," Provo, UT. (July 22, 2019).

11. Willoughby, S., Hughes, B. E., Sterman, L., Organ, C., LaMeres, B., & Green, J., American Association of Physics Teachers, "STEM Storytellers: Improving graduate students' oral communication skills," Washington, DC. (August 1, 2018).
12. Windchief, S. (Author & Presenter), do Amaral, B. (Author), & Jeffers, P. (Author), American Indian Science and Engineering Society, "Finding Turtle Island's Lightning Brain; Indigenous Storytelling Pedagogy in Computer Science," AISES, Milwaukee WI. (October 11, 2019).

### **Uncategorized Presentation Type**

Maxwell, B. (Leader), Brody, M. (Co-Chair), Debinski, D. M. (Co-Chair), Hubbard, M. S. (Co-Chair), Sterling, T. (Co-Chair), Gathering Input from 25 NGOs and Govt Agencies for NRT Feb 18 submission, "NSF NRT Graduate Training Needs Assessment Workshop," NSF NRT co-PIs at MSU, Bozeman. (January 8, 2018).

Stanton, C., "Qualitative Research II," Montana Engineering Education Center. (March 26, 2018).

### **C. Sponsored Programs**

#### **1. New Grants Secured between January 1, 2018 - December 31, 2019**

Conger, J. (Principal), Pennington, S. E. (Co-Principal), "Dyslexia and Innovation," Sponsored by MSU Vice President for Research (MONVIC001). (June 1, 2018 - June 1, 2021).

Downey, J. (Principal), "Rural Lessons: Early Career Teachers in Rural Contexts Share Advice for Teacher Preparation Programs, Professors, and Future Rural Teachers," Sponsored by MSU Vice President for Research (MONVIC001). (July 1, 2018 - June 30, 2019).

Downey, J. (Principal), "Downey--Faculty Excellence Grants Program Proposal," Sponsored by MSU Provost Office (MONPRO003). (July 1, 2018 - May 15, 2019).

Downey, J. (Principal), Ewbank, A. (Co-Principal), Luebeck, J. (Co-Principal), Versland, T. (Co-Principal), Waterton, N. P. (Co-Principal), Wickstrom, M. H. (Co-Principal), Wilson, S. (Co-Principal), "Building Capacity, Collaboration, and Innovation in Rural Education Research and Practice," Sponsored by MSU Vice President for Research (MONVIC001). (January 7, 2018 - June 30, 2018).

Ellsworth, A. (Principal), "Linguistic Knowledge for a New Generation of Teachers," Sponsored by MSU Provost Office (MONPRO003). (September 1, 2018 - September 30, 2018).

Johnson, R. (Principal), Downey, J. (Co-Principal), Lachapelle, P. (Co-Principal), Mast, S. (Co-Principal), Mukhopadhyay, J. (Co-Principal), Ricciardelli, L. (Co-Principal), Seifert, T. (Co-Principal), "Prototype Housing for Rural School Districts," Sponsored by MSU Vice President for

Research (MONVIC001). (July 1, 2018 - June 30, 2019).

Stanton, C. (Principal), "The Digital Storywork Partnership: Expanding Community-Led Research and Education," Sponsored by MSU Vice President for Research (MONVIC001). (July 1, 2018 - June 30, 2019).

## 2. Other Grants Active between January 1, 2018 - December 31, 2019

Gamble, J. K. (Co-Principal), Newhouse, M. (Principal), Austin, C. (Co-Principal), Cook, J. M. (Co-Principal), Croy, E. (Co-Principal), Gamble, J. K. (Co-Principal), Ricciardelli, L. (Co-Principal), Rutherford, A. C. (Co-Principal), Sobek, D. (Co-Principal), Stanton, C. (Co-Principal), Zignego, J. (Co-Principal), "DSEL: Design Sandbox for Engaged Learning," Sponsored by MSU Vice President for Research (MONVIC001). (July 1, 2016 - June 30, 2019).

## D. Research in Progress & Other Funded Activities

### 1. New Research or Non-OSP Funded Activities between January 1, 2018 - December 31, 2019

Aiken, Estee, Downey, Jayne. "CEEDAR Support for Montana's Higher Education Consortium". Sponsored by Collaboration for Effective Educator Development, Accountability, and Reform (CEEDAR) Center. (October 2018 - September 2019).  
Funding to support implementation and assessment of appropriate program-level strategies to increase the use of High Leverage Practices for all Montana students, including students with disabilities and culturally and linguistically diverse learners, in educator preparation programs (general education, special education, and leadership) and in-service professional development opportunities. **Current Funding: \$25,000.00**

Brody, Michael. "Russian and Siberian Studies for Educators". Sponsored by Indiana University Center for Eastern European and Russian Studies. (January 2019 - December 2022).  
Part of Title 4 US Dept of Education Grant to Indian University **Current Funding: \$28,000.00**

Carjuzaa, Jioanna, Ruff, William, Henderson, David, Bangert, Arthur. "Montana Teachers of English Language Learners (MontTELLs)". Sponsored by U.S Department of Education. (August 2016 - August 2021).  
**Current Funding: \$2,700,000.00**

### 2. Internal (MSU or EHHD grants) between January 1, 2018 - December 31, 2019

Carjuzaa, Jioanna. "Class 7 Professional Development Workshops". Sponsored by College of EHHD, End of Year Requests. (February 14, 2019 - May 31, 2019).  
To continue to support the revitalization and maintenance efforts for the critically endangered Indigenous languages in Montana, I would like to reach out to Class 7 teachers and other

language instructors to help them develop or expand their immersion language programs by providing a professional development workshop. I would hire CBME Advisory Council members who are Class 7 certified to accompany me to present on the following topics: lesson/unit planning, curriculum materials design, classroom management, and assessment. I would schedule one Saturday workshop in Bozeman between April 13th and May 11th. The workshop will be scheduled on a Saturday so that working teachers could attend. I would like to provide \$500 honorariums for each of 3 presenters for the workshop. I would like to provide a \$50 gas card to attending participants to cover their travel costs as well as cover their hotel costs. I would invite 25 participants from across the state. Registration would be on a first come basis. I would hold the workshop at the hotel where I book everyone's hotel stay. I would invite Bill Ruff and Bill Mendoza to attend and I would ask Kayce Williams to tape the workshop so that we could share the sessions on the CBME web site. **Current Funding: \$6,550.00**

Carjuzaa, Jioanna. "Indian Education for All (IEFA) 2018 Fall Workshop: Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs". Sponsored by MSU Office of the President. (August 17, 2018 - November 2, 2018).

Through a Spencer Foundation Grant the Center for Bilingual and Multicultural Education was awarded, I was able to negotiate with Cogent Education to publish a special journal issue titled Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs (<https://www.cogentoa.com/collection/revitalization-of-indigenous-languages-designing-and-facilitating-immersion-programs>). I invited the experts and scholars from the Class 7 conference I hosted in Bozeman, in the summer of 2016 to contribute to this special issue. Then through a grant from the Western Educational Equity Assistance Center (WEEAC) at the Metropolitan State University of Denver, I was awarded funding to deliver a webinar series based on the articles the invited experts and scholars wrote for the Cogent Education special issue (contributors to the series are listed below). Language and culture instructors across the country have participated in our webinar series.

Then I coordinated with Emma Dyksterhouse and Maggie Hayes in the Office of the President at MSU to bring the scholars to campus on September 27-28, 2018 to present for my IEFA Fall workshop and for the Council of Elders meeting. **Current Funding: \$8,165.12**

Carjuzaa, Jioanna. "Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs". Sponsored by Western Educational Equity Assistance Center (WEEAC) at the Metropolitan State University of Denver, (March 13, 2018 - May 1, 2018).

All of the contributors to the Cogent Education special journal issue titled Revitalization of Indigenous Languages: Designing and Facilitating Immersion Programs will be sharing their research through a webinar series. The contributors were the invited experts and scholars for the Class 7 conference held in Bozeman, MT the summer of 2016. Through a grant from the Western Educational Equity Assistance Center (WEEAC) at the Metropolitan State University of Denver, we were awarded funding to create and deliver a webinar series based on the articles the invited experts and scholars wrote for this special issue.

We would like to share these webinars, with you, and other Class 7 and language instructors across Montana and in your communities. Please feel free to forward this message to other Indigenous language revitalization supporters. We will start presenting the webinars consecutively on Tuesdays starting March 13th through May 1st. Dr. Martin Reinhardt has volunteered to present first on Tuesday, March 13th at 4:00 pm MST. We will be delivering the webinars every

Tuesday for 8 weeks, as indicated on the chart below. We will be offering OPI renewal units for participants. **Current Funding: \$4,000.00**

Dotson, Lauren, Schure, Mark, Miles, Mary, Hamilton, Tina. "Trauma-Informed Practices to Improve Middle Level Academic Outcomes". Sponsored by CAIRHE (Montana State University). (November 16, 2018 - Present).

Through this community-based, participatory, and interdisciplinary research project, the collaborators plan to use multiple assessment measures (cortisol testing, academic assessment, etc.) to determine whether mindfulness, trauma-informed yoga, web-based cognitive behavioral therapy, and adult support structures implemented within the school setting improve middle level student stress and academic behaviors and achievement.

Dotson, Lauren. "EHHD Integrating Research, Teaching, and Community Engagement Grant". Sponsored by College of Education, Health, and Human Development-Montana State University. (October 2018 - Present).

EHHD seed grant for integrating research, teaching, and community engagement **Current Funding: \$10,000.00**

Downey, Jayne, Luebeck, Jennifer, Versland, Tena, Ewbank, Ann, Wickstrom, Megan H., Wilson, Sarah, & Waterton, Nigel P. "Building Capacity, Collaboration, and Innovation in Rural Education Research and Practice". Sponsored by MSU VPRED (MONVIC001) and President's office. (June 2018 - Present).

NOTE: Funding was expected in June 2018 but delayed until January 2019. VPRED states "Yours will receive support from the President's office and we have also pledged \$20,000 to support this work." Funding from President is TBD.

Proposal for VPRED Research Expansion Funding with 4 goals:

1. Design and conduct a set of discovery research activities to systematically and empirically investigate anecdotal claims of impact and effectiveness resulting from 4 rural-specific programs: Rural Student Teaching; Rural Practicum; Rural Field Experience; Rural Professional Learning for STEM teachers.
2. Collect and analyze new data from additional offerings of the Rural Student Teaching, Practicum, and Field Experience programs with an embedded research design that includes data gathered from all stakeholder groups before, during, and after the experiences.
3. Form an interdisciplinary team at MSU to design and pilot further research to address pressing needs of rural teachers, schools, and communities (e.g., factors influencing teachers' decisions to work and remain in rural settings, effective preparation and professional development strategies, successful models of online/blended professional learning for rural STEM teachers).
4. Leverage results from previous work and new data for procurement of long-term research funding from federal and nonprofit sources (e.g, USDOE, NSF, Spencer Foundation, USDA).

**Current Funding: \$20,000.00**

Downey, Jayne. "Innovative Technology to Transform Rural Teacher Preparation, Recruitment, and Retention". Sponsored by EHHD Transformational Teaching Mini-Grant. (2018 - 2019).

Funding to launch an innovative pilot teaching project to assess the impact of robotic-video-assisted learning to strengthen MSU's efforts to prepare, recruit, and retain highly effective teachers for Montana's rural schools and communities. **Current Funding: \$3,916.00**

Ellsworth, Ann, & Ewbank, Ann. "Transforming Study-Abroad: Bookmaking as Reflection and Celebration". Sponsored by EHHD Transformational Teaching Mini-Grant. (March 9, 2018 - April 24, 2018).

We provided a capstone experience for our 13 study-abroad students that invited journaling, reflection, and creative expression. **Current Funding: \$2,321.00**

Hammack, Rebekah J. "Development of the Draw-An-Engineering-Teacher Test". Sponsored by College of Education, Health, and Human Development. (September 2018 - Present).

The current study, works to add to the a set of Draw-A-Teacher Tests by developing a Draw-An-Engineering Teacher Test (DAETT) to identify teachers' mental images of engineering teaching. Specifically, the study seeks to identify what mental images participants hold of themselves teaching engineering at the elementary level. **Current Funding: \$10,000.00**

Hammack, Rebekah. "Building Partnerships with Rural School Communities through Family Engineering Nights". Sponsored by College of Education Health and Human Development. (May 1, 2019 - June 30, 2019).

This project provides funds for in-state travel and materials to host Family Engineering Night events at rural schools in Montana. The goal of the project is to improve relationships with community partners in small rural communities throughout southwest Montana. **Current Funding: \$5,149.00**

Pennington, Sarah E. "The effect of a melodic learning reading intervention on reading achievement and motivation to read". Sponsored by College of Education, Health, and Human Development. (May 2018 - September 2018).

This study seeks to investigate the effects on students' reading achievement and motivation to read, of a reading innovation that engages students in repeated reading through singing. This intervention, called Tune in to Reading (TiR), uses a computer interface to guide students in repeated readings (through singing) of songs at their reading level. The program adapts the level of the texts based on students' ability to respond correctly to comprehension questions about the texts read (sung). It has been utilized in a variety of school settings in the eastern United States, including urban and suburban elementary and middle schools and juvenile justice facilities. However, little research regarding this intervention has been conducted within a rural context. In addition, none of the previous research regarding this intervention has investigated possible relationships between participation in the intervention and students' motivation for reading. **Current Funding: \$10,750.00**

Seifert, Tricia. "Gaming Your First Year of College". Sponsored by College of Education, Health & Human Development. (March 2018 - June 2019).

This project funded the development of a board game prototype to assist high school students in the transition to college. **Current Funding: \$5,187.00**

Versland, Tena, Downey, Jayne. "The Rural Practicum". Sponsored by VPRED; President's Office. (June 20, 2018 - Present).

Money was given to Center for Research on Rural Education to expand the Rural Practicum and Field Experience programs for placing undergraduate education students in rural schools for clinical practice. These funds were given as a result of President Cruzado's Bus Tour of 2018 and visits to rural practicum sites in NE Montana. **Current Funding: \$32,000.00**

#### **IV. FACULTY RECOGNITION, HONORS, AND AWARDS**

##### A. Regional and National Offices

###### *Carjuzaa, Jioanna*

Awarded - 2018 MIEA Special Recognition Award, Montana Indian Education Association (MIEA), April 5, 2018. Recognition type: Leadership. Scope: State.

###### *Ellsworth, Ann*

Nominated - Distinguished Teaching Award, April 5, 2019. Recognition type: Teaching. Scope: National.

Awarded - 2019 Grammar Teacher of the Year Award, National Council of Teachers of English, March 17, 2019. Recognition type: Teaching. Scope: National.

Awarded - Influential Educator, Alpha Gamma Delta, April 9, 2018. Recognition type: Leadership. Scope: Department.

Awarded - Award for Excellence in Teaching, MSU Chamber of Commerce-Alumni Foundation, February 16, 2018. Recognition type: Teaching. Scope: University.

Awarded - Faculty With the Most Excellence Awards, Montana State University, February 16, 2018. Recognition type: Teaching. Scope: University.

Awarded - Excellence in Online Teaching Award, Montana State University, January 7, 2018. Recognition type: Teaching. Scope: University.

###### *Ewbank, Ann*

Nominated - Cox Faculty Award for Creative Scholarship and Teaching, Montana State University, November 2018. Recognition type: Scholarship/Research. Scope: University.

Nominated - Phi Kappa Phi Anna K. Fridley Award, Montana State University, November 2018. Recognition type: Teaching. Scope: University.

Awarded - Champion Award, Montana Library Association, April 2018. Recognition type: Engagement, Outreach or Service. Scope: State.

###### *Hammack, Rebekah*

Nominated - SSMA Dissertation Award Nomination, School Science and Mathematics Association, 2018. Recognition type: Scholarship/Research. Scope: National.

###### *Hicks, James*

Awarded - Awards for Excellence-Faculty Mentor, MSU Alumni Foundation & Bozeman Area Chamber of Commerce, February 18, 2019. Recognition type: Engagement, Outreach or Service. Scope: University.

Awarded - Awards for Excellence-Faculty Mentor, MSU Alumni Foundation & Bozeman Area Chamber of Commerce, February 16, 2018. Recognition type: Engagement, Outreach or Service. Scope: University.

*Hughes, Bryce*

Awarded - Scholarship and Discovery Award, Department of Education, May 7, 2018. Recognition type: Scholarship/Research. Scope: Department.

Awarded - Lavender Leader Award, Diversity and Inclusion Student Commons, May 3, 2018. Recognition type: Engagement, Outreach or Service. Scope: University.

*Kalonde, Gilbert*

Awarded - Outstanding Paper Award, Society for Information Technology and Teacher Education (SITE), March 19, 2018. Recognition type: Leadership. Scope: International.

*Myers, Carrie*

Nominated - Charles and Nora Wiley Award for Meritorious Research, Provost's Office, December 2018. Recognition type: Scholarship/Research. Scope: University.

Nominated - Provost's Award for Graduate Research Mentoring, Provost's Office, December 2018. Recognition type: Scholarship/Research. Scope: University.

*Pennington, Sarah*

Nominated - Timothy & Cynthia Shanahan Outstanding Dissertation Award, International Literacy Association, July 21, 2018. Recognition type: Scholarship/Research. Scope: International.

Awarded - Outstanding Teaching & Learning, Department of Education, Montana State University, May 7, 2018. Recognition type: Teaching. Scope: Department.

*Seifert, Tricia*

Awarded - National Student Clearinghouse Research Center Award for Outstanding AACRAO SEM Research Presentation, AACRAO, November 2018. Recognition type: Scholarship/Research. Scope: National.

*Smetana, Lorca*

Awarded - Faculty/Staff 2019 Award for Excellence, Montana State University Alumni Foundation, February 19, 2019. Recognition type: Teaching. Scope: University.

*Stanton, Christine*

Nominated - Early Career Scholars Award, American Educational Research Association, Social Studies Research Special Interest Group, 2019. Recognition type: Scholarship/Research. Scope: International.

Nominated - Outstanding Paper Award, American Educational Research Association, Social Studies Research Special Interest Group, 2019. Recognition type: Scholarship/Research. Scope: National.

Nominated - Social Justice in Education Award, American Educational Research Association, 2019. Recognition type: Leadership. Scope: International.

Awarded - Teresa Veltkamp Advocacy Award for Excellence in Indian Education for All, Montana's Office of Public Instruction, 2019. Recognition type: Engagement, Outreach or Service. Scope: State.

Awarded - Provost's Distinguished Lecture Series Speaker, MSU Provost, October 2019. Recognition type: Scholarship/Research. Scope: Local.

Nominated - Fox Faculty Award for Accomplishments in Teaching, Research/Creative Activity, and Mentorship, MSU Provost, 2018. Recognition type: Scholarship/Research. Scope: University.

Awarded - James and Mary Ross Provost's Award for Excellence, MSU Provost, 2018. Recognition type: Scholarship/Research. Scope: University.

Nominated - Provost's Award for Undergraduate Research/Creative Mentoring, MSU Provost, 2018. Recognition type: Scholarship/Research. Scope: University.

Awarded - National Technology Leadership Initiative Award, College and University Faculty Assembly of the National Council for Social Studies, November 2018. Recognition type: Leadership. Scope: National.

Awarded - Fellow, Center for Bilingual and Multicultural Education, July 2018. Recognition type: Scholarship/Research. Scope: University.

Awarded - Prize for Outstanding Oral History Practice, Canadian Oral History Association, May 2018. Recognition type: Scholarship/Research. Scope: International.

*Versland, Tena*

Awarded - Faculty Excellence Grant, Office of the Provost, May 1, 2019. Recognition type: Scholarship/Research. Scope: International.

Nominated - Nominated for Provost Award for Excellence in Outreach, Montana State University, December 5, 2018. Recognition type: Engagement, Outreach or Service. Scope: State.

# Department of HHD Research Productivity Report

2018

## Narrative Summary

The Health and Human Development Department (HHD) is one of the largest, most diverse departments at Montana State University, Bozeman, with eight undergraduate programs, three undergraduate minors, one undergraduate certificate, six graduate programs, and one graduate certificate. The department houses 923 undergraduate students and 158 graduate students. In addition to the department's academic programs the department houses – The Early Childhood Project, Team Nutrition, Towne's Harvest, The Child Development Center and the Human Development Clinic. These outreach programs are funded through grants, state funds and user fees. Finally, the department houses three extension agents who specialize in wellness, family consumer science and nutrition who also contribute to furthering the land grant mission.

The Department of Health and Human Development's mission statement- "Enriching Human Well-being in Teaching, Research and Service."- is central to fusing a variety of disciplines and research projects in a diverse department. The following report specifies the activity undertaken in research in the calendar year 2018.

## Major Accomplishments in 2018

- Student engagement- Faculty in HHD published 39 intellectual publications and conducted 59 presentations with MSU students.
- Editorial review boards- Faculty served on 16 editorial review boards for a variety of journals and academic disciplines. Four HHD faculty serve as editors of journals.
- Engaged in a department wide process to explore, discuss and agree upon new structure to support the increasing growth within Health and Human Development. The result was the development of teams to include 4 team coordinators who serve on the HHD Management Team.

## Goals:

- Implement the organizational structure established in 2018 with the development of new roles and responsibilities for team coordinators and program leaders.
- Develop a mentoring program to support not only new faculty, but associate and full professors in transition.
- Develop more structure, communication and correct indexing of course buyouts when faculty are on grants.
- Engage in more ongoing professional development to reach out to faculty in a variety of life transitions.

**Full-time Tenure Track and Non-tenure Track Faculty**

Faculty	Department	Rank	Tenure Status
Selena Ahmed	HHD	Associate Professor	Tenured
Melody Anaker	HHD	Instructor	Non-Tenure
Jody Bartz	HHD	Assistant Professor	Pre-tenure
Hillary Becker	HHD	Instructor	Non-Tenure
James Becker	HHD	Assistant Professor	Pre-tenure
Kalli Decker	HHD	Assistant Professor	Pre-tenure
Anna Diffenderfer	HHD	Instructor	Non-Tenure
Edward Dunbar	HHD	Assistant Professor	Pre-tenure
Anna Elliott	HHD	Assistant Professor	Pre-tenure
Kathryn Franklin	HHD	Instructor	Non-Tenure
Janet Gamble	HHD	Instructor	Non-Tenure
Marcy Gaston	HHD	Assistant Teaching	Non-Tenure
Michelle Groke	HHD	Assistant Professor	Pre-tenure
Alison Harmon	HHD	Professor	Tenured
Deborah Haynes	HHD	Associate Professor	Tenured
Daniel Heil	HHD	Professor	Tenured
Suzanne Held	HHD	Professor	Tenured
Holly Hunts	HHD	Associate Professor	Tenured
Kara Hurt Avila	HHD	Assistant Professor	Pre-tenure
Mary Jane Kabaci	HHD	Instructor	Non-Tenure
Coleen Kaiser	HHD	Instructor	Non-Tenure
Sun-Hwa Kim	HHD	Assistant Professor	Pre-tenure
Daniel Koltz	HHD	Instructor	Non-Tenure

Rebecca Koltz	HHD	Associate Professor	Tenured
Wan-Yuan Kuo	HHD	Assistant Professor	Pre-tenure
Christine Lux	HHD	Assistant Professor	Pre-tenure
Colleen McMilin	HHD	Assistant Professor	Pre-tenure
Mary Miles	HHD	Professor	Tenured
Wendy Morrison	HHD	Instructor	Non-tenure
Mark Nelson	HHD	Professor	Tenured
Sandra Osborne	HHD	Associate Professor	Tenured
Elizabeth Rink	HHD	Professor	Tenured
Brianna Routh	HHD	Assistant Professor	Pre-tenure
Mark Shure	HHD	Assistant Professor	Pre-tenure
Carmen Byker Shanks	HHD	Associate Professor	Tenured
Vanessa Simonds	HHD	Associate Professor	Tenured
Mary Stein	HHD	Instructor	Non-tenure
Craig Stewart	HHD	Professor	Tenured
Dawn Tarabochia	HHD	Associate Professor	Tenured
J. Mitchell Vaterlaus	HHD	Associate Professor	Tenured
Nicole Wanago	HHD	Instructor	Non-Tenure

**Publication (34)**

**Book Chapters (3)**

**Extension Publications (5)**

**Non-reviewed Materials (4)**

**Plenary Address (7)**

**Oral Address (68)**

**Other (5)**

**Paper (1)**

**Poster (46)**

### Peer Reviewed Publications (34)

1. Ahmed, S., Huang, H. (2018). 2014-2016 Seasonal Rainfall Effects on Metals in Tea (*Camellia sinensis* (L.) Kuntze). *Chemosphere*, 219, 796-803.
2. Ahmed, S., Byker, C., Lewis, M., Leitch, A., Spencer, C., Smith, E., Hess, D. (2018). Meeting the Food Waste Challenge in Higher Education. *International Journal of Sustainability in Higher Education*.
3. Becker, J. N., Nakajima, M., Wu, W. (2018). Factors Contributing to the Development of Medial Tibial Stress Syndrome in Runners: A Prospective Study. *Medicine and Science in Sports and Exercise*, 50(10), 2092-2100.
4. Becker, J. N. (2018). New Hypotheses and Unanswered Questions in Running Injury Research. Comment on Nigg et al. *Current Issues in Sports Science*, 3, 1-4.
5. Becker, J. N., James, S., Osternig, L., Chou, L.-S. (2018). Foot Kinematics Differ Between Runners with and without a History of Navicular Stress Fracture. *Orthopaedic Journal of Sports Medicine*, 6(4).
6. Brown, B., Harris, K. J., Heil, D., Tryon, M., Cooksley, A., Semmens, E., Davis, J., Gandhi, K. (2018). Feasibility and outcomes of an out-of-school and home-based obesity prevention pilot study for rural children on an American Indian reservation. *Pilot and Feasibility Studies*, 4, 129-141. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6062940/>
7. Byker, C., Ahmed, S., Smith, T., Shanks, J. D. Fruit and vegetable desirability is lower in more rural built food environments of Montana, USA using the Produce Desirability (ProDes) Tool. *Food Security: The Science, Sociology and Economics of Food Production and Access to Food*, 10(1), 169-182. <https://link.springer.com/article/10.1007/s12571-017-0748-1>
8. Flores, V., Becker, J. N., Burkhardt, E., Cotter, J. Knee Kinetics During Squats of Varying Loads and Depths in Recreationally Trained Females. *Journal of Strength and Conditioning Research*.
9. Grimberg De Menalled, B., Ahmed, S., Ellis, C., Miller, Z., Menalled, F. (2018). "Climate Change Perceptions and Observations of Agricultural Stakeholders in the Northern Great Plains. *Sustainability*, 10(5), 17.
10. Grocke, M. U., McKay, K. H., Foor, T. (2019). Subjective Well-Being in Two Himalayan Communities, Post Road Development. *Himalaya*, 39(1/7).

<https://digitalcommons.macalester.edu/himalaya/vol39/iss1/7>

11. Grocke, M. U., Haddix McKay, K. (2018). After the Road Came: Insights into the Nexus of Food Security and Malnutrition in Northwestern Nepal. *Mountain Research and Development/International Mountain Society*, 38(4), 288-298.
12. Heil, D., Newton, R. U., Salle, D.D. A. (2018). Characterizing the Metabolic Intensity and Cardiovascular Demands of Walking Football in Southeast Asian Women. *International Journal of Physical Education, Fitness and Sports*, 7(3), 12-23.  
<https://ijpefs.com/index.php/ijpefs/article/view/229>
13. Hensen, B., Koltz, R. (2018). Counseling Older Men: Best Practices for Group Counseling. *Adulthoodspan*, 17(2), 97-108.
14. LaVeaux, D., Simonds, V., Pickett, V., Cummins, J., Calkins, E. (2018). Developing a Curriculum for Change: Water & Environmental Health Literacy in a Native American Community. *Progress in Community Health Partnerships: Research, Education, and Action*, 12(4), 441-449.
15. Langlais, M. R., Asay, S., Walker, A., Vaterlaus, J. M. (2018). The benefits of family science education: The male perspective. *Journal of Human Sciences and Extension*, 6, 137-150.
16. Lux, C., Tarabochia, D., Barben, E. Intergenerational Program Perceptions: Teachers, Children, Residents, and Staff. *Journal of Intergenerational Relationships*.
17. Mejia, L. A., Kuo, W.-Y., Beltran-Velazquez, F. Provision of micronutrients in coexisting public health programmes and risk of excessive intake: Regulatory considerations. *Ann NY Acad Sci*, 1-15.
18. Nelson, M., Tarabochia, D. (2018). Application of character development with students on the autism spectrum. *Journal of School Counseling*, 16(27), 1-29.
19. Quintero, G., Bundy, H., Grocke, M. U. (2019). "I Want to See Those Memories": Social Affordances of Mobile Phone Cameras and Social Network Sites in Collegiate Drinking. *Contemporary Drug Problems*, 1-18.
20. Routh, B., Hurt, T., Winham, D., Lanningham-Foster, L. Family legacy of diabetes-related behaviors: An exploration of the experiences of African American parents and adult children. *Global Qualitative Nursing Research*(eCollection 2019 Jan-Dec).
21. Sano, Y., Routh, B., Lanigan, J. Food parenting practices in rural low-income families. *Appetite*.

22. Schure, M. B., Howard, M., Bailey, S., Greist, J. Exploring perceptions of a computerized cognitive behavior therapy program in a U.S. rural Western state. *Journal of Rural Mental Health*.
23. Scott, E., Ahmed, S. (2018). Interactive Effects of Drought Severity and Simulated Herbivory on Tea (*Camellia sinensis*) Volatile and Non-volatile Metabolites. *Environmental and Experimental Botany*, 157, 283-292.
24. Simonds, V., Rudd, R., Margetts, M. Expanding environmental health literacy—A focus on water quality and tribal lands. *Journal of Health Communication*.
25. Simonds, V., Kim, F., LaVeaux, D., Pickett, V., Cummins, J., Milakovich, J. Guardians of Living Water: Using a Health Literacy Framework to Evaluate a Child as Change Agent Intervention. *Health Education and Behavior*. <https://journals-sagepub-com.proxybz.lib.montana.edu:3443/doi/pdf/10.1177/1090198118798676>
26. Stewart, C. (2018). 3. Stewart, C. (2018) Coach education in rural Northwestern states: 25 years of progress. *Research Quarterly for Exercise Science and Sport*, 88,, A133-A134..
27. Stoy, P., Ahmed, S., Jarchow, M., Rashford, B., Swanson, D., Albeke, S., Bromley, G., Brookshire, E., Dixon, M., Haggerty, J., Miller, P., Peyton, B., Royem, A., Spangler, L., Straub, C., Prigge, J. (2018). Opportunities and tradeoffs among BECCS and the food, water, energy, biodiversity, and social systems nexus at regional scales. *Bioscience*, 10.1093/biosci/bix145. <https://academic.oup.com/bioscience/article-lookup/doi/10.1093/biosci/bix145>
28. Tulane, S., Vaterlaus, J. M., Beckert, T. E. (2018). A mixed methods examination of examination of adolescents reasons for pretending to text. *Journal of Adolescence*, 69, 175-179.
29. Vaterlaus, J. M., Frantz, K., Robecker, T. (2019). "Reliving my dream of being a Pokemon trainer": An exploratory study of college student uses and gratifications related to Pokemon Go. *International Journal of Human-Computer Interaction*, 35, 596-604.
30. Vaterlaus, J. M., Cottle, N. M., Patten, E. V., Gibbons, R. (2018). Understanding Customers: The Jobs to Be Done Theor Applied in the Context of a Rural Food Pantry. *Journal of the Academy of Nutrition and Dietetics*, 118, 1895-1902.
31. Vaterlaus, J. M., Tulane, S., Porter, B. D., Beckert, T. E. (2018). The perceived influence of media and technology on adolescent romantic relationships. *Journal of Adolescent Research*, 33, 651-671.

32. Vidal, A., Nakajima, M., Wu, W., Becker, J. N. (2018). Movement Screens: Are We Measuring Movement Dysfunction or Movement Skill. *International Journal of Sport Science and Coaching*, 13(5), 771-778.
33. Zhu, W., Heil, D. (2018). Associations of vitamin D status with markers of metabolic health: a community-based study in Shanghai, China. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 12, 727-732.  
<https://www.sciencedirect.com/science/article/abs/pii/S187140211830105X?via%3Dihub>
34. Zhu, W., Heil, D., Lankford, D. E., Reece, J. (2018). The Metabolic Demands of Culturally-Specific Polynesian Dances. *International Journal of Exercise Science*, 11(4), 1156-1172.  
<https://digitalcommons.wku.edu/ijes/vol11/iss4/24/>

### **Contributing Book/Monograph Chapters (3)**

1. Nelson, M. (2018). *The school counselor's guide: Guidance curriculum activities – academic development*. Beijing: Beijing Capital University Publishing House.
2. Nelson, M. (2018). *The school counselor's guide: Guidance curriculum activities – career development*. Beijing: Beijing Capital University Publishing House.
3. Nelson, M. (2018). *The school counselor's guide: Guidance curriculum activities – personal/social development*. Beijing: Beijing Capital University Publishing House.

### **MAES, Extension Publications (5)**

1. Bailey, S., Moore, K. *Grandparents Raising Grandchildren: Learning to be an advocate for your grandchild* (MT201812HR ed., pp. 4). Bozeman: MSU Extension.  
[https://store.msuxtension.org/Products/Grandparents-Raising-Grandchildren-Learning-to-be-an-Advocate-for-your-Grandchild\\_\\_MT201812HR.aspx](https://store.msuxtension.org/Products/Grandparents-Raising-Grandchildren-Learning-to-be-an-Advocate-for-your-Grandchild__MT201812HR.aspx)
2. Bass, T., Schumacher, J., Byker, C., Roth, A. C., Gamble, J. (2018). *MontGuide: Getting Started with Beef to School* (pp. 6). Bozeman: MSU Extension Publications.
3. Byker, C., Roth, A. C., Bass, T., Schumacher, J., Gamble, J. (2018). *Moving Forward: Montana Beef to School Program Case Studies* (pp. 6). Bozeman: MSU Extension Publications.
4. Finch, K. O., Bailey, S. (2018). In Jackie Rumph, Kelly Moore and April McLean (Ed.), *Grandparents Raising Grandchildren: Navigating the Resources* (MT201813HR ed., pp. 8).

Bozeman, Montana:

<http://msuextension.org/publications/HomeHealthandFamily/mt201813HR.pdf>

5. Rumph, J., Bailey, S. *Kinship Care Families: Navigating the Incarceration of a Parent* (MT201818HR ed., pp. 4). Bozeman, MT: MSU Extension MontGuide.  
<https://www.msuextension.org/publications/HomeHealthandFamily/MT201818HR.pdf>

#### **Other Reviewed and Non-Reviewed Materials (4)**

1. Bailey, S., Letiecq, B., Visconti, K., Tucker, N. (2019). *Rural Native and European American Custodial Grandparents: Stressors, Resources, and Resilience* (2nd ed., vol. 34, pp. 131-148). *Journal of Cross-Cultural Gerontology*.
2. Lux, C. (2018). *Harvest of the Month for Early Care and Education*. Montana Office of Public Instruction, Montana Team Nutrition, National Center for Appropriate Technology, Montana State University Extension, Gallatin Valley Farm to School, and Montana Food Corps.
3. Rawson, E. S., Miles, M., Larson-Meyer, D. E. (2018). *Dietary Supplements for Health, Adaptation, and Recovery in Athletes* (2nd ed., vol. 28, pp. 188-199). *INTERNATIONAL JOURNAL OF SPORT NUTRITION AND EXERCISE METABOLISM*.
4. Roth, A. C., Byker, C., Bass, T., Schumacher, J., Gamble, J. (2018). *Montana Beef to School Frequently Asked Questions* (pp. 14). Bozeman:.  
[http://www.montana.edu/mtfarmtoschool/documents/beef-to-school/MTBeefToSchool\\_FAQ\\_Final.pdf](http://www.montana.edu/mtfarmtoschool/documents/beef-to-school/MTBeefToSchool_FAQ_Final.pdf)

#### **Keynote/Plenary Address (7)**

1. Ahmed, S., Byker, C., Cafe Scientifique, Montana INBRE, "How' bout them Apples: Food Environments and Their Effect on What You Eat," Montana INBRE. (March 2018).
2. Ahmed, S., Re:Co Symposium of the Specialty Coffee Association, "Harnessing the Power of Science," Specialty Coffee Association, Seattle. (April 2018).
3. Ahmed, S., United Nations Food and Agriculture Organization Intergovernmental Group on Tea and Tea Research Institute, "The Taste of Climate Change: Sustainability Lessons from Farmers of Tea Agroforests," China. (2018).

4. Hunts, H. (Coordinator/Organizer), Dunkel, F. (Coordinator/Organizer), Antelope, D. (Author & Presenter), Reed, H. (Author & Presenter), Bird Rattler, T. (Author & Presenter), Old Elk, W. (Author & Presenter), Grant dollars at work: PATHS, "Pathways to Agriculture and Native Foods Tribal Health Sovereignty," United States Department of Agriculture - National Institute of Food and Agriculture, Washington, DC. (June 26, 2018).
5. Kim, S.-H. (Author & Presenter), "Does Eco-friendly matter," Montana Department of Agriculture, Great falls. (March 20, 2018).
6. Miles, M., American College of Sports Medicine Annual Meeting and 8th World Congress on Exercise is Medicine, "Exercise and Inflammation Phenotype Flexibility," American College of Sports Medicine, Minneapolis, MN. (June 2018).
7. Miles, M., Rocky Mountain American College of Sports Medicine regional conference, "Exercise, diet, and potential impacts of the gut microbiome on health," Rocky Mountain American College of Sports Medicine, Colorado Springs, CO. (April 2018).

### **Oral Presentations (68)**

1. Ahmed, S., Byker, C., Thornton, A., Sustainable Agriculture Education Association Meeting, "Integrating Diverse Worldviews for Addressing Wicked Food System Challenges Through Inclusive Curriculum," Sustainable Agriculture Education Association Meeting, Hawaii. (July 2018).
2. Bailey, S., Community Centered & Compassionate Scholarship Symposium, "Supporting Communities Who Work with Grandparents Raising Grandchildren," EHHD, Bozeman. (September 6, 2018).
3. Bailey, S. (Panelist), Denny, H. (Panelist), Mitchell, M. (Panelist), Montana Behavioral Institute, "Supporting the Families and Caregivers of Students Experiencing Homeless," Office of Public Education, Bozeman. (June 18, 2018).
4. Bailey, S., "Youth Aware of Mental Health," Montana State University Extension, Chinook & Havre, MT. (October 9, 2018).
5. Bartz, J. M., Applequist, K. (Presenter), Kondratuk, S. (Presenter), Division for Early Childhood, "From Imagination to Implementation of a Blended EC/ECSE Program: Transforming Faculty Mindsets," DEC, Orlando, FL. (October 24, 2018).
6. Becker, H. A.-S., Becker, J. N., 42nd Annual Meeting of the American Society of Biomechanics, "Guided Pre-Class Assignments Enhance Student Learning and Interest in Undergraduate Biomechanics," American Society of Biomechanics, Rochester, MN. (August 2018).
7. Becker, J. N., Borgia, B. (Author), 69th Annual Meeting of the American College of Sports Medicine, "Kinematics and Muscle Activity While Running in Minimalist, Neutral, and Ultra-Cushioning Shoes," American College of Sports Medicine, Minneapolis, MN. (May 2018).

8. Becker, J. N., Casillas, C. (Author), 6th International Foot and Ankle Biomechanics Congress, "Metatarsal Loading in Runners Who Habitually Use Rearfoot or Mid/Forefoot Strikes," International Foot and Ankle Biomechanics Society, New York, NY. (April 2018).
9. Casillas, C. (Author & Presenter), Becker, J. N. (Author), 6th International Foot and Ankle Biomechanics Congress, "Relationship Between Arch Height and Metatarsal Loading in Runners," International Foot and Ankle Biomechanics Society, New York, NY. (April 2018).
10. Decker, K. B. (Author & Presenter), Center for American Indian and Rural Health Equity (CAIRHE) group meeting, "Working with a team of students: Recruiting, delegating, and mentoring," Center for American Indian and Rural Health Equity (CAIRHE), Bozeman, MT. (January 23, 2018).
11. Decker, K. B. (Author & Presenter), Montana IDeA Network of Biomedical Research Excellence (INBRE) Research and Career Enhancement Workshop, "Current early intervention study successes, challenges, and future directions," INBRE, Bozeman, MT. (September 28, 2018).
12. Decker, K. B., Montana's Family Support Services Advisory Council, "Decker Early Childhood Research Team: Past, present, & future Montana Milestones studies," Helena, MT. (June 22, 2018).
13. Decker, K. B. (Author & Presenter), Jarvis-Belleville, A. (Author), Jorgensen, E. (Author), Meldrum, J. (Author), Presentation for Community Partner (Benchmark), "Montana Milestones research: Past, present, & future studies," Benchmark, Great Falls, MT. (June 20, 2018).
14. Decker, K. B. (Author & Presenter), Presentation for Community Partner (Child Development Center - Kalispell office), "Montana Milestones research: Past, present, & future studies," Child Development Center, Kalispell, MT. (September 24, 2018).
15. Decker, K. B. (Author & Presenter), Presentation for Community Partner (Child Development Center - Missoula office), "Montana Milestones research: Past, present, & future studies," Child Development Center, Missoula, MT. (September 24, 2018).
16. Decker, K. B. (Author & Presenter), Presentation for Community Partner (Family Outreach), "Challenges associated with Part C data collection in a large, rural state," Family Outreach, Bozeman, MT. (April 10, 2018).
17. Decker, K. B., Presentation for Gallatin County Health Department, "Supporting Families to Use Infant Signs: Research, recommended practices, and getting started," Gallatin County Health Department, Bozeman, MT. (June 19, 2018).
18. Dunbar, E. T. (Leader), Baker, J. (Presenter), Hardy, N. (Presenter), Big Sky Youth Empowerment (Local Community Agency), "Substance Use in Rural At Risk Youth," Big Sky Youth Empowerment, Bozeman Montana. (May 29, 2018).
19. Dunbar, E. T. (Leader), Dominick, L. (Leader), Big Sky Youth Empowerment (Local Community Agency), "Substance Use in Rural At Risk Youth," Big Sky Youth Empowerment, Bozeman Montana. (May 28, 2018).

20. Dunbar, E. T. (Author & Presenter), Department of Political Science Round table Series., "Opiate use in Rural Communities," MSU Department of Political Science. (February 21, 2018).
21. Dunbar, E. T. (Author & Presenter), Rocky Mountain Association of Counselor Educators and Supervisors, "Counselors Attitudes Toward Clients with Antisocial Personality Disorder," Association of Counselor Educators and Supervisors, Park City Utah. (October 5, 2018).
22. Elliott, A. H. (Author & Presenter), Murray, K. (Author & Presenter), Chan, C. (Author & Presenter), Rocky Mountain Association of Counselor Education and Supervision, "The Development of Culturally Responsive Counselors: Narratives of Counselor Educators," Association of Counselor Education and Supervision, Park City, UT. (October 6, 2018).
23. Greder, K. (Author & Presenter), Routh, B. (Author & Presenter), National Council on Family Relations, "Relations Among Stress and Health Risks Among Mexican Immigrant Families," San Diego, CA. (November 7, 2018).
24. Grocke, M. U., Andersen, K. (Author & Presenter), Extension Annual Conference 2018, "A Roadmap to 'Bike, Walk, Roll & Win': An MSU Extension Community-Based Physical Activity Incentive Program." (October 25, 2018).
25. Grocke, M. U., Routh, B., Extension Annual Conference 2018, "FCS Gold Star Programs and Evaluation Update," MSU Extension, MSU Campus, Bozeman, MT. (October 23, 2018).
26. Hunts, H. (Coordinator/Organizer), Stewart, T. (Author & Presenter), Nomee, C. (Author & Presenter), Reed, H. (Author & Presenter), 10th Annual NADC Economic Development and Procurement Conference, "Pathways to Agriculture and Native Foods Tribal Health Sovereignty," Native American Development Corporation, Billings, MT. (August 2, 2018).
27. Hunts, H., Project Directors Meeting - Research and Extension Experiences for Undergraduates, "Pathways to Agriculture and Native Foods Tribal Health Sovereignty," United States Department of Agriculture - National Institute for Food and Agriculture, Washington, DC. (April 11, 2018).
28. Hunts, H. (Author & Presenter), Coon, S. (Author & Presenter), Project Leader's Meeting, "Updates on Prevalence of Lactose Intolerance in Fort Peck Project," Montana IDEa Network for Biomedical Research Excellence, Bozeman, MT. (October 11, 2018).
29. Hunts, H. (Author & Presenter), Dratz, E. (Author & Presenter), Red Elk, L. (Author & Presenter), Nomee, C. (Author & Presenter), Root Summit, "Reasons to decolonize the diet.," Rocky Mountain Tribal Leaders Council., Billings, MT. (August 28, 2018).
30. Hurt-Avila, K. M., RMACES Bi-annual Conference, "Building Student Engagement in a Research Methods Course," Rocky Mountain Association of Counselor Educators and Supervisors, Salt Lake City, UT. (October 5, 2018).
31. Hurt-Avila, K. M., RMACES Bi-annual Conference, "Why do Q? Q Method for Research in Counseling," Rocky Mountain Association of Counselor Educators and Supervisors, Salt Lake City,

UT. (October 5, 2018).

32. Hurt-Avila, K. M., EHHD Research Seminar, "Q Methodology Primer," College of Education and Health and Human Development, 124 Reid. (January 26, 2018).
33. Keene, S. (Author & Presenter), Held, S. (Author), McCormick, A. (Author), Other Medicine, L. (Author), Schure, M. B. (Author), Pitts, M. (Author), Fimbel, L. (Author), American Public Health Association, "Monitoring Treatment Fidelity in an Indigenous Chronic Illness Self-Management Program," American Public Health Association, San Diego, CA. (November 14, 2018).
34. Kim, S.-H., 2018 Global Marketing Conference, "US CVBs and meeting planners, do they really engage with each others? customer engagement in the context of event industry," Tokyo. (July 2018).
35. Kim, S.-H., "A multilevel Theory of Green Practice in the Hospitality Industry," Korea. (June 2018).
36. Kim, S.-H., Kuo, W.-Y. (Author & Presenter), Research Expansion Fund Presentation, "Branding MT pulses to millennial," Research and Economic Development, MSU. (September 14, 2018).
37. Koltz, R. (Author & Presenter), Tarabochia, D. (Author & Presenter), Montana Gerontology Society, "Community Based Action Research with Men in Residential Living: What Motivates Them?," Bozeman, MT. (April 2018).
38. Kuo, W.-Y. (Author & Presenter), Miles, M. (Author), USA Dry Pea and Lentil Council Research Proposal Presentation, "Pasta Enriched with Whole or Dehulled Lentils – Interpreting the Sensory and Glycemic Properties from a Material Science Approach," USA Dry Pea and Lentil Council, Bozeman, MT. (February 20, 2018).
39. Lamb, B. (Author & Presenter), Elliott, A. H. (Author & Presenter), Rocky Mountain Association of Counselor Education and Supervision, "Facilitating Multicultural Awareness for Racially/Ethnically White Counselors in Training," Association of Counselor Education and Supervision, Park City, UT. (October 4, 2018).
40. Lux, C., Nussman, I., Laster, R., Montana Farm to School Summit, "Harvest of the Month in the Garden, Kitchen, and at Home," Montana Farm to School, Missoula, MT. (September 2018).
41. Mejia, L. (Author & Presenter), Kuo, W.-Y., Nutrition 2018, "Regulatory framework of multiple micronutrient interventions and the risk of excessive intake of vitamins and minerals," American Society for Nutrition, Boston, MA. (June 9, 2018).
42. Miles, M., EHHD Talks, "Insights on Metabolism from the Gut Microbiome," MSU College of EHHD, Museum of the Rockies, Bozeman, MT. (January 30, 2018).
43. Pitts, M. (Author & Presenter), Bull Shows, B. (Author), Schure, M. B. (Author), Held, S. (Author), McCormick, A. (Author), Undergraduate Research Conference, "Messengers for Health Báa nnilah: Understanding community context when recruiting study participants in an American Indian community.," Buffalo, NY. (July 15, 2018).

44. Routh, B. (Presenter), Extension Annual Conference 2018, "Systems Approach to Healthy Communities," Bozeman. (October 23, 2018).
45. Routh, B. (Author & Presenter), Oliver, B. (Author), National Council on Family Relations, "Navigating Nutrition as a Rural Mother with Limited Income: A Classroom Experience," San Diego, CA. (November 7, 2018).
46. Routh, B. (Author & Presenter), Greder, K. (Author), Teran-Garcia, M. (Author), National Council on Family Relations, "Testing and Refining a Healthy Nutrition and Lifestyles Intervention for Latino Families: Lessons learned from Abriendo Caminos in rural Iowa.," San Diego, CA. (November 8, 2018).
47. Routh, B. (Author & Presenter), Greder, K. (Author), National Health Outreach Conference, "Consider the Family- Latinx Nutrition Education," Minneapolis, MN. (May 3, 2018).
48. Salle, D.D. A. (Author & Presenter), Heil, D. (Author), 2018 ACSM Northwest Annual Conference, "Can Walking Football Cause Positive Changes in Cardiovascular Fitness in Southeast Asian Women?," ACSM Northwest, Bend, OR. (February 2018).
49. Salle, D.D. A. (Author & Presenter), Newton, R. U. (Author), Heil, D. (Author), 2018 International Conference on Applied Strength and Conditioning, "Characterizing the metabolic intensity and cardiovascular demands of walking football in southeast Asian women," ASCA, Sydney, Australia. (December 2018).
50. Schure, M. B., Blue Cross Blue Shield of Montana Large Employer Conference, "Thrive For Montana Program," Blue Cross Blue Shield, Big Sky, MT. (September 20, 2018).
51. Schure, M. B. (Author & Presenter), Bailey, S. (Author & Presenter), Montana Suicide Prevention Conference, "Evidence-Based Risk Reduction Programs in Montana," Missoula. (July 20, 2018).
52. Schure, M. B., Bryan, B. (Author), National Alliance for Mental Illness Montana State Conference, "Thrive For Montana Program," MT Chapter of NAMI, Helena. (October 26, 2018).
53. Simonds, V., Buchwald, D., Native Investigator Development Program: Reflections, "Too Dense & Too Detailed: Exploring American Indian Perspectives on Informed Consent.," Native Investigator Program, Aurora, CO. (June 14, 2018).
54. Simonds, V., Martin, C., Roots of a Sovereign Nation, Food Sovereignty Summit., "Engaging Crow Indian children in water-related research on the Crow Reservation.," Rocky Mountain Tribal Leaders Council, Billings, MT. (August 30, 2018).
55. Simonds, V., The Montana Racial Equity Project's Third Annual Community Forum., "American Indian Racial Disparities in Healthcare. Our Tangled Web: Race, Poverty, and Prejudice.," The Montana Racial Equity Project, Bozeman, MT. (September 20, 2018).
56. Smith, E., Ahmed, S., Byker, C., Dupuis, V., Joint Meeting of the Society of Economic Botany and the Society of Ethnobiology, "Contribution of Wild Foods to Food Security and Cultural Identity

on the Flathead Reservation of the Confederated Salish & Kootenai Tribes in the Context of Environmental Change," Joint Meeting of the Society of Economic Botany and the Society of Ethnobiology, Madison, WI. (July 2018).

57. Stein, M. J. (Presenter), Mackin, J. (Presenter), Faith, Science and Climate Action Conference, "Strengthening Community-Based Food Systems," The Montana Faith and Environment Coalition, Bozeman, Montana. (October 13, 2018).
58. Stewart, C. (Author & Presenter), International Congress of International Association for Physical Education in Higher Education) World Conference, "Teaching and Coaching the Millennial Student Athlete," AIESP, Edinburgh, Scotland. (August 2018).
59. Stewart, C., SHAPE National Convention, Nashville, Tn. March 2018, "2018- Coaching & Teaching the Millennials : Keys to mutual survival," Society of Health and Physical Education, Nashville, Tenn. (March 2018).
60. Stewart, C., SHAPE National Convention, Nashville, Tn. March, "2018-Coach Education in Rural Northwestern State: 25 Years of Progress?," Society of Health & Physical Educators, Nashville, Tenn. (March 2018).
61. Stewart, C., SHAPE National Convention, "2018-Coaching Behaviors: Staying Active Through Life Time Sport:. SHAPE National Convention, Nashville, Tn. March," Society of Health & Physical Educators, Nashville, Tenn. (March 2018).
62. Thornton, A., Ahmed, S., Byker, C., Sustainable Agriculture Education Association Meeting, "The Bozone Ozone Bus Experience: Implementation of a Mobile Garden-based, Experiential Learning Program for Enhancing Sustainable Food Systems Education of Adult Learners," Sustainable Agriculture Education Association Meeting, Hawaii. (July 2018).
63. Vallotton, C. D., Roggman, L., Peterson, C., Chazan-Cohen, R., Ispa, J., Decker, K. B., Hughes-Belding, K., Cook, G., World Association for Infant Mental Health, "Identifying and using home visitor competencies to prepare an effective workforce," Rome, Italy. (May 27, 2018).
64. Williams, E. (Presenter), Decker, K. B. (Presenter), The Council of the Presidential Councils Meeting, "Outreach & Engagement Council support for the Decker Early Childhood Research Team: Influence of funding over the years.," Montana State University. (April 11, 2018).
65. Wilson, S. (Author & Presenter), Vaterlaus, J.M (Author), Beck, A. (Author), International Symposium for Innovation in Rural Education, "Rural Adolescents' Educational and Occupational Values: Are They Different and Do They Matter in Young Adulthood?," Bozeman, MT. (August 2018).
66. Yeoman, C. (Author & Presenter), Borgogna, J.-L. C. (Author), Eaton, P. (Author), Miles, M. (Author), Anastario, M. (Author), Rink, E. (Author), Firemoon, P. (Author), AIAN-CTR 2nd Annual Investigators Meeting, "An Exploratory Analysis of Bacterial Vaginosis & Associated Gynecological and Reproductive Disparities Among a Sample of American Indian Women Living on the Fort Peck Reservation," NIH-NIGMS, Anchorage, Alaska. (April 4, 2018).

67. Zavala, L. (Author & Presenter), Casillas, C. (Author), Flores, V. (Author), Cotter, J. (Author), Becker, J. N. (Author), 15th Northwest Biomechanics Symposium, "Patellofemoral Joint Stress with Different Squat Depth and Loads," American Society of Biomechanics, Bellingham, WA. (May 2018).
68. Zavala, L. (Author & Presenter), Flores, V. (Author), Cotter, J. (Author), Becker, J. N., 8th World Congress on Biomechanics, "Patellofemoral Joint Stress in Female Weight Lifters at Different Squat Depths and Loads," World Congress on Biomechanics, Dublin, Ireland. (July 2018).

### **Other (5)**

1. Decker, K. B. (Panelist), Center for Faculty Excellence Workshop, "Effective research mentoring," Montana State University, Bozeman, MT. (June 1, 2018).
2. Grocke, M. U. (Presenter), Routh, B. (Presenter), Extension Annual Conference 2018, "Gold Star Evaluation." (October 23, 2018).
3. Harmon, A. (Chair), Windchief, S. (Panelist), White, S. (Panelist), Prat, A. (Panelist), Pegg, J. (Panelist), International Symposium for Innovation in Rural Education, "Strengthening Rural Education: Partnering for Enduring Success," Center for Research on Rural Education/The National Centre of Science, Information and Communication Technology, and Mathematics Education for Rural and Regional Australia, Bozeman, Montana. (August 3, 2018).
4. Lockhart, M., Vaterlaus, J. M., Donahue, A., Perry, L., Stanton, C., Otter Brown, C., Cummings, J., Bradley, T., "Creating an Inclusive and Safe Classroom Environment," Montana State University Center for Faculty Excellence. (April 4, 2018).
5. Windchief, S., Simonds, V., Birdhat Howe, R., Stanton, C., Brown Bag Research Seminar, "Indigenous Research Methods," College of EHHD. (December 2018).

### **Paper (1)**

1. Bailey, S., Groves Conference on Marriage and Family, "Grandparents Raising Grandchildren: From Crises to Advocacy," Groves, Portland, ME. (June 12, 2018).

### **Poster (46)**

1. Bailey, S., Byerly, M. J., Lindow, J. C., Robecker, T. (Other), National Extension Health Outreach Conference, "Delivering a Mental Health Educational Intervention Program via Extension," USDA Extension, Minneapolis, MN. (May 3, 2018).
2. Bartz, J. M. (Author & Presenter), Community Centered and Compassionate Scholarship Symposium, "All means ALL: Family Participation within the Medical Home," Montana State University, Department of Health and Human Development, Bozeman, MT. (September 2018).

3. Bass, T. (Author & Presenter), Schumacher, J. (Author), Byker, C. (Author), Roth, A. C. (Author), Gamble, J. K. (Author), Fassus, D. (Author), Farm to School Summit, "Montana Beef to School Supply Chain," Montana Farm to School Coalition, Missoula, MT. (September 14, 2018).
4. Bass, T. (Author & Presenter), Schumacher, J. (Author), Byker, C. (Author), Roth, A. C. (Author), Gamble, J. K. (Author), Fassus, D. (Author), USDA SARE National Decadal Meeting, "Montana Beef to School Supply Chain," USDA SARE, St. Louis, Missouri. (April 4, 2018).
5. Bull Shows, B. (Author & Presenter), Held, S. (Author), McCormick, A. (Author), American Public Health Association, "Evaluation of an intervention to improve patient-provider relationships in an Indigenous community," American Public Health Association, San Diego, CA. (November 13, 2018).
6. Casillas, C. (Author & Presenter), Zavala, L. (Author), Danzer, H. (Author), Becker, J. N. (Author), 15th Annual Northwest Biomechanics Symposium, "Relationship Between First Ray Mobility and Mediolongitudinal Arch Deformation During Walking," American Society of Biomechanics, Bellingham, WA. (May 2018).
7. Casillas, C. (Author & Presenter), Zavala, L. (Author), Danzer, H. (Author), Becker, J. N. (Author), 42nd Annual Meeting of the American Society of Biomechanics, "Relationship Between First Ray Mobility and Mediolongitudinal Arch Deformation During Walking," American Society of Biomechanics, Rochester, MN. (August 2018).
8. Chamberlin, M. (Author & Presenter), Ritter, J. (Author), Maes, A. (Author), Wilson, S. (Author), Bronsky, S. (Author), Walk, S. (Author), Yeoman, C. (Author), Miles, M. (Author), American College of Sports Medicine Annual Meeting and 8th World Congress on Exercise is Medicine, "Physical activity and glycemic control in low versus high inflammation phenotypes in metabolically healthy adults," American College of Sports Medicine, Minneapolis, MN. (May 30, 2018).
9. Chazan-Cohen, R., Vallotton, C. D., Roggman, L., Ispa, J., Maynard, C., Cook, G., Fusaro, M., Decker, K. B., Brophy-Herb, H., National Research Conference on Early Childhood, "Student characteristics that help or hinder learning about infants and toddlers," Arlington, VA. (June 26, 2018).
10. Davies, R. (Author & Presenter), Wilson, S. (Author), Bronsky, S. (Author), Walk, S., Yeoman, C., Miles, M., American College of Sports Medicine Annual Meeting and 8th World Congress on Exercise is Medicine, "Increase in beta-hydroxybutyrate after high-fat meal in metabolically healthy overweight/obese adults," American College of Sports Medicine, Minneapolis, MN. (May 30, 2018).
11. Decker, K. B. (Author & Presenter), Meldrum, J. (Author), Williams, E. (Author), Corcoran, A. (Author), Horner, K. (Author), Jorgensen, E. (Author), Fry, M. (Author), Kepl, R. (Author), Nease, C. (Author), Community-Centered and Compassionate Scholarship Symposium, "Past, present, and future community-centered early intervention research in Montana," EHHD, Bozeman, MT. (September 6, 2018).

12. Decker, K. B. (Author & Presenter), Meldrum, J. (Author & Presenter), Conference on Research Innovations in Early Intervention, "Challenges associated with Part C data collection in a large, rural state," Conference on Research Innovations in Early Intervention, San Diego, CA. (March 2, 2018).
13. Decker, K. B., Foster, T., Meldrum, J., Division for Early Childhood Conference, "Families' reports of Part C services in a large, rural state," Orlando, FL. (October 24, 2018).
14. Dunbar, E. T. (Author & Presenter), Priscu, H. (Author & Presenter), Montana State University Community-Centered and Compassionate Scholarship Symposium, "Building Good Neighbors Community Transitions Pilot Program," MSU Department of Education, Health and Human Development, Bozeman Montana. (September 6, 2018).
15. Fimbel, L. (Author & Presenter), Schure, M. B. (Author), Held, S. (Author), McCormick, A. (Author), Keene, S. (Author), Pitts, M. (Author), Montana Public Health Association Meeting, "Messengers for Health Báa Program," Montana Public Health Association, Helena, MT. (September 18, 2018).
16. Foster, T. (Author & Presenter), Decker, K. B. (Author & Presenter), Division for Early Childhood Conference, "Engaging families: Understanding and addressing barriers to involving families in everyday practice," Orlando, FL. (October 25, 2018).
17. Fusaro, M. (Author & Presenter), Maynard, C. (Author & Presenter), Decker, K. B. (Author), Vallotton, C. D. (Author & Presenter), National Research Conference on Early Childhood, "Undergraduates' prior formal and informal caregiving experiences predict their beliefs and attitudes regarding infant and toddler caregiving," Arlington, VA. (June 26, 2018).
18. Hallett, J. (Author & Presenter), Held, S. (Author), McCormick, A. (Author), Trottier, C. (Author), American Public Health Association, "From interviews to intervention: Developing a chronic-illness self-management program in an Indigenous community," American Public Health Association, San Diego, CA. (November 12, 2018).
19. Heil, D. (Author & Presenter), Brown, B. (Author), Harris, K. J. (Author), Tryon, M. (Author), Cooksley, A. (Author), Semmens, E. (Author), 2018 ACSM Integrative Physiology of Exercise (IPE) Conference, "Energy flux rather than energy balance predicts children's future BMI classification," ACSM, San Diego, CA. (September 2018).
20. Kidd, D. (Author & Presenter), Hannah, J. (Author), Higginson, B. H. (Author), Heil, D. (Author), 2018 ACSM Northwest Annual Conference, "Effects of backpack chest straps on simulated shooting performance following repeated bouts of treadmill marching," ACSM Northwest, Bend, OR. (February 2018).
21. Kim, F., Simonds, V., Tredway, C. (Author), LaVeaux, D. (Author), Cummins, J., Martin, C., American Public Health Association Annual Meeting, "Enhancing critical literacy in children to address environmental justice and health equity on the Apsáalooke Reservation," American Public Health Association, San Diego, CA. (November 12, 2018).
22. Kim, F. (Author & Presenter), Simonds, V. (Author), LaVeaux, D. (Author), Pickett, V. (Author),

Planetary Health Annual Meeting., "Using a critical literacy framework to promote children as change agents through environmental research in partnership with an American Indian community.," Planetary Health Alliance, Edinburgh, U.K. (May 31, 2018).

23. McEwen, M., Vaterlaus, J. M., O'leary, B., Rock Mountain Psychological Association Convention, "College students perceptions of racism and university involvement in promoting diversity and inclusion," Rock Mountain Psychological Association, Denver, CO. (April 2018).
24. McMilin, C. R., Diffenderfer, A. C., Kaiser, D. C., Gaston, M. E., Community Centered & Compassionate Scholarship Symposium, "Interprofessional Education: Farm-to-Clinician, A Culinary Medicine Approach to Healthcare," Montana State University. (September 2018).
25. Meldrum, J., Williams, E., Jarvis-Belleville, A., Stern, B., Corcoran, A., Decker, K. B. (Author & Presenter), Student Research Celebration, "A longitudinal investigation of parent involvement in Montana's Part C services," Montana State University, Bozeman, MT. (April 13, 2018).
26. Milne-Price, S. (Author & Presenter), Held, S. (Author), McCormick, A. (Author), National Rural Health Association, "Baa niilaa: Living Well with Chronic Illness," New Orleans, LA. (May 15, 2018).
27. Ndlovu, N. (Author & Presenter), Vallotton, C. D. (Author & Presenter), Decker, K. B. (Author), World Association of Infant Mental Health, "Does teacher responsiveness mediate the relationship between teacher education level and toddlers' language development?," Rome, Italy. (May 27, 2018).
28. Parrish, C. (Author & Presenter), McCormick, A. (Author), Allen, S. (Author), Other Medicine, L. (Author), Held, S. (Author), American Public Health Association, "Selection and co-development of a new topic area of focus in a community-based research project: Improving Healthy Relationships," American Public Health Association, San Diego, CA. (November 13, 2018).
29. Pitts, M. (Author & Presenter), Schure, M. B. (Author), Held, S. (Author), McCormick, A. (Author), Montana Public Health Association Conference, "Messengers for Health Baa niilah: Understanding community context when recruiting study participants in an American Indian community.," Montana Public Health Association, Helena, MT. (September 16, 2018).
30. Pitts, M. (Author & Presenter), Schure, M. B. (Author), Held, S. (Author), McCormick, A. (Author), National Council on Undergraduate Research Conference, "Messengers For Health Baa niilah: Understanding Community context when recruiting study participants in an American Indian Community," National Council on Undergraduate Research, Edmond, OK. (April 15, 2018).
31. Roggman, L. (Author & Presenter), Cook, G. (Author & Presenter), Decker, K. B. (Author), National Research Conference on Early Childhood, "Applying infant/toddler workforce competencies to the home visiting context: Using the scholarship of teaching and learning to develop programs and modify pedagogy," Arlington, VA. (June 26, 2018).
32. Schroeder, C. (Author & Presenter), Becker, J. N. (Author), 15th Annual Northwest Biomechanics Symposium, "Critical Performance Factors in the Collegiate Weight Throw," American Society of Biomechanics, Bellingham, WA. (May 2018).

33. Schroeder, C. (Author & Presenter), Becker, J. N. (Author), 42nd Annual Meeting of the American Society of Biomechanics, "Critical Performance Factors in the Collegiate Weight Throw," American Society of Biomechanics, Rochester, MN. (August 2018).
34. Schure, M. B. (Author & Presenter), Greist, J., Bailey, S., Nakonezny, P., Bryan, B., Bylerly, M., American Public Health Association, "Efficacy of a computerized Cognitive Behavioral Therapy (cCBT) for rural adult Montanans," San Diego. (November 12, 2018).
35. Smith, M. (Author & Presenter), Fox, M. (Author), Lozeau, J. (Author), Glass, A. (Author), Nicolai, A. (Author), Grant, N. (Author), Hendrickson, L. (Author), Bodnar, B. (Author), Miles, M., American Indian Alaska Native Clinical and Translation Research conference, "Exploring the feasibility of a pilot study to improve diabetes management for Montana AI communities," American Indian Alaska Native Clinical and Translation Research Program, Anchorage, AK. (April 3, 2018).
36. Smith, M. (Author & Presenter), Held, S., Rink, E., Byker, C., Miles, M., Third Annual Conference on Native American Nutrition, "Inflammatory effects of the Food Distribution Program on Indian Reservations (FDPIR; Commodities)," Prior Lake, MN. (October 2018).
37. Stern, B., Meldrum, J., Williams, E., Jarvis-Belleville, A., Corcoran, A., Decker, K. B. (Author & Presenter), Student Research Celebration, "Understanding parent and provider perspectives of early intervention therapies in Montana," Montana State University, Bozeman, MT. (April 13, 2018).
38. Stoy, P., Ahmed, S., Haggerty, J., Jarchow, M., Rashford, B., Swanson, D., Poulter, B., NSF INFEWS PI Workshop, "RII Track-2 FEC: Sustainable socio-economic, ecological, and technological scenarios for achieving global climate stabilization through negative CO2 emission policies," NSF, Alexandria, VA. (May 16, 2018).
39. Stoy, P., Gerken, T., Ahmed, S., Jarchow, M., Rashford, B., Swanson, D., Bromley, G., Poulter, B., Haggerty, J., Albeke, S., Third ICOS Science Conference, "Bioenergy with carbon capture and storage at regional scales: interactions with the food-energy-water nexus, regional climate, and biodiversity conservation," Integrated Carbon Observation System, Prague. (September 12, 2018).
40. Tredway, C. (Author & Presenter), Simonds, V. (Author), Kim, F., Pickett, V., LaVeaux, D. (Author), American Public Health Association Annual Meeting, "Apsáalooke youth as co-researchers in water related projects," American Public Health Association, San Diego, CA. (November 13, 2018).
41. Vallotton, C. (Author & Presenter), Cook, G. (Author & Presenter), Chazan-Cohen, R. (Author & Presenter), Decker, K. B. (Author), National Research Conference on Early Childhood, "Collaborative for Understanding the Pedagogy of Infant/toddler Development (CUPID): The scholarship of teaching and learning to enhance preparation of the infant/toddler workforce," Arlington, VA. (June 26, 2018).
42. Vaterlaus, J. M., Tulane, S., Brown, M., National Council on Family Relations Annual Conference,

"Interactive technology and marital relationships: A qualitative study," National Council on Family Relations, San Diego, CA. (November 2018).

43. Whittecar, W., Finch, K., Vaterlaus, J. M., Koltz, R., Rock Mountain Psychological Association Convention, "Book clubs in undergraduate diversity education: A qualitative evaluation," Rock Mountain Psychological Association, Denver, CO. (April 2018).
44. Williams, E., Stern, B., Meldrum, J., Jarvis-Belleville, A., Decker, K. B., Student Research Celebration, "Identifying family-centered early intervention professional development and training opportunities for rural occupational therapists, speech pathologists and other practitioners," Montana State University, Bozeman, MT. (April 13, 2018).
45. Wilson, S. M. (Author & Presenter), Peach, J. (Author), Bothner, B. (Author), Maes, A. (Author), Yeoman, C. (Author), Walk, S. (Author), Bronsky, S. (Author), Miles, M. (Author), American College of Sports Medicine Annual Meeting and 8th World Congress on Exercise is Medicine, "Postprandial serum concentrations of trimethylamine- N-oxide in metabolically healthy adults with low and high inflammation," American College of Sports Medicine, Minneapolis, MN. (May 30, 2018).
46. Zhu, W. (Author & Presenter), Lankford, D. E. (Author), Reece, J. D. (Author), Heil, D. (Author), 2018 ACSM Integrative Physiology of Exercise (IPE) Conference, "Characterizing the aerobic and anaerobic energy costs of Polynesian dances," ACSM, San Diego, CA. (September 2018).

## Undergraduate and Graduate Student Research Activity

**2018-2019**

### EHHD Spring 2019 Student Research Symposium

<b>NAME</b>	<b>PROGRAM</b>	<b>TITLE OF POSTER</b>
Amber King	PhD in Education	Interrupting Microaggressions through Bystander Intervention Training
Anna Diffenderfer	PhD in Individual Interdisciplinary	An assessment of the knowledge, attitude, readiness and behavior related to both interprofessional education and nutrition education among pre-medical, pre-nursing and pre-dietetic internship students at Montana State University
Austin Shattuck	EdD in Adult and Higher Education	Portfolio Project
Bradley Bechard	College Teaching Certificate	The Student Perspective on Outcomes Assessment and Self-regulation
Cale VanVelkinburgh	EdD in Educational Leadership	Correlations Between Grading Approaches and Standardized Test Scores
Cierra Tredway	Master of Science (specify program)	Engaging Apsáalooke youth as active co-researchers evaluating water quality
Claudia Edgewater-Russell	EdD in Educational Leadership	Attendance and Reading Scores
Connor Mulvaney	B.S. General Science Broadfield Education	Using Technology to Test and Assess Engineering Identity Formation in Elementary Students
Deb Blanchard	PhD in Education	Success and Well-Being in the First Year of College
Elaine Westbrook	EdD in Curriculum & Instruction	Spatial Skills Enhanced Through A Minecraft Curriculum
Eli Snyder	B.A. English Education	The Vocational Lens: Generating a Sense of Critical Vocational Literacy
Emily Anne Busby	PhD in Education	Student Demographics and Conduct Violations

Emily Dardis	Bachelor of Science (specify major)	Fluency in Early Elementary
Hailey Hancock	PhD in Education	Teaching Civics in a Digital Age?! Slacktivism, Selfie-humanitarianism, and Agency
Hannah Telling	B.A. English Education	Drawing Power: Analyzing Writing Center as Homeplace through Gesture Drawings
Heide Arneson	M.Ed. in AHE	Reading Manuals: Boring But Necessary
James Sletten	PhD in Education	The Critical Role of Identity Centers in Higher Education
Jana Gemmill	College Teaching Certificate	Mending the Gap: Addressing the Implementation of the IEFA Mandate in Montana
Joe Hicks	EdD in Adult and Higher Education	Collaborations in the Community: Innovative Early Field Experiences in Alternative Settings
John Wetsit	EdD in Educational Leadership	Effects of Family Structure on Student Academic Performance
Josh Meyer	PhD in Education	Examining the Cognitive Features of Nature-Based Learning
JT Stroder	EdD in Educational Leadership	Academic performance of youth in custody and similar peers in school
Julie Eickman	M.Ed. in AHE	Effects of Self-Confidence on Competency-Based Learning Outcomes
Kaitlyn Sky Wernik	College Teaching Certificate	Assessing Emotional Regulation in Student Aides
Kathleen Carroll	College Teaching Certificate	Evaluating Ecology Undergraduates' Skills in Building Connections
Kearstin Jacobson	College Teaching Certificate	The Impact of Low-Stakes Writing Assignments on the Development and Application of Knowledge in Undergraduate Art History Students
McKenna Quinn	B.A. English Education	Supporting the Whole Student in Our School Communities and ELA Classrooms
Michelle Knickerbocker	PhD in Education	The Reciprocity of Change: Ways that Students' Behavioral Dispositions Affect Change in an

		Instructor's Behavioral Dispositions
Michelle Knickerbocker	PhD in Education	To Read or not to Read: The Reading Attitudes and Behaviors of Elementary Education Majors
Nichole Sullivan	EdD in Educational Leadership	Teacher Suicide Literacy and Self-Efficacy in Suicide Prevention and Intervention
Nicole Vradenburg	EdD in Curriculum & Instruction	Find Your People! Communities of Practice in Education
Que Tran	PhD in Education	How do the US and international master students explore their careers?
Rose Vallor	EdD in Curriculum & Instruction	Motivation and Pedagogical Ecology of School-based Outdoor Science Teaching
Shannen Keene	College Teaching Certificate	Monitoring Treatment Fidelity in an Indigenous Chronic Illness Self-Management Program
Shihua Brazill	PhD in Education	New Technologies for Hybrid Classrooms
Sidrah MG Watson	M.Ed. in AHE	Peer to Peer Training of Student Employees in the MSU Library
Staci Turoski	College Teaching Certificate	Junior Level Engineering Student Leadership Behaviors

### **MSU Spring 2019 Student Research Celebration**

**Heide Arneson: Education**

Mentor: Bryce Hughes, Carrie Myers, Sarah Maki – Education, “Manual Reading: Questions are the Key”

**Samantha Bessert, Morgan Chamberlin: Health & Human Development**

Mentor: Colleen McMillin – Health & Human Development, “Case Study: The effects of a hypo-caloric diet on gastroesophageal reflux disease”

**Hunter Pauley, Ryan Davies: Health & Human Development**

Mentor: Colleen McMillin – Health & Human Development, “A Low-Carbohydrate Approach to Hypertension and Type 2 Diabetes”

**Cierra Tredway: Health & Human Development**

Mentor: Vanessa Simonds – Health & Human Development, “Engaging Apsáalooke youth as active co-researchers evaluating water quality”

**Mehmet Turker: Health & Human Development**

Mentor: Wan-Yuan Kuo, Mary Miles – Health & Human Development, “Sensory and Structural Properties of Crackers Developed by Using Red Lentils (*Lens esculenta*) and Heat Treatment”

**Austin Barnhardt: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Development, “Prevalence and Management of Childhood Food Allergy in Montana Schools: a Pilot Study”

**Ashley Brown: Health & Human Development**

Mentor: James Becker – Health & Human Development, “Biomechanical Differences Of The Standing Long Jump Performed With An Internal Vs. External Focus Of Attention: A Systematic Analysis”

**Blackshear Bryan: Education**

Mentor: Jennifer Woodcock-Medicine Horse – Native American Studies, “Pre-Contact and Contemporary Life of East Coast United States Native Americans and Canadian First Nations Peoples”

**Hannah Christofferson: Education**

Mentor: Ann Ellsworth – Education, “Comparing Finnish and American Approaches to Writing in the Elementary Classroom”

**Vanessa Fahlgren: Education**

Mentor: Jennifer Woodcock-Medicine Horse – American Studies, “The Indigenous People of Canada Before European Contact”

**Lillie Hawkins, Nicholas Johnson: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Developmentm “Management of Type 2 Diabetes and Hypertension Through Medical Nutrition Therapy”

**Lindsay Haynes, Nettie Caine: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Development, “Hyperlipidemia and the role of genetics”

**Tyla Herbst, Carly Hart: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Development, “Low FODMAP Diet Related to Improvements in Irritable Bowel Syndrome”

**Nicholas Johnson: Health & Human Development**

Mentor: Carmen Byker Shanks – Health & Human Development, “Health Profiles of The Un-Processed Pantry Project (UP3) Study Participants”

**Lori Lindgren: Health & Human Development**

Mentor: Mitchell Vaterlaus – Health & Human Development, “Smartphone Acquisition in Adolescence: A Case Study Approach”

**Jacie Meldrum: Health & Human Development**

Mentor: Kalli Decker – Health & Human Development, “Parents’ Reports of Montana’s Early Intervention Services: Alignment with Recommended Practices and Challenges Associated with a Large, Rural State”

**Cassie Merten: Health & Human Development**

Mentor: Mitch Vaterlaus, Dawn Tarabochia, Katie DesLauriers-Heiser – Health & Human Development  
“Romantic Relationships and Romantic Experiences: Late Adolescent Perspective”

**Erika Murray, Rachel Walker: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Development, “Consuming a vegan diet while managing rheumatoid arthritis”

**Chloe Nease: Cell Biology & Neuroscience**

Mentor: Kalli Decker, Christine Lux – Health & Human Development, “Mindfulness within Early Childhood Settings: The Creation of a Curriculum and Research Project Using Teacher Feedback”

**Mikayla Pitts: Health & Human Development**

Mentor: Suzanne Held, Mark Schure – Health & Human Development, “Messengers for Health: Baa’ Nnilah Program”

**Kaeli Pyles, Maria Bertha: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Development, “Diet Implementation in Chronic Kidney Disease”

**Megan Strong: Health & Human Development**

Mentor: Jody Bartz – Health & Human Development, “How Media Representation Influences Personal Perception of Disability”

**Vanessa Tuffs: Health & Human Development**

Mentor: Jody Bartz – Health & Human Development, “Children and Youth with Special Health Care Needs Program... What do our stakeholders have to say?”

**Hannah Vining: Health & Human Development**

Mentor: Colleen McMilin – Health & Human Development, “Managing food allergy in Montana schools: findings from key informant interviews”

**Amber Yates: Elementary Education**

Mentor: Megan Wickstrom – Mathematical Sciences, “Mathematical Modeling: Analyzing Elementary Students’ Perceptions of Mathematics, Identity, and Expertise”

**Erica Zarilng, Kaitlyn Schlangen: Health & Human Development**

## MSU 2<sup>nd</sup> Annual Diversity Symposium, Spring 2019 (\*mentor)

**Brazill, S.** "Understanding Asian International Students and Their Identity Transformation"

**do Amaral, B. & Meyerink, M.** "Using Storytelling to teach CS in Middle School"

**\*Sofianek, C., Buenestro, S., & Albright., E.** "LIFE Scholars: a Story of Opportunity, Growth and Inclusion"

**Tran, Q.** "How do US and International Master Students Explore Their Careers?"

### McNair Scholars Supervised

**Faith Ellis (Psychology).** Mentor: Dr. J.M. Vaterlaus

**Lori Lindgren (Community Health).** Mentor: Dr. J.M. Vaterlaus and Dr. D. Tarabochia

### Department of Education

#### **Department of Education Undergraduate and Graduate Student Scholarly Presentations at Regional, National, and International Conferences (\*student/faculty bolded)**

Bahn, A.\* & **Pennington, S.** (2019, March) "The Effect Of Goal-Oriented Writing Projects on Students' Self-efficacy and Attitude Toward Writing. Western Regional Honors Conference, Bozeman, MT.

Brazill S.C.\* (2019). "New Technologies for Hybrid Classrooms," & "Intercultural Comparison of E-Learning Behaviors of Chinese vs. American Students". The 4th International Conference on Technology in Education, organized by International Hybrid Learning Society.

Brazill S.C.\* (2019). "New Technologies for Hybrid Classrooms," MSU Spring 2019 Student Research Celebration.

Brazill S.C.\* (2019). "Understanding Asian International Students and Their Identity Transformation," 2nd Annual Diversity Symposium at MSU 2019, Bozeman, Montana.

Brazill S.C.\* (2019). "The Relationship of Gender, School Attendance, and Grade Level with ACT English and Composite Test Scores," Global Learn 2019 conference, Association for the Advancement of Computing in Education (Virtual Presentation).

Fisher, H.\* & **Downey, J.** (2018). *Using Activity Theory to understand effective writing instruction with high poverty middle school students.* Presented at the annual meeting of the American Educational Research Association, New York, NY.

**Schmitt-Wilson, S.** & Sletten, J.\* (2018, October). *Post-Secondary Attendance, Persistence, and Graduation: A Study of Rural Students in Montana*. Presented at the National Forum to Advance Rural Education at the annual meeting of the National Rural Education Association, Columbus, OH.

**Schmitt-Wilson, S., Vaterlaus, J.M.,** & Beck, A.\* (2018, August). *Rural Adolescents' Educational and Occupational Values: Are They Different and Do They Matter in Young Adulthood?* Presented at the International Symposium for Innovation in Rural Education, Bozeman, MT.

### **Department of Education Graduate Student Publications (\*Graduate student/faculty bolded)**

Brazill S.C.\* (2019). Factors that Predict ACT Science Scores from a Multicultural Perspective. *Educational Research: Theory and Practice*, 30(2), 1-16.

Brazill S.C. \*(2019). The Relationship of Gender, School Attendance, and Grade Level with ACT English and Composite Test Scores. In *Global Learn 2019 Conference*. Association for the Advancement of Computing in Education (AACE).

Brazill S.C.\* (2019). Intercultural Comparison of E-Learning Behaviors of Chinese vs. American Students. In: Cheung S., Jiao J., Lee LK., Zhang X., Li K., Zhan Z. (eds) *Technology in Education: Pedagogical Innovations. Communications in Computer and Information Science, vol 1048* (pp. 288-299). Springer.

Dallman, D.\* & **Downey, J.** (2019). Preservice teachers' development and application of critical thinking skills in a social studies methods course. In *Handbook of Research on Critical Thinking Strategies in Pre-Service Learning Environments*. G. Mariano and F. Figliano, Eds., Hershey, PA: IGI Global Publishers.

**Schmitt-Wilson, S., Vaterlaus, J. M.,** & Beck, A.\* (2019). Adolescent life values: An exploratory study of differences and similarities by urbanicity. *The Social Science Journal*.

### **Department of Health and Human Development**

#### **Department of Health and Human Development Undergraduate and Graduate Student Scholarly Presentations at Regional, National, and International Conferences (\*student, \*\*Community partner/faculty bolded)**

**Decker, K. B.,** Foster, T., & \*Meldrum, J. (October, 2018). Families' reports of Part C services in a large, rural state. Poster presented at the Division for Early Childhood Conference, Orlando, FL.

Dodson, M.\* , Hodgskiss, S.\* , & **Vaterlaus, J. M.** (2019, April). Technology use in college students' closest sibling relationship. Poster presented at the Rocky Mountain Psychological Association Convention, Denver, CO.

Ellis, F.\* , Haugo, A.\* , & **Vaterlaus, J. M.** (2019, April). Relationship expectations in high school dating relationships. Poster presented at the Rocky Mountain Psychological Association Convention, Denver, CO.

Kim, F., **Simonds, V.W.**, Tredway, C.\* , LaVeaux, D.\* , Cummins, J.\*\* , & Martin, C.\*\* (2018). Enhancing critical literacy in children to address environmental justice and health equity on the Apsáalooke Reservation" American Public Health Association. San Diego, CA.

Kim, F., **Simonds, V.W.**, LaVeaux, D.\* , Pickett, V.\*\* (2018). Using a critical literacy framework to promote children as change agents through environmental research in partnership with an American Indian community. Planetary Health Annual Meeting. Edinburgh, UK.

Tredway, C.\* **Simonds, V.W.**, Kim, F., LaVeaux, D.\* & Martin, C.\*\* (2018). Apsáalooke youth as co-researchers in water-related projects. American Public Health Association. San Diego, CA.

**Vaterlaus, J. M.**, Tulane, S., & Brown, M.\* (2018, November). Interactive technology and marital relationships: A qualitative study. Poster presented at the National Council on Family Relations Annual conference, San Diego, CA.

Whittecar, W.\* , Merten, C.\* , & **Vaterlaus, J. M.** (2019, April). Romantic relationships and romantic experiences: Late adolescent perspectives. Poster presented at the Rocky Mountain Psychological Association Convention, Denver, CO.

**Department of Health and Human Development Undergraduate and Graduate Student Publications  
(\*student, \*\*community partner/faculty bolded)**

Milakovich, J.\* , **Simonds, V.W.**, Kim, F., Pickett, V.\*\* , Held, S., LaVeaux, D.\* , Martin, C.\*\* , Cummins, J.\*\* , & Kelting-Gibson, L. (2018). Children as agents of change: Parent perceptions of child-driven environmental health communication in the Crow

community. *Journal of Health Disparities Research and Practice*. 11 (3), 115-127.

**Simonds, V.W.**, Kim, F., LaVeaux, D.\* , Pickett, V.\*\* , Milakovich, J.\* , & Cummins, J.\*\* (2019). Guardians of Living Water: Using a Health Literacy Framework to Evaluate a Child as Change Agent Intervention. *Health Education & Behavior*. 46 (2).

349-359. PMID: 30215276. Published online September 14, 2018.

**Simonds, V.W.**, Margetts, M.\* , & Rudd, R. (In Press). Expanding environmental health literacy—A focus on water quality and tribal lands. *Journal of Health Communication*.

**Vaterlaus, J. M.,** Spruance, L. A., Frantz, K.\*, & Kruger, J. S. (2018). College student television binge watching: Conceptualization, gratifications, and perceived consequences. *The Social Science Journal*.