Matthew R. Bice, Ph.D.

Curriculum Vitae 1809 E. 59th Street · Kearney, NE 68847 Phone: (432) 557-5657 · E-mail: <u>bicemr@unk.edu</u>

Updated: August 2018

EDUCATION

- Ph.D.Southern Illinois University Carbondale Carbondale, Illinois
Department of Public Health Education & Recreation
Degree Date: May 2013
Dissertation: Retrospective evaluation of factors that influence the
implementation of C.A.T.C.H. in Southern Illinois
Dissertation Chair: Stephen Brown, Ph.D.
- M.S. The University of Texas of the Permian Basin Department of Kinesiology Degree Date: May 2009 Thesis: Neuromuscular adaptations in elderly adults are task-specific during stepping and obstacle clearance tasks Thesis Chair: James Eldridge, Ph.D.
- B.S. The University of Texas of the Permian Basin Department of Kinesiology Degree Date: May 2007 Major: Exercise Science
- **CPR/AED** Pro Rescuers; Responding to Emergencies; First Aid Certificate ID: GTK3CI Date completed: 08/03/2016

ACADEMIC ADMINISTRATIVE APPOINTMENT

2018 - PresentInterim Associate Dean for Graduate Studies & Research
University of Nebraska at KearneyKearney, Nebraska

As the Interim Associate Dean, I am responsible for assisting in the approval of new graduate programs, changes to existing graduate programs, and duties assigned by the Dean for Graduate Studies. In addition, I am responsible for overseeing institutional research, specifically the Institutional Review Board and IACUC.

ACADEMIC APPOINTMENTS

2018 – Present	Associate Professor (Tenure track) University of Nebraska at Kearney Department of Kinesiology and Sport Sciences <i>Physical Activity and Wellness Laboratory</i>	Kearney, Nebraska
2013 - 2018	Assistant Professor (Tenure track) University of Nebraska at Kearney Department of Kinesiology and Sport Sciences <i>Physical Activity and Wellness Laboratory</i>	Kearney, Nebraska
2011 – 2013	Graduate Teaching Assistant Southern Illinois University-Carbondale, Depar	Carbondale, Illinois rtment of Health Education
2012 - 2013	Graduate Research Assistant Southern Illinois University-Carbondale, Depar PEP Grant. I worked under the supervision of I	
2010 - 2012	Doctoral Research Assistant Southern Illinois University-Carbondale, Cente Social Services. I worked under the supervision	
2009 - 2010	Graduate Research Assistant Southern Illinois University-Carbondale, Envir under the supervision of Dr. Stephen Brown an	
2007 – 2009	Graduate Research Assistant The University of Texas of the Permian Basin, Biomechanics & Exercise Physiology Laborate supervision of Dr. James Eldridge & Dr. Doug	ory. I worked under the
2007 – 2009	Graduate Teaching Assistant The University of Texas of the Permian Basin,	Odessa, Texas Dept. of Kinesiology.

I. <u>TEACHING</u>

University of Nebra Average Teac	e e	esent	4.78/5.0
<u>Courses Taug</u>	ght		Credit hours
PE 310	Intro to Physiology of Exercise	Lecture & Lab	3
PE 388	The Science of Play	Online Course	3
PE 467/867	Fitness Testing	Lecture & Lab	3
PE 475	Research Methods in Ex. Sci	Lecture	3

Description of Courses Taught

PE 310: Introduction to Human Physiology of Exercise. Provides a foundation of scientific basis for understanding the body's anatomical structures and physiologic responses to acute exercise, as well as its adaptations to chronic exercise (with laboratory).

PE 388: The Science of Play. This course is designed to introduce the interaction between neuroscience and physical activity (play). An interdisciplinary experience where students apply the knowledge, cognitive abilities, and communication skills they have gained from General Studies in designing and completing an original project or paper. Students employ methods and interpretive means of two or more disciplines to integrate knowledge and synthesize their results.

PE 467/867: Fitness Testing. Techniques and theory of testing for personal fitness. Measures include vital capacity, body density, stress testing, aerobic and anaerobic fitness (with laboratory). This course is taught at the undergraduate and graduate student level.

PE 475: Research Methods in Exercise Science. This course is designed to introduce advanced undergraduate students to the processes of research in the field of Exercise Science including the processes of finding, reading and understanding Exercise Science research; data collection, data analysis; and data interpretation.

Undergraduate Advisement/Mentoring

University of Nebraska Kearney			
	Advisees	Enrolled students	
2018 - 2019			
2017 - 2018	29	25	
2016 - 2017	41	33	
2015 - 2016	51	41	
2014 - 2015	61	54	
2013 - 2014	21	21	

Graduate Advisement/Mentoring

Doctoral Graduate Students	
Eric Wiedenman. Doctoral Dissertation Committee	
Southern Illinois University – Carbondale	2017 – present
Project: "A Retrospective Examination of Resiliency and Se	elf-efficacy among
high school sport and non-sport participants."	
Chelsea Feusner. Doctoral Dissertation Committee	
University of Nebraska (Educational Administration)	
Masters Graduate Students	
Cody Willmore. Masters Thesis Supervisory Committee	
•	2018 – present
Project: "Aquaponics: A study assessing growing patterns"	
Jourdan Ringenberg. Masters Thesis Supervisory Committee	
	2017 – present
Project: "The impact of crop fields on spatial distribution of	the eastern cottontail
(Sylvilagus floridanus) in South-Central Nebraska."	
John P. Rech. Masters Thesis Supervisory Committee	
	2017 – present
Project: "Motivation of Nebraska Senior Games Contestants	s to Engage in
Physical Activity"	
Tyler Patterson. Masters Thesis Supervisory Committee	
	2017 – present
Project: "College Athletes' Sport Participation: An Examina	ation of Motivational
Differences between Collegiate Athletes of various Division	18."
Undergraduate Research Mentoring	

Undergraduate Research Fellowship recipients are denoted by ‡

Tyan Boyer.[‡] University of Nebraska at Kearney August 2018 – present Project: "Aquaponics: Assessment of physical activity while gardening" Co-mentored with Dr. Angela Hollman *2018 Rural Futures Institute Student Serviceship Recipient

Paula Zakrzewski.[‡] University of Nebraska at Kearney August 2017 – present Project: "Aquaponics: A Segway to Health, Science, and Wellness" "Exercise and Temporal Food Choices (EAT-FC)"

Katie Unvert.[‡] University of Nebraska at Kearney August 2017 – present Project: "Aquaponics – A Teaching Model for Health"

Natasha Ashley. University of Nebraska at Kearney Project: "Exercise and Temporal Food Choices (EA	6
Collin Fleecs. [‡] University of Nebraska at Kearney Project: "Sleep's effect on Physical Performance"	August 2016 – 2018
*2017 & 2018 Rural Futures Institute Student Serv	iceship Recipient
Jillian Rocheford. [‡] University of Nebraska Kearney Project: "Environmental influence during rehabilita	e
Kylie Kenedy. [‡] University of Nebraska Kearney Project: "Perceived Body Composition: Perception	January 2016 – 2018 vs. Reality"
Elenna Leininger. [‡] University of Nebraska Kearney Project: "Exercise Motivation among college stude	e
Alex Liess. [‡] University of Nebraska Kearney Project: "Muscle Activation among various gait tas	August 2015 – May 2016 ks"
Skyler Jorgensen. [‡] University of Nebraska Kearney Project: "Rehabilitation Motivation post Shoulder S *2015 Student Summer Research Program Recipier	Surgery"
Traci Turek. [‡] University of Nebraska Kearney Project: "Physical Activity Motivation among Soro	August 2014 – Dec 2015 rities and Fraternities"
shing "Other"	

Teaching "Other"

Mortar Board – Senior Advisor2016 – presentDescription: Mentor a group of selected students (~24 students per year) on service projects,
career development, and leadership opportunities. Activities include: volunteering at local
elementary schools, write letters of support to military personnel around campus, host faculty
appreciation events, initiate freshman/sophomore recruitment, among others. Further, as the
senior advisor, I facilitate bi-monthly meetings through the school year.

II. <u>SCHOLARSHIP</u>

My research agenda focuses on the following main areas: **1**.) School health obesity prevention treatment interventions **2**.) Evaluation of health education programs, and **3**.) Behavior change determinants of physical activity and nutrition including psychological, physiological, and social influences.

Current projects (alphabetical order):

Appetite suppression and food choices: Appetite is influenced by various aspects but our research group examines appetite via hormone response and rating of hunger post exercise.

Aquaponics growing systems: Aquaponics systems are self-sufficient systems that can produce fruit, vegetables, and fish. These systems can produce food all year long and our efforts include using these systems as a health/science teaching model in middle schools. Our research group plans to examine the process and impact of implementation among teachers and students in rural communities.

Behavior motivation. Motivation is a valuable tool in understanding human behavior. I am interested in physical activity and nutrition behaviors and underlying motivation among adults.

Corporate Social Responsibility (CSR): CSR has become a topic of concern for many companies worldwide, some being more successful than others. My role involves evaluating the impact of CSR on employee wellness.

Health Camps (THETA): Our research group has a passion for youth. We have created a summer camp that focuses on teaching children how to establish healthy lifestyle by growing food and physical fitness.

Skills for Success: Health and Physical Education is diminishing across the country. My efforts focus on fundamental movement patterns and its impact on children's health and wellbeing.

Refereed Journal Publications

Student coauthors are denoted by *

- Bice, M., Ball, J., Bickford, N., Bickford, S., Hollman, A., Coughlin, A.*, Dinkel, D., Meyer, R., & Ranglack, D. (2018) Community Gardens: Interactions between communities, schools, and impact on students. *The Health Educator* 50(1) 2 – 10.
- Kenedy, K.*, Wiedenman, E.M.*, Ball, J., Dinkel, D., Akehi, K. & Bice, M. (2017). An examination of estimated BMI and perceived wellness among students at a midsized Midwest university. *American Journal of Health Studies*, 32(3) 136-143. [data-based, student author]
- Adkins, M., Bice, M., Heelan, K.A., & Ball, J. (2017). Enhancing Physical Education with a Supplemental Physical Activity Program. *Journal of Physical Education*, *Recreation, and Dance (JOPHERD)*, 88(8), 28-34. [data-based]
- Adkins, M., Bice, M. R., Worrel, V., & Unruh, N. (2017) Keeping the Physical Educator "connected" - An examination of comfort level, usage and professional development available for technology integration in the curricular areas of physical education. *Contemporary Issues in Education Research*, 10 (4), 225-230. [data-based]
- Dinkel, D., Hanson, C., Koehler, K., Anderson Berry, A., Kyvelidou, A., Bice, M., Wallen, J., Bagenda, D., Jana, L., & Pressler, J. (2017). An overview of assessment methodology for obesity-related variables in infants at risk. *Nutrition and Health*, 1-13. [Literature Review] DOI: 10.1177/0260106017732268

- Adkins, M., Bice, M., Dinkel, D. & Rech, J.P*. (2017). Leveling the playing field: Assessment of gross motor skills in low socioeconomic children to their higher socioeconomic counterparts. *International Journal of Kinesiology and Sport Science* 5(3), 28-34. [data-based]. DOI:10.7575/aiac.ijkss.v.5n.3p.28
- Ball, J., Bice, M., & Maljak, K. (2017). Exploring the relationship between selfdetermination theory, adults' barriers to exercise, and physical activity. *The Health Educator 49*(1), 19-37. [data-based]
- Bickford, N., Smith, L., Bickford, S., Bice, M., & Ranglack, D. (2017). Evaluating the role of CSR and SLO in Ecotourism: Collaboration for economic and environmental sustainability of Artic resources. *Resources*, 6(21), 1-9. [Literature Review]. DOI: 10.3390/resouces6020021
- Turek, T.*, Wragge, P.*, Bice, M., & Ball, J. (2017) Physical Activity Motivation among Sororities and Fraternities in a Midwest university. *International Journal of Kinesiology in Higher Education*, 1(2), 1-10. [data-based, student author]. DOI:10.1080/24711616.2017.1282762
- 10. Reed, J., Struwe, L., Bice, M.R., Yates, B. (2017). The Impact of Self-Monitoring Food Intake on Motivation, Physical Activity and Weight Loss in Rural Adults. *Applied Nursing Research*, 35, 36-41. [data-based] DOI:10.1016/j.apnr.2017.02.008
- Jorgensen, S.*, Bice, M., Unruh, S., Akehi, K., Crockett, H., & McReynolds, J. (2017). Motivation of Shoulder Surgery Patients for Rehabilitation. *International Journal* of Exercise Science, 10(2), 234-245. [data-based, student author]
- Bice, M.R., Hollman, A., Bickford, S., Bickford, N., Ball, J., Wiedenman, E.M.*, Brown, G., Dinkel, D., & Adkins, M. (2017). Kinesiology in 360 Degrees. *International Journal of Kinesiology in Higher Education*, 1(1), 9-17. DOI:10.1080/24711616.2016.1277671
- Ball, J., Banas, J., & Bice, M. (2016). Understanding Health Care Brokering Among Young and Middle-Aged Adults. *American Journal of Health Studies*, 31(4), 190-198. [data-based]
- Bice, M.R., Ball, J., & McClaran, S. (2016) Technology and Physical Activity Motivation. *International Journal of Sport and Exercise Psychology*, 14 (4), 295-304. [data-based] DOI:10.1080/1612197X.2015.1025811
- 15. Bice, M., Ball, J., Parry, T. & Adkins, M. (2016). Retrospective evaluation of high school primary physical activities and adulthood physical activity need satisfaction. *Sport Science Review XXV*, 3-4, 183-198 [data-based]. DOI: 10.1515/ssr-2016-0010

- 16. Ball, J., Bice, M.R., & Parry, T. (2016). Retrospective evaluation of high school sport participation and adult BMI status, physical activity levels, and motivation to exercise. *American Journal of Health Studies*, 31(1), 105 - 111.
- 17. Bice, M.R., Carey, J., Adkins, M., Brown, G., & Ball, J. (2016) The Use of Mobile Applications to Enhance Learning of the Skeletal System in Introductory Anatomy & Physiology Students. *The International Journal of Kinesiology in Higher Education 27*(1) 16-22.
- Bice, M.R., Ball, J., Adkins, M., & Ramsey, A. (2016). Health Technology Ownership and Use: Implications for Adult Physical Activity. *Journal of Sport and Health Research* 8(10), 13-22.
- Ball, J., & Bice, M.R. (2015). Adult BMI and Physical Activity: Retrospective evaluation of High School Sport and Recreation Participation. *Recreational Sports Journal*, 39(2), 144-156. DOI:10.1123/rsj.2015-0065.
- Adkins, M., Bice, M.R., Bartee, T., & Heelan, K.A. (2015). Increasing Physical Activity during the School Day through Physical Activity Classes: Implications for Physical Educators. *The Physical Educator*, 72, 173-184.
- Ball, J., Bice, M.R., & Adkins, M. (2015) Qualitative Assessment of an Electronic Activity-Tracking Device: Strengths, Weaknesses, and Considerations in Behavior Change Interventions for Health Educators. *The Health Educator*, 47(1), 20-26.
- 22. Brown, G., Bice, M.R., Shaw, B., & Shaw, I. (2015). Online Quizzes Promote Inconsistent Improvements on In-Class Test Performance in Introductory Anatomy & Physiology. *Advances in Physiology Education*, 39(2), 63-66. DOI: 10.1152/advan.00064.2014
- Ball, J., Bice, M.R., & Parry, T. (2014) Adults' Motivation for Physical Activity: Differentiating Motives for Exercise, Sport, and Recreation. *Recreational Sports Journal*, 38(2), 130-142. DOI:10.1123rsj.2014-0048.
- Bice, M. R., Ball, J., Brown, S., & Parry, T. (2014) Influence of high school sport participation on adult physical activity. *Journal of Sport and Health Research*, 6 (3), 253-264.
- 25. Hudson, H., Bliss, K., **Bice, M.R.**, Lodyga, M., & Ragon, B. (2014) Creating Peer-led Media to Teach Sensitive Topics: Recommendations from Practicing Health Educators. *Journal of Health Education Teaching*, 5(1), 28-35.
- 26. Bice, M. R., Ball, J., & Ramsey, A. T. (2014) Relations between Mindfulness and Mental Health Outcomes: Need Fulfillment as a Mediator. *International Journal of Mental Health Promotion*, 16(3), 191-201. DOI: 10.1080/14623730.2014.931066.

- 27. Bice, M. R., Brown, S., & Parry, T. (2014) Retrospective Evaluation of Factors that Influence the Implementation of C.A.T.C.H. in southern Illinois schools. *Health Promotion Practice*, 15(5), 706-713. DOI: 10.1177/1524839914526206.
- Miller, K., & Bice, M.R. (2014) The Coordinated School Health Program: Implementation in a Rural Elementary School District. *The Health Educator, 46* (1), 20-24.
- 29. Bice, M.R., Ramsey, A., Ball, J. (2012). Implementation and Evaluation of the C.A.T.C.H. Health Education Classroom Curriculum. *Eta Sigma Gamma Student Monograph, 29*(2), 13-18.
- Bice, M.R., Hanson, N.J., Renshaw, D., Eldridge, J., Reneau, P., Powell, D. (2011) Neuromuscular adaptations in elderly adults are task-specific during stepping and obstacle clearance tasks. *International Journal of Exercise Science*, 4(1), 278-86.
- 31. Renshaw, D., Bice, M.R., Cassidy, C., Eldridge, J., Powell, D. (2010) A comparison of three computer-based methods of determining EMG signal amplitude. *International Journal of Exercise Science*, 3(1), 44-48.

Invited Refereed Publications

1. **Bice, M.** (2015). Predictions of Adult Physical Activity: Fact or Fiction. *AGON* – *International Journal of Sport Sciences*, 5(1), 3-6. [Invited]

Manuscripts Accepted for Publication (IN PRESS)

- **Bice, M**. Ball, J., Hollman, A., & Adkins, M. (ACCEPTED August 2018) Health Technology Use: Implications for Physical Activity behaviors among college students. *International Journal of Kinesiology in Higher Education. (Submitted 3.8.18; Resubmitted 6.27.18)* [data-based] DOI: 10.1080/24711616.2018.1516524.
- Hollman, A., **Bice, M.,** Ball, J., Bickford, N., Shafer, A., & Bickford, S. (ACCEPTED August 2018) A comparison of scholarly productivity among current professors who obtained terminal degree. *American Journal of Distance Education, 32*(4) X-X (*Submitted 1.21.18; Resubmitted 8.3.18*). [data-based]
- Ball, J., **Bice**, M., & Maljak, K. (ACCEPTED June 2018) Exploring the relationship between college students' barriers to exercise and motivation. *American Journal of Health Studies (Submitted 2.1.18; Resubmitted 6.14.18).* [data-based]
- Warehime, S.A.*, Snyder, K.E., Schaffer, C.L., **Bice, M.R.**, Adkins-Bollwit, M.M., & Dinkel, D.M. (ACCEPTED August 2017, early 2019 Publication) Exploring secondary science teachers' use of classroom physical activity. *The Physical Educator*. [data-based]

Manuscripts in Review

- Leininger, E.*, Wiedenman, E.*, Adkins, M., Akehi, K., Ball, J., & **Bice**, M. An examination of intramural college students' exercise motives and how they relate to body mass index. *American Journal of Health Studies*. *(Submitted 7.2.18)* [data-based, student author]
- **Bice, M.,** Ball, J., Hollman, A., Meyer, D., & Ringenberg, J. A qualitative assessment of considerations on how teachers can use classroom growing systems as a health education teaching model. *The Health Educator (Submitted 6.27.18).* [data-based]
- Hollman, A., Hollman, T., Shimerdla, F., Bice, M., & Adkins, M. Information technology pathways in education: Interventions with middle school students. *Journal of Research on Technology in Education. (Submitted 6.11.18; Resubmitted 8.24.18)* [databased]

Manuscript(s) in Process

- Koehler, K., Blaskewicz Boron, J., Smith, T., **Bice**, M., & Stevens, J. Differential relationship between physical activity and intake of empty-calorie and nutrient-dense food. *Medicine & Science in Sports and Exercise*. [data-based]
- Ringenberg, J.*, **Bice**, **M**., Hollman, A., Meyer, D., Ball, J. Wiedenman, E.*, Bickford, S., & Bickford, N. Aquaponics: An innovative teaching model for Science Education.
- **Bice, M.**, Ball, J., Adkins, M., & Easton, H. Pilot study: Innovation perceptions & motivation to implement an after-school health program in rural Nebraska.
- Rochford, J. Akehi, K., Unruh, S., Weed, W., & **Bice**, M. Environmental effects on patient satisfaction in a rehabilitation clinic. [data-based, student author]
- Unvert, K., Ringenberg, J., Meyer, D., Bickford, N., Hollman, A., Bickford, S., & **Bice**, **M.** Aquaponics: A Segway to health and wellness. [data-based, student author]
- Fleecs, C., **Bice**, **M.**, & Brown, G. Sleep deprivation: Effects on peak power (Anaerobic Capacity). *Journal of Strength & Conditioning Research*. [data-based, student author]

Submitted International / National Presentations

- Adkins, M., Hollman, A., Bice, M., Rech, J.*, & Becker, B. The STEM of Academics is Physical Education. Hawaii International Conference on Education Honolulu, Hawaii
 January 5 – 8, 2019
- Ball, J., **Bice**, M., Hollman, A., Meyer, D., & Ringenberg, J.* How to use a growing system to teach health education.

Society of Health and Physical Educators (SHAPE) America 2018 National Conference Tampa, Florida April 9 – 13, 2019

Accepted International / National Presentations

Bickford, N., Bice, M., Ringenberg, J.*, Hollman, A., Meyer, D., Ball, J., Wiedenman, E.*, Bickford, S. Aquaponics: An innovative teaching model for science education. UArctic Congress Helsinki, Finland
 September 3 -7 2018

Accepted Regional / State Presentations

 Unvert, K., Ringenberg, J., Ball, J., Dinkel, D., Bickford, N., Hollman, Meyer, R., & Bice, M. Aquaponics Growing Systems: An Innovative Approach to Health Consciousness and Science in Elementary Education. Early Childhood Conference: Promoting Wellbeing for Children and Families. Kearney, Nebraska

Refereed International / National Presentations

* Denotes student author

[†] Denotes peer reviewed

[‡] Denotes presenter responsibilities

- Study, K.*, Akehi, K., Noeldner, F., Ryan, W., Bice, M., & Unruh, S.[†] The Rate of Atrophy and Hypertrophy of the Quadriceps and Hamstring Muscles after the ACL Reconstruction Surgery and during Rehabilitation: Preliminary Study. National Athletic Trainers Association National Convention New Orleans, LA
- Unvert, K.*, Ringenberg, Meyer, D., Bickford, N., Hollman, A., Bickford, S., Bice, M.[†] [poster presentation] Aquaponics: An innovative approach to teaching Health. National Conference for Undergraduate Research 2018 Edmond, OK
 April 4 – 7, 2018
- Fleecs, C.* & Bice, M.[†] [poster presentation] Sleep Deprivation: Effects on Peak Power (Anaerobic Capacity) National Conference for Undergraduate Research 2018 Sleep Deprivation: Effects on Peak Power (Anaerobic Capacity) Edmond, OK
 April 4 – 7, 2018
- Adkins, M., Bice, M., Dinkel, D., & Rech, J.P.*[†] [poster presentation] Leveling the playing field: Assessment of gross motor skills of low socioeconomic children to their higher socioeconomic counterparts. Society of Health and Physical Educators (SHAPE) America 2018 National Conference Nashville, Tennessee March 20-24, 2018

- 5. Bice, M., Ball, J., Wiedenman, E., Bickford, N., Bickford, S., Hollman, A., & Meyer, D.
 ^{†‡} [poster presentation] Aquaponics: An assessment of physical activity, nutrition, and health consciousness. Society of Health and Physical Educators (SHAPE) America 2018 National Conference Nashville, Tennessee
- Bickford, S., Waples, C., Hollman, A., Bice, M., Brachle, B., Heikken-Moilanen, R., & Bickford, N.
 The multiple faces of CSR: An International comparison of a multidisciplinary view of CSR Best Practices based on stakeholder engagement and collective community values. Academy of International Business
 Dubai, United Arab Emirates (UAE)
 July 2 5, 2017
- 7. Bickford, S., Hollman, A., Torquati, J., Ramos, A., Bice, M., & Bickford, N. [oral presentation] Assessing local food production and accessibility for community gardens in rural areas: Arctic and Beyond. The International Congress of Arctic Social Science (ICASS) IX 2017 Umea, Sweden June 8 – 12, 2017
- Bickford, N., Bickford, S., Lanteigne, M., Bice, M., Ranglack, D., & Hollman, A. [oral presentation] The Village: Using high-tech for international multidisciplinary education of Indigenous sustainability. The International Congress of Arctic Social Science (ICASS) IX 2017 Umea, Sweden June 8 – 12, 2017
- Hollman, A., Torquati, J., Bickford, N., Bickford, S., & Bice, M. [oral presentation] Growing food and knowledge in the Artic: Combining biological processes with the Internet of Things. The International Congress of Arctic Social Science (ICASS) IX 2017 Umea, Sweden
 June 8 – 12, 2017
- 10. Bickford, S., Heikkinen-Moilanen, R-L., Lanteigne, M., Waples, C., Hollman, A., Bice, M., Brachle, B., & Bickford, N. [oral presentation] A Multidisciplinary Assessment of Community Level Corporate Social Responsibility in rural communities. The International Congress of Arctic Social Science (ICASS) IX 2017 Umea, Sweden June 8 – 12, 2017
- 11. Kasl, A., Akehi, K., Ryan, W., Unruh, S., & Bice, M.[†]
 Thigh Muscle Architecture Changes During a Soccer Season in Previously Injured and Non-Injured Female Athletes. *Med Sci Sport Exerc.* 49(5), 574.
 National ACSM Annual Meeting Denver, Colorado
 May 30 – June 3, 2017

J.M., Bice, M.R. , & and Consumption of Key May 30 – June 3, 2017
n] April 6-8, 2017
y and Sorority members. e March 30 – April 1, 2017
dle-Aged Adults. e March 30 – April 1, 2017
nan, E.M.*, Mollring, M., ng Intramural Students. 2017 National Conference March 16, 2017
LMAS, PYFP). <i>RQES</i> 2017 National Conference ^b March 15, 2017
& Bickford, N. nnish dairy industry. March 16, 2017
entation] n of comfort level, usage ation in the curricular areas January 1-5, 2017

- 20. Reed, J.R., Yates, B.C., Struwe, L., & Bice, M.R.[†] [oral presentation] Impact of dietary self-monitoring on motivation, physical activity and weight loss in rural adults. 6th International Conference of Self-Determination Theory Victoria, British Columbia, Canada
- 21. Bice, M., Ball, J., Easton, H., & Coyle, B. ^{†‡} [poster presentation] Impact evaluation of CATCH Kids Club in rural Nebraska. Society of Health and Physical Educators (SHAPE) America 2016 National Conference Minneapolis, Minnesota
- 22. Adkins, M., Bice, M., Bartee, T., Heelan, K.A., & Ball, J.^{†‡} [poster presentation] Fundamental Movement Pattern Changes of Participants Receiving Physical Activity Everyday.
 Society of Health and Physical Educators (SHAPE) America 2016 National Conference Minneapolis, Minnesota
- 23. Ball, J., Bice, M., & Adkins, M. ^{†‡} [poster presentation] Adult BMI and Physical Activity of Participants who participated in sports. Society of Health and Physical Educators (SHAPE) America 2016 National Conference Minneapolis, Minnesota April 5 – 9, 2016
- 24. Reed, J.R., Yates, B.C., Struew, L., & Bice, M.R.[†] [oral presentation] Motivation and dietary self-monitoring in rural weight loss participants. 40th Annual Midwest Nursing Research Society Conference Milwaukee, Wisconsin March 17-20, 2016
- 25. Bice, M., Ball, J., Adkins, M, & Parry, T. ^{†‡} [oral presentation] Retrospective evaluation of high school primary physical activities and adulthood physical activity need satisfaction. National Association for Kinesiology in Higher Education 2016 National Conference San Diego, California
- 26. Bice, M., Carey, J., Brown, G.A., Adkins, M., & Ball, J. ^{†‡} [oral presentation] The use of mobile applications to enhance introductory anatomy & physiology student performance on topic specific in-class tests. National Association for Kinesiology in Higher Education 2016 National Conference San Diego, California
- 27. Adkins, M. & Bice, M.[†] [oral presentation] Mission Possible: Physical Activity Everyday – A collaborative effort between Physical Education class and structured physical activity. Physical Education Teacher Education (PETE) National Conference Atlanta, Georgia October 27 – 31, 2015
- 28. Bice, M., Ball, J., & Easton, H.^{†‡} [poster presentation]

	Innovation Perceptions & Motivation to Implement a Coordinated rural Nebraska. Society for Public Health Education 2015 National Conference	-
	Portland, Oregon	April 23-25, 2015
29.	Turek, T.*, Wragge, P*. & Bice , M. [†] [poster presentation] Physical Activity Motivation among Sororities and Fraternities National Conference for Undergraduate Research 2015 Cheney, Washington	April 15-18, 2015
30.	Bice, M. & Ball, J. ^{†‡} [poster presentation] Relations between Physical Activity, Mindfulness, and Mental Hea Society of Health and Physical Educators (SHAPE) America 2015 Seattle, Washington	
31.	Ball, J. & Bice , M. ^{†‡} [poster presentation] Specific Physical Activities Participated during High School Increa Society of Health and Physical Educators (SHAPE) America 2015 Seattle, Washington	
32.	Adkins, M., Bice, M. & Unruh, N. ^{†‡} [poster presentation] Physical Educators and Technology: Comfort Level of Integration Society of Health and Physical Educators (SHAPE) America 2015 Seattle, Washington	
33.	Ball, J. & Bice, M. ^{†‡} [oral presentation] Exercise Motivation among adults who had access to a physical ac National Association for Kinesiology in Higher Education 2015 N Clearwater, Florida	
34.	Brown, G., Shaw, I., Shaw, B., & Bice, M. [†] [poster presentation] Online Quizzes Enhance Introductory Anatomy & Physiology Pert Subsequent Tests, But Not Examinations. <i>Medicine and Science in</i> 45(5), 1655 American College of Sports Medicine	Sports and Exercise,
	Orlando, Florida	May 27 -31, 2014
35.	Bice, M., Carney, H., & Miller, K. ^{†‡} [poster presentation] Fresh, Fit, & Fly: A Program to Improve Children's Health American Alliance for Health, Physical Education, Recreation, and AAHPERD 2014 National Convention & Expo St. Louis, Missouri	d Dance April 2, 2014
36.	Bice, M. ^{†‡} [oral presentation] Coordinated School Health Programs – Success and Failures.	

AAHPERD 2013 National Convention & Expo Charlotte, North Carolina	April 23-27, 2013		
37. Bice, M. & Ball, J. ^{†‡} [poster presentation] High School Sport Participation and Current Adult Physical A National Association for Kinesiology in Higher Education Co Fort Lauderdale, Florida	5		
38. Bice, M., Ball, J., Ramsey, A., & Franklin, J. ^{†‡} [poster preser C.A.T.C.H. Implementation – Teacher Hesitation – Barriers, [†] AAHPERD 127 th National Convention & Expo. ^a Boston, Massachusetts			
39. Bice, M., Ball, J., Ramsey, A., & Franklin, J. ^{†‡} [poster preser APPLICATION & Evaluation of "C.A.T.C.H" IMPLEMENT AAHPERD 127 th National Convention & Expo. ^a Boston, Massachusetts			
40. Hudson, H., Bliss, K., Lodyga, M., & Bice, M. ^{†‡} [poster press Channel Surfing Contraceptives: Instructors Tuning in or Cha AAHPERD 126 th National Convention & Expo San Diego, California			
^a = Not presented due to conference cancelation ^b = Blizzard prevented presenters to reach conference location			
<u>Refereed Regional / State Presentations</u> Student coauthors are denoted by *			
 Study, K.*, Akehi, K., Noeldner, F., Ryan, W., Bice, M., & Unruh, S. The Rate of Atrophy and Hypertrophy of the Quadriceps and Hamstring Muscles after the ACL Reconstruction Surgery and during Rehabilitation: Preliminary Study. Mid America Athletic Trainers Association La Vista, NE March 15-17, 201 			
 Adkins, M., Bice, M., Brown, G., Bickford, N., & Hollman, A Farm to Fresh! A multidisciplinary approach to teach Health, Central District Society of Health and Physical Educators of A Sioux Falls, South Dakota 	A. and Physical Activity.		
 Maljak, K., Valley, J., Ball, J., Parry, T., & Bice, M. Physical Education (PE) Teachers and Self-Determination Th IAHPERD (Illinois SHAPE) State Conference St. Charles, Illinois 	eory (SDT) November 16, 2017		

4.	Bice, M , Bickford, N., Meyer, D., Hollman, A., Bickford, S., & Ri Aquaponics: An innovative model to teach science and technology University of Nebraska at Kearney – Community Early Childhood Kearney, Nebraska	
2.	Sakai, R.*, Akehi, K., Kasl, A., Ryan, W., Bice, M ., & Unruh, S. Higher knee injury risks when athletes failed to adapt their muscle characteristics during the competitive college season. 38th Annual Mid America Athletic Trainers' Association (MAATA LaVista, Nebraska	
3.	Ball, J. & Bice, M. Implementing Curricula into K-12 Schools. SHAPE Nebraska State Conference Kearney, Nebraska	November 2 – 3, 2015
4.	Easton, H. & Bice, M. CATCH Kids Club in rural Nebraska SHAPE Nebraska State Conference Kearney, Nebraska	November 2 – 3, 2015
5.	Bickford, N., Adkins, M., Bice, M. , Bickford, S., Shafer, A., Adan Ball, J., Vaux, J., Schoenebeck, C., Hill, T., Obasi, S., Siedschlaw, B., Messerole, M., Reed, J., Davis, E., Ramsey, A., & Hollman, A. Sustainable Food for Health: a comprehensive study assessing food for wellbeing. Rural Futures Conference Lincoln, Nebraska	K., Shafer, J., Becker,
6.	Maupin, C.*, Bice , M., Heelan, K., & Bartee, T. Physical Fitness and Academic Performance. Undergraduate Resea Rural Futures Institute 2015 Lincoln, Nebraska	urch Fellows, UNK October 22 – 23, 2015
7.	Bice, M., Franklin, J., & Easton, H. CATCH: Creating a Policy, Systems, and Environmental change in NAHPERD State 2014 Program Lincoln, Nebraska	n rural Schools. November 2, 2014
8.	Akehi, K., Bice, M., & Norman, E. The impact of distance running on muscle cross-sectional area and study. Central States ACSM Regional Chapter Conference Overland Park, Kansas	echo intensity: case October 22 – 24, 2014

9. Bice, M. & Carney, H.

	University & School Partnerships on Grant Funded Projects: Building Bridges. 2013 Robert D. Russell Symposium	
	Carbondale, Illinois	April 8, 2013
10.	Bice, M. Relationship between adult BMI and sport participation. Illinois Association for Health, Physical Education, Recreation and Chicago, Illinois	l Dance November 15, 2012
11.	Bice, M. & Ball, J. Results and the Phenomenon of CATCH Implementation in Rural Midwest District of AAHPERD Centennial Convention Chicago, Illinois	Midwest. April 25 – 27, 2012
10		
12.	Ball, J. & Bice , M. The Diffusion of Distance Education in Health Education and Prom Midwest District of AAHPERD Centennial Convention	
	Chicago, Illinois	April 25 – 27, 2012
13.	Bice, M., Ball, J., Ramsey, A., & Franklin, J. "C.A.T.C.H. Implementation in rural southern Illinois. Illinois Rural Health Association Annual Conference (poster present Effingham, Illinois	ntation) April 2012
14	Franklin, J., Wright, A., & Bice, M.	
1	C.A.T.C.H: A Coordinated School Health Program – Outcomes of CATCH Program and the projected plans for future implementation Illinois Rural Health Association	1 0
	Effingham, Illinois	April 14, 2011
15. Bice, M. Relationship Between Lean Mass and Coactivity in Young and Old Ad South Central American Society of Biomechanics		g and Old Adults.
		February 2010
 16. Bice, M. Inter-segmental Coordination and Variability within High- and Low-An Feet during Running. 1st Annual Meeting of the South-Central Region of the American Society of Biomechanics 		a- and Low-Arched
		lociety of
	Odessa, Texas	March 2008

Refereed Abstracts

 Bastin, H., Renshaw, D., Bice, M., Renshaw, D., Hanson, N.J., Eldridge, J., Ryan, M., Reneau, P, Powell, D. *Relationship between lean mass and coactivation during downward stepping with advancing age*. 59th Annual Meeting of the American College of Sports Medicine, San Francisco, California. May 29th-June 2nd, 2012.

- Powell, D., Bice, M., Renshaw, D., Hanson, N.J., Eldridge, J., Ryan, M., Reneau, P. *Effect of advancing age and lean mass on neuromuscular activation patterns and coactivation ratios during a downward stepping task*. 34th Annual Meeting of the Mid-Atlantic Regional Chapter of the American College of Sports Medicine, Harrisburg, Pennsylvania. November 4th – 5th, 2011.
- Bice, M., Renshaw, D., Eldridge, J., Cassidy, C., Powell, D. *Relationship between lean mass and coactivity in young and old adults*. Third Meeting of the South Central American Society of Biomechanics. Dallas, Texas. February 25th-26th, 2011.
- 4. Renshaw, D., **Bice, M.R.**, Cassidy, C., Eldridge, J., Powell, D. Methods Used to Calculate EMG Amplitude, 2nd Meeting of the South Central American Society of Biomechanics. Denton, Texas. February 12-13, 2010.
- Chalambaga, Elizabeth T., Powell, Douglas; Renshaw, Doug; Bice, Matthew; and Long, Benjamin (2009) "Lower Extremity Kinetics in High and Low-Arched Athletes during Landing," *International Journal of Exercise Science: Conference Abstract Submissions*: Vol. 2: Iss. 1, Article 10.
- Powell D., Zhang S., Milner C., Bice M., and Long B. Coordination in Running within High- and Low-Arched Feet. 1st Meeting of the International Foot and Ankle Biomechanics Congress. Bologna, Italy, Sept. 4-6, 2008.
- Powell D., Zhang S., Milner C., Long B. and Bice M. Differences in Lower Extremity Coordination in High- Compared Low-Arched Female Athletes during Running. 32nd Meeting of the American Society of Biomechanics. Ann Arbor, Michigan, Aug. 5-9th, 2008.
- Bice M., Zant A., Long B., Powell D. Inter-segmental Coordination and Variability within High- and Low-Arched Feet during Running. 1st Annual Meeting of the South Central Region of the American Society of Biomechanics, Odessa, Texas, Feb. 29-Mar 1, 2008.

Conference Abstract

1. Ruano, C., Powell, .D., Renshaw, D., Chalambaga, E., and **Bice, M.** (2009) "The Effects of Insoles on Loading Rate in Level Running," *International Journal of Exercise Science: Conference Abstract Submissions*: Vol. 2: Iss. 1, Article 9.

Grants and Sponsored Research

Funded Grants Total Funding = \$551,233.13 *Total Funding as PI* = \$64,766

1. Dinkel, D., Dev, D., **Bice, M**., Wisneski, D., Kuhn, M., Karabon, A., Escayg, K., & Hatton-Bowers, H.

"Improving the intersection of policies, practices, and health behaviors in childcare: A systems approach to childhood obesity prevention."

Sponsored by the University of Nebraska Research Initiative – Systems Science (RFA)Funded\$14, 680April 20, 2018

 Yan, Changmin (PI)., Wagler, A., Adkins, M., Bice, M., Franzen – Castle, L., Dev, D., & Koziol, N. *Imagine!*: Improving Kindergarteners' Nutrition and Physical Activity Related Knowledge, Preferences and Habits through Virtually Reality Game in Rural Nebraska. Sponsored by The University of Nebraska – Lincoln; Research Council: Interdisciplinary Research Grants

Funded \$20,000 December 6, 2017

Role: Co-Investigator

Description: Our interdisciplinary team is developing an innovative immersive early childhood obesity prevention program, known as *Imagine!*, that delivers vicarious learning of nutrition and physical activity knowledge to kindergarteners in schools via a Virtual Relaity (VR) game.

My role in this project is to serve as the physical activity expert as it pertains to the intervention, data collection, and data interpretation.

3. Ranglack, D. (PI), Bickford, N., **Bice, M.,** Bickford, S., Hollman, A., & Hayes, J. "The impact of habitat loss and fragmentation on human-wildlife conflict in an agriculturally dominated system."

Sponsored by System Science: Formed/Forming Team Seed GrantsFunded\$149,910June 13, 2017

Role: Co-Investigator

Description: The goals of this project are to investigate the impacts of habitat fragmentation and wildlife movement. Further, we will investigate wildlife movement and its impact on public health (traffic safety, human awareness, perception of wildlife). My role in this project is to examine human-wildlife interaction from the public health perspective. Assessment will include qualitative and quantitative methodologies.

 Koehler, K. (PI), Stevens, J., French, J., Bice, M., Neta, M., Blaskewicz, B., Schmid, K., Bulbulian, R., Lee, J-M, Smith, T., Stoltenberg, S., Gustaffson, C., & Slivka, D. "Understanding the Effects of Exercise on Future Food Intake: The Role of Behavioral, Physiological, and Neural Mechanisms."

Sponsored by Food for Health Collaboration Initiative – Formed/Forming Team Seed Grants

Funded \$150,000 June 5, 2017

Role: Co-Investigator

Description: The goals of this project are to assess the influence of exercise on food choices, to identity neuroendocrine factors that explain inter-individual differences in food-choices in the post-exercise state, and to explore how exercise alters neural pathways involved in decision making about food. Data will be collected in Lincoln, Omaha, and Kearney. My role in this project is coordinate data collection at the Kearney site, research design, data dissemination, and future grant writing.

5. Reed, J., Estabrooks, P., Pozehl, B., Heelan, K., Bice, M., Dinkel, D., & Haynatzki, G. "Increasing Physical Activity to Improve Health through Primary Care Clinics in Rural Nebraska." Sponsored by University of Nebraska Medical Center, Center for Clinical & Translational Research Funded \$25,000 May 31, 2017 Role: Co-Investigator Description: The goal of this project is to design and implement a physical activity intervention in a rural community utilizing technology (activity tracking devices). My role in the project is to assist in intervention design, technology integration, and data dissemination. 6. Brown, G. (PI)., Bice, M. (Co-I), Adkins, M., Hollman, A., Bickford, S., Bickford, N., Ranglack, D. "Teaching Health, Exercise, Technology, & Aquaponics (THETA) Day Camps to Grow Future Health Professionals from McCook Middle School Students." Sponsored by the Rural Futures Institute (RFI) Funded \$20,000 March 1, 2017 *Role:* Co-Investigator Description: This project is to conduct a physical activity and growing camp to a rural community (McCook, NE). Funding for this project will allow our research team to host the camp during the summer of 2018 (year 1) and 2019 (year 2). The purpose of this camp is to provide rural middle school students an additional opportunity to learn science related topics through skill-based activities in hope to make healthy decisions. We are partnered with the city of McCook, Nebraska. 7. Bice, M. (PI), Meyer, D., Bickford, N., Hollman, A., & Bickford, S. "Helping Rural Middle School Science Teachers Create Classroom Aquaponic systems

enhancing soft skills and career readiness."

Sponsored by Nebraska's Coordinating Commission for Postsecondary EducationFunded\$59,766January 26, 2017

Role: Primary Investigator

Description: The goal of this proposal is to train sciences teachers in Nebraska how to incorporate aquaponics systems into existing curricula. Teachers will be trained (a) how to build and maintain aquaponics systems, (b) how to use aquaponics systems to teach science, and (c) assess the impact of implementation on student's health and wellbeing.

 Torquati, J. (PI), Adkins, M., Bice, M. (Co-I), Bickford, N., Bickford, N., Deutsch, C., Desmarals, M., Godfrey, M., Fisk, C., Ramos, A., Westbrook, L., Smith, D., Stamler, L., Whitfield, S., & Hollman, A.
 "Solving for Pattern: Promoting Health through Localizing Food Systems Topic Areas to be Explored." Sponsored by Food for Health Collaboration Initiative – Planning and Proposal

Generating grant. **Funded** \$20,000 January 6, 2016

Role: Co-Investigator

Description: The goal of this proposal was to examine food systems as it relates to community gardens. This grant resulted in various research meetings, collaborative writing workshops, and produced international presentations.

9. Koehler, K. (PI), Bice, M. (Co-I), Bulbulian, R., Gustafson, C., French, J., Neta, M., Stevens, J., & Stoltenberg, S.

"Understanding the Effects of Exercise on Future Food Intake: The Role of Behavioral Physiological, and Neural Mechanisms."

Sponsored by Food for health Collaboration Initiative - Planning and Proposal Generating grant.

Funded \$20,000 January 6, 2016

Role: Co-Investigator

Description: The goals of this Planning and Proposal Generation application are to: (1) assemble Nebraska-wide expertise in a variety of disciplines to leverage existing knowledge and technology, (2) identify possible funding sources for this research, and (3) identify knowledge gaps that need to be addressed prior to preparing a competitive extramural research proposal. We will work toward these goals through three specific aims: (a) strengthen the expertise of our research group by recruiting additional collaborators from the University of Nebraska Medical Center (UNMC) and other Nebraska research institutions, (b) leverage the expertise of nationally and internationally renowned researchers in areas that are not adequately covered by our research team, and (c) position our research team to acquire seed funding and/or extramural funding. The current grant resulted in a national presentation.

10. Yan, C. (PI), Adkins, M., Bice, M. (Co-I), Cammack, R., Franzen-Castle, L., Chaidez, V., Durden, T., Gustafson, C., Iruka, I., Knoche, L. & Wagler, A. "Closing the Health Gap: An Energy-balance Approach to Bridging Early Childhood Obesity Disparities among At-risk Children in Rural and Urban Nebraska." Sponsored by Food for health Collaboration Initiative – Planning and Proposal Generating grant. \$19,981

Funded

January 6, 2016

Role: Co-Investigator

Description: The goal of this planning grant is to create, validate, test, and disseminate an energy-balance intervention program targeting both nutrition and physical activity (NPA) among early-age at-rick children at school/home/local neighborhood/geo-digital reality in both rural and urban Nebraskan communities.

11. Akehi, K. (PI), Bice, M. (Co-PI) & Adkins, M.

Sponsored by Nebraska Research Institutes (NRI) - University of Nebraska. "Impact of orthopedic surgery and rehabilitation on the lower extremity neuromuscular characteristics, muscle quality, and motivation on college athletes: cohort research study. Funded \$46,166.13 April 2015 – 2016 Role: Co-Investigator

Description: The purpose of the collaborative funding request is to comprehensively enhance the current research conducted in Athletic Training, Exercise Science, and Physical Education Pedagogy Programs in the Department of Kinesiology and Sport Sciences at UNK. In addition, funding will allow us to extend research findings into studies aimed at identifying interventions and strategies that may effectively help prevent, manage, and treat physical health and functional performance issues associated with athletic participation and physical activity.

- 12. Akehi, K., Murphy, B., Bice, M., Unruh, S., & Brown, G. (Co-Investigator). "Impact of the post-surgical procedure rehabilitation on lower extremity muscle rapid force characteristics: cohort study."
 Sponsored by University of Nebraska Kearney Research Services Council Collaborative grant, Internal.
 Funded \$4,000.00 2015 2016
 *Grant was declined by investigators due to larger funding source.
- 13. Ball, J. (PI) & Bice, M. (Co-I). "Exercise Motivation with the Nike Fuel Band." Sponsored by Colorado State University Pueblo Faculty Development Grant.
 Funded \$750.00 2014 2015 Role: Co-Investigator Description: The current research study included a Pre/Post research design. Quantitative data using the Exercise Motivation Inventory 2 scores were compared from week 1 (PRE) to week 8 (POST) and examined motivational differences to partake in PA with the inclusion of the Nike FuelBand SE®. The purpose of this study was to examine whether the use of a popular activity-tracking device would influence physical activity
 - motivation.
- 14. **Bice, M.** (PI) & Ball, J. "Motivation to Exercise: Influence of technology on motivation and exercise habits,"

Sponsored by University of Nebraska Kearney Research Services Council – Collaborative grant, Internal.

Funded \$5,000.00 2014 – 2015

Role: Primary Investigator

Description: The current research study included a Pre/Post research design. Quantitative data using the Exercise Motivation Inventory - 2 scores were compared from week 1 (PRE) to week 8 (POST) and examined motivational differences to partake in PA with the inclusion of the Nike FuelBand SE®. The purpose of this study was to examine whether the use of a popular activity-tracking device would influence physical activity motivation.

Grant Submissions (IN REVIEW)

Grant in progress

 Bice, M. (PI), Ball, J., Dinkel, D., Meyer, R., Bickford, N., Hollman, A., Koehler, K., Geske, J., & Luo, J.
 "Aquaponics: A Segway to obesity prevention." Sponsored by National Institutes of Health (NIH) – [PA 18 -355] Healthy Habits: Timing for Developing Sustainable Healthy Behaviors in Children and Adolescents (R01 Clinical Trial) *Status: Revisions*

 Brown, G (PI)., Bice, M., Abbey, B., Shaw, B., & Shaw, I. "Effects of aerobic exercise, resistance exercise, and combined aerobic & resistance exercise on food choices and endocrine signals of satiety in middle aged adults. Sponsored by National Institutes of Health (NIH) – [PAR 16-200: Academic Research Enhancement Award – Parent R15]
 Scored \$351,797 (D) \$298,406 (ID) Status: Revisions for resubmission

Technical Experience

SPSS: Version 22
Microsoft Office: All versions and programs
TrueOne 2400: Metabolic Measuring System
Motion Analysis: Vicon Motion Capture
Kinetics: AMTI force plates
EMG: BTS Pre-amplified surface electrodes
Isokinetics: Biodex dynamometer
Programming: Visual 3D (C-Motion, Inc.), Microsoft Visual BASIC
Body Composition: Skin-fold Assessment, BodPod, Dexascan

III. <u>SERVICE</u>

University Service

2017 – present		
2018 – present		
2015 – present		
2015 – present		
2015 – present		
2018		
2016 - 2018		
2015 - 2016		
Committee		
2016 - 2018		
2013 – present		
Department of Kinesiology and Sport Sciences		
2015 - present		
2014 – present		

Undergraduate Scholarships Committee (Committee member) Department Social Committee member (Committee member) Nebraska Kid Fitness Nutrition Day (Faculty Advisor) Department Logo Committee member (Committee member) Actively Attended Department Meetings Faculty Search Committee (Physical Education) Loperfit Club (Co-Coordinator) Mission Possible: Physical Activity Specialist (Evaluation) BMI Report Card (Faculty Advisor) Faculty Search Committee (Ast. Professor – Athletic Training) Coordinator, PATH – Physical Activity (Event date: April 26, 201	$\begin{array}{l} 2014 - \text{present} \\ 2014 - \text{present} \\ 2013 - \text{present} \\ 2013 - \text{present} \\ 2013 - \text{present} \\ 2016 - 2017 \\ 2014 - 2015 \\ 2013 - 2015 \\ 2013 - 2015 \\ 2013 - 2014 \\ 4 \end{array}$
<u>Community Service</u>	
University of Nebraska Friendship Program	2016 – present
Wagnor, South Dakota Public School District	2015 - present
Physical Activity Summer Camp	
Collaboration: Dr. Maurice Godfrey (UNMC)	
Two Rivers Public Health Department – CATCH Partner	2013 - 2017
CATCH evaluator & trainer	
Healthy Schools Advisory Council	2014 – present
Susan G. Koman	
Committee Member	2013 – present
Race Director	2013 - 2015
Coordinator of Marshalls; Event date: September 28, 2013	
Activate Buffalo County (Committee Member)	2013 – present
Kearney High School Women's Soccer Team (Volunteer)	2014 – present
Goalkeeper Coach	0.010
Kearney Soccer Club (Volunteer)	2013 – present
The Kearney Area Community Foundation Grant – Assiste	ed with Grant writing
Assisted Bob Slaymaker (former KSC President)	
Kearney Soccer Association	2015 - 2016
Funded - \$1,500	2013 - 2010
Professional Leadership	
Society for Health and Physical Education (SHAPE) Nebraska	
President	2016 – present
Society for Health and Physical Education (SHAPE) Nebraska	2010 - present
President-elect	2015 - 2016
Society for Health and Physical Education (SHAPE) Nebraska	2013 2010
Treasurer (6 moths)	2016
Professional Committees	
Society for Health and Physical Education (SHAPE) America (National)	
Delegate – 2018 SHAPE America Assembly	2018 – present
Society for Health and Physical Education (SHAPE) Central District (Reg	1
Sanford Health Fit4Schools Review Committee (Adhoc)	2017 – present

Nominations Committee	2017 - present
Archives Committee	2017 – present
Collaboration Committee	2017 – present
Future Professional and Higher Education Committee	2017 – present
Membership Committee	2017 – present
Society for Health and Physical Education (SHAPE) Nebraska (State)	
Board member	2014 – present
Leadership Council	2014 – present
Professional Development Committee - Chair	2015 – present
Executive Director Role Delineation Committee - Chair	2014 - 2015
Nebraska Association of Health, Physical Education, Recreation, and Dan	ce
Leadership Council	2014
Eta Sigma Gamma – Southern Illinois University – Carbondale Chapter	
President	2010 - 2011
Professional Memberships	
Eta Sigma Gamma	2018 - present
Council on Undergraduate Research	2016 – present
Society of Health and Physical Educators – Nebraska	2014 – present
Society of Health and Physical Educators (SHAPE)	2014 - present
Society of Public Health Education	2014 - present
National Association of Kinesiology in Higher Education	2013 – present
Eta Sigma Gamma	2009 - 2015
American Association of Health Education	2009 - 2015
American Alliance for Health, Physical Education, Recreation and Dance	2010 - 2014
South Central Region of the American Society of Biomechanics	2007 - 2011
Illinois Rural Health Association (IRHA)	2010 - 2013
Professional Service as a Peer-Reviewer	
International Journal of Sport and Exercise Psychology	2018 – present
Journal of STEM Outreach	2017 – present
Achievements in Food Science and Nutrition	2017 – present
International Journal of Kinesiology in Higher Education	2015 – present
Medical Research Archives	2015 – present
International Journal of Exercise Science	2014 – present
Journal of Sport and Health Science	2014 – present
Journal of Sport and Health Research	2014 – present
Pedagogy in Health Promotion	2014 – present
Invited Presentations/Workshops	
Bice, M. Worksite wellness.	
The Buckle, Corporate offices.	Oct. 20, 2015
Bice, M. & Rauch, P. Physical activity and nutrition guidelines for militar	y personnel. Feb 5, 2015

ROTC – University of Nebraska Kearney Feb 5, 2015

Bice,	M., Franklin, J., & Easton, H. change in rural Schools. NA	CATCH: Creating a policy, sy HPERD, Lincoln, NE.	vstems,	and environme Nov 3-4, 2014	
Bice,	11	Child Health (C.A.T.C.H.) Imp erning rural school implementa		1	th
<u>Confe</u>	erence Presider				
Deborah Tackmann and JoAnne Owens-Nauslar. (2013). <i>Teaching the iY Generation:</i> <i>Outrageous teaching techniques</i> . AAHPERD 2013 National Convention & Expo. Charlotte, NC April 23 – 27, 2013					
Illinoi	s Rural Health Association Sta Effingham, IL	ate Conference		April 25 – 27,	2012
American Association for Health Educators 2010 National Conference – videographer					
Dr. Roberta Ogletree –advisor Indianapolis, IN		March	2010		
Professional Development (Trainings/Workshops)					
2018	UNL IACUC Training. Lince Sponsored by University of	-			
2016	Coordinated School Physica Sponsored by SHAPE Nebra			November 5, 2	2016
2015	<i>Physical Activity Leader (PA</i> Sponsored by SHAPE Nebra	1L) aska at University of Nebraska	Omaha	September 26, 2015 a	
2014	eCampus Online Training	University of Nebraska Kear	ney	November	
	iBook Training	University of Nebraska Kear	ney	April	
	Apple – MacBook Air Traini	ing (UNK)		April	
2013	Tutorial, "Blackboard for be	eginners." (UNK)	Septer	mber	

Professional Development (Conferences)

2018 Ecotourism Symposium – Center for Great Plains Studies. Kearney, NE
 Society of Health and Physical Educators of America National Convention. Nashville, TN
 Society of Health and Physical Educators Central District Conference. Sioux Falls, SD

- 2017 Society for Association Management (SAM) Leadership Development Conference (LDC). Albuquerque, NM National Council on Undergraduate Research National Conference. Memphis, TN Society for Public Health Education Annual Conference. Denver, CO Society of Health and Physical Educators of America National Convention. Boston, MA Society of Health and Physical Educators Central District Conference. Cedar Falls, IA Society of Health and Physical Educators Nebraska State Conference. Lincoln, NE
- 2016 Society of Health and Physical Educators of America National Convention. Minneapolis, MN National Association for Kinesiology in Higher Education Annual Conference. San Diego, CA
- 2015 Society for Public Health Education Annual Conference. Portland, OR Society of Health and Physical Educators of America National Convention. Seattle, WA Society of Health and Physical Educators Nebraska State Conference. Lincoln, NE National Association for Kinesiology in Higher Education Annual Conference. Clearwater, FL
- 2014 *American Alliance for Health, Physical Education, Recreation and Dance National Convention.* St. Louis, MO
- 2013 American Alliance for Health, Physical Education, Recreation, and Dance National Convention. Charlotte, NC National Association for Kinesiology in Higher Education Annual Conference. Fort Lauderdale. FL, 2013 Robert D. Russell Symposium. Carbondale, IL, 2013
- 2012 American Alliance for Health, Physical Education, Recreation and Dance National Convention. Boston, MA Illinois Association for Health, Physical Education, Recreation and Dance, Chicago, IL Midwest District of AAHPERD Centennial Convention. Chicago, IL Illinois Rural Health Association. Effingham, IL
- 2011 American Alliance for Health, Physical Education, Recreation and Dance National Convention. San Diego, CA
- 2010 American Alliance for Health, Physical Education, Recreation and Dance National Convention. Indianapolis, IN

Additional Service

First Annual Meeting of the South Central Regional Chapter of the Amer	rican Society of
Biomechanics	2009
President – Kinesiology Club	
The University of Texas of the Permian Basin	2004 - 2007

<u>Awards & Honors</u> <u>University of Nebraska at Kearney</u>

2017	College of Education – Faculty Mentor Award Undergraduate Research	April
2015	New Frontiers Magazine Recognition of Faculty Research	October
	College of Education Outstanding Research Award (2014-2015)	April
2014	Faculty of the Month - Interfraternity Council	April

The University of Texas of the Permian Basin

2009	Most Outstanding Graduate Student, College of Arts & Sciences	May
2008	Best Abstract Award, 1 st Annual Meeting of the South-Central Region of Society of Biomechanics	the American March
2007	Most Outstanding Undergraduate Student, College of Arts & Sciences	May
2007	Outstanding Undergraduate Student, Dept. of Kinesiology	May

Research Collaborations

Department of Health, Physical Education, Recreation and Athletics at Northeastern Illinois University: I work with *James Ball*, Ph.D. to investigate contributing factors of adult physical activity which include sport, recreation, and exercise participation, motivation to exercise, and technology use to track physical activity.

University of Nebraska Medical Center (UNMC): I work with *Maurice Godfrey*, Ph.D. on various tribal reservations in Nebraska and South Dakota establishing Physical Activity programs within tribal communities. Projects include summer camps, school activity programs, and family activities.

Nebraska Department of Health and Human Services & Nebraska Chronic Disease Prevention and Control Program: I work with *Brian Coyle* developing, implementing and evaluating school health efforts concerning CSPAP & PAL trainings program evaluation.

University of Nebraska at Omaha: I work with *Danae Dinkel*, Ph.D. on projects associated with classroom physical activity interventions and trainings to increase school wide physical activity.

Department of Nutrition and Health Sciences at the University of Nebraska at Lincoln: I work with *Karsten Koehler*, Ph.D. to investigate exercise and sedentary behaviors as it pertains to energy balance.

Department of Health and Human Performance at the College of Charleston: I work with *Thomas E. Parry*, Ph.D. to investigate contributing factors of adult physical activity which include sport, recreation, and exercise participation, motivation to exercise, and technology use to track physical activity.

NIMH Research Scholar, Washington University in St. Louis: I work with *Alex Ramsey*, Ph.D. to investigate mental health symptoms and adult physical activity trends. In addition, Dr. Ramsey and I have worked on mediating influences of mindfulness characteristics on negative affect and mental health symptoms.

College of Health Students at the University of Memphis: I work with *Douglas W. Powell*, Ph.D. investigating altered neuromuscular activation and biomechanical patterns associated with healthy and pathological aging.

College of Journalism and Mass Communications at the University of Nebraska at Lincoln: I work with *Changmin Yan*, Ph.D. on obesity treatment programs, specifically digital health promotion and theory-driven research in persuasive health messages.

College of Nursing at the University of Nebraska Medical Center: I work with *Jill Reed*, Ph.D. on physical activity interventions and the use of technology as means of behavior change.