DUSTIN J. WILGERS

ASSISTANT PROFESSOR

McPherson College, Natural Sciences Dept.
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EDUCATION

Doctor of Philosophy – Biology. *University of Nebraska-Lincoln* (2011)

- Emphasis: Ecology, Evolution, & Behavior
- Dissertation title: The complexities of wolf spider communication: exploring courtship signal function in *Rabidosa rabida*
- Committee: Eileen A. Hebets (chair), William Wagner, Alexandra Basolo, Robert Gibson, John Flowers

Master of Science – Biology. *Kansas State University* (2005)

- Thesis title: Impact of land management practices on tallgrass prairie herpetofauna
- Committee: Eva A. Horne (chair), Brett K. Sandercock, Jeff Pontius

Bachelor of Science (Honors) – Biology. *Southwestern College* (2001)

- Thesis title: "Dispersal probability index" for the colonization of zebra mussels, *Dreissena polymorpha,* in Kansas' lakes (Advisor: K. Charles Hunter)
- *Cum laude*

ACADEMIC POSITIONS

2011-Current	**Assistant Professor of Biology** – *McPherson College*
2006	**Adjunct Biology Instructor –** *Cloud County Community College*
2003	**Adjunct Biology Instructor** – *Highland Community College*
1999-2001	**Research Assistant** – *Southwestern College*

HONORS

- **Award of Excellence for Best Environmental Story in Non-Daily Division I, 1st Place** – *Kansas Press Association* (2016)
- **ESA Education Scholar** – Ecological Society of America & QUBES (2016)
- **Honorary Faculty Men's Basketball Coach** – *McPherson College* (2016, 2013)
- **Coleman Foundation Faculty Entrepreneurship Fellow** – *McPherson College* (2013)
- **Engaged Faculty Fellowship** – *Kansas Campus Compact* (2012)
- **Outstanding Graduate Research Assistant Award Honorable Mention** – *University of Nebraska-Lincoln* (2009)
- **UNL Research Fair Outstanding Graduate Student Poster** – *University of Nebraska-Lincoln* (2009)
- **Maude Hammond Fling Fellowship** ($20,000) – *University of Nebraska-Lincoln* (2009)
- **MEEC Poster Competition, 2nd Place** – *Midwest Ecology & Evolution Conference* (2009)
- **Biology Graduate Student Symposium Poster Competition, 1st Place** – *University of Nebraska-Lincoln, School of Biological Sciences* (2009)
- **Outstanding Graduate Research Assistant Award Honorable Mention** – *University of Nebraska-Lincoln* (2008)
- **Collins Award for Excellence in Kansas Herpetology** – *KS Herpetological Society* (2008)

- **USDE GAANN Fellowship** ($5,368)– *University of Nebraska-Lincoln* (2008)
- **USDE GAANN Fellowship** ($14,199)– *University of Nebraska-Lincoln* (2007)
- **USDE GAANN Fellowship** ($17,345) – *University of Nebraska-Lincoln* (2006)
- **Crimson Torch Award** – *Konza Prairie Biological Station, Kansas State University* (2005)
- **Dean's Fellowship** ($2000) – *University of Texas-Arlington* (2001)
- **Biology Dept. Senior Award** – *Southwestern College* (2001)
- **John C. Johnson Award for Excellence in Student Research, 3rd Place** – *Beta Beta Beta Biological Honors Society Northcentral 2 District Meeting* (2001)
- **Kansas Governor's One-Shot Turkey Hunt Scholarship** – (2000, 2001)
- **Honor Scholarship** – *Southwestern College* (1997-2001)

PEER-REVIEWED PUBLICATIONS

-Google Scholar h-index = 10, i10 index = 10 (as of June 2016)

De Young, S.*, and **D. J. Wilgers.** *In Press.* The effects of male competition on the expression and success of alternative mating tactics in the wolf spider *Rabidosa punctulata*. *Journal of Arachnology.*

Jani, V., **D. Wilgers**, J. Gleischner, and C. Rude. *In Press.* Challenges in introducing service-learning: Can institutional recognition and rewards promote inclusion of "engaged pedagogy" in higher education? *EDULEARN 16 Proceedings.*

Chai, Y.Q.*, and **D. J. Wilgers.** 2015. Effects of temperature and light levels on refuge use in the wolf spider *Rabidosa punctulata*. *Transactions of the Kansas Academy of Science.* 118:194-200.

Hebets, E. A., M. Hansen*, T. Jones, and **D. J. Wilgers**. 2015. Octopamine levels vary with mating tactic in the wolf spider *Rabidosa punctulata*. *Animal Behaviour.* 100:136-142.

Wilgers, D. J., D. Wickwire*, and E. A. Hebets. 2014. Detection of predator cues alters mating tactics in male wolf spiders. *Behaviour* 151:573-590.

Wilgers, D. J., and E. A. Hebets. 2012. Seismic signaling is crucial for female mate choice in a multimodal signaling wolf spider. *Ethology* 118:1-11.

Wilgers, D. J., and E. A. Hebets. 2012. Age-related female mating decisions are condition-dependent in a wolf spider. *Behavioral Ecology and Sociobiology* 66:29-38.

Hebets, E. A., J. A. Stafstrom, R. L. Rodriguez, and **D. J. Wilgers**. 2011. Enigmatic ornamentation eases male reliance on courtship performance for mating success. *Animal Behaviour* 81:963-972.

Wilgers, D. J., and E. A. Hebets. 2011. Complex displays facilitate male reproductive success and plasticity in signaling across variable environments. *Current Zoology* 57:175-186.

Rundus, A.S., L. Sullivan-Beckers, **D. J. Wilgers**, and E. A. Hebets. 2011. Females are choosier in the dark: environment-dependent reliance on courtship components and its impact on fitness. *Evolution* 65:268-282

Shamble, P. S.*, **D. J. Wilgers,** K. Swoboda, and E. A. Hebets. 2009. Courtship effort is a better predictor of mating success than ornamentation for male wolf spiders. *Behavioral Ecology* 20:1242-1251.

Wilgers, D. J.[a], A. C. Nicholas[a], D. H. Reed, G. E. Stratton, and E. A. Hebets. 2009. Condition-dependent alternative mating tactics in a sexually cannibalistic wolf spider. *Behavioral Ecology* 20:891-900. [a] co-first authors

Wilgers, D. J., and E. A. Horne. 2009. Differential responses to chemical stimuli in conspecific fecal pellets by an iguanid lizard *Crotaphytus collaris*. *Journal of Ethology* 27:157-163.

Wilgers, D. J., and E. A. Horne. 2007. Spatial variation in predation attempts on artificial snakes in a fire-disturbed tallgrass prairie. *Southwestern Naturalist* 52: 263-270.

Wilgers, D. J., E. A. Horne, B. K. Sandercock, and A. W. Volkmann. 2006. Effects of rangeland management on community dynamics of the herpetofauna of the tallgrass prairie. *Herpetologica* 62:378-388. (Selected for BioOne "Featured Articles")

Wilgers, D. J., and E. A. Horne. 2006. Effects of different burn regimes on tallgrass prairie herpetofaunal species diversity and community composition in the Flint Hills, Kansas. *Journal of Herpetology* 40:73-84.

BOOK CHAPTERS

Wilgers, D. J., and E. A. Hebets. 2014. Functional approaches to condition. In: Animal Signaling and Function: An Integrative Approach (eds. D. Irschick, M. Briffa, J. Podos). John Wiley & Sons.

Manuscripts In Preparation

Simon, S., and **Wilgers, D.J.** Female Mating Status affects the expression male mating tactics in the wolf spider *Rabidosa punctulata.*

Wilgers, D.J., C. Watts, and E. A. Hebets. Does ornamentation improve signal efficacy in complex environments?

* Undergraduate author
[a] Co-first author

MEDIA COVERAGE

WIBW TV Topeka nightly news. 17 June 2016.
KSNT TV Topeka nightly news. 17 June 2016.
Topeka Capital Journal. 16 June 2016.
The Mercury. 16 July 2015.
The Arkansas City Traveler. 9 July 2015.
Winfield Courier. 8 July 2015.
Rural Messenger. 7 July 2015.
Topeka Capital-Journal. 4 July 2015.
Mid-Kansas Online. 19 June 2015.
Topeka Television News Station WIBW. December 2012.
The Hutchinson News. 27 December 2012.
McPherson Sentinel. 14 December 2012, 15 August 2012.
McPherson Radio Station KBBE. 23 August 2012.
NewsRx: Science Letter, Behavior. 18 August 2009.
German Society of Herpetology and Terrariums Newsticker. 3 July 2006.

PROFESSIONAL REPORTS

Wilgers, D., E. A. Young, K.C. Hunter, J. Hunter, J. Iverson, K. Rickells, and H. Wolcott. 2001. 100th Meridian Initiative: A Report on Zebra Mussel (*Dreissena polymorpha*)

Surveys in Kansas, Summer 2001. Report to U.S. Fish and Wildlife Service, Nonindigenous Species Program, Manhattan, KS. 10 pp.

Wilgers, D., M. Harding, E. A. Young, and K. C. Hunter. 2000. 100th Meridian Initiative: A Report on Zebra Mussel (*Dreissena polymorpha*) Surveys in Kansas, Summer 2000. Report to U.S. Fish and Wildlife Service, Nonindigenous Species Program, Manhattan, KS. 12 pp.

Wilgers, D., P. Zahs, E. A. Young, and K. C. Hunter. 1999. 100th Meridian Initiative: A Report on Zebra Mussel (*Dreissena polymorpha*) Surveys in Kansas, Summer 1999. Report to U.S. Fish and Wildlife Service, Nonindigenous Species Program, Manhattan, KS. 20 pp.

OTHER WRITING ACTIVITIES

- McPherson News Freelance Science Writer (2015-Current)

GRANTS (EXTRAMURAL/INTRAMURAL)

- **Chickadee Checkoff Small Research Grant ($4570.03) – *KS Dept of Wildlife & Parks* (2015)**
  - Title: Eight-Leg Education: Turning Future Arachnophobes into Arachnophiles One Kid at a time
  - Students Involved: Bradley Campbell
- **Chickadee Checkoff Small Research Grant ($4950) – *KS Dept. of Wildlife & Parks* (2012)**
  - Title: Assessing the Diversity, Abundance, and Ecology of Sand Prairie Arachnids
  - Students Involved in Research: Nathan Schowengerdt, April Childs, Sebastian Toro, Christian Rodriguez, Kaley Kinnamon
- **iPlant Genomics in Education Travel Award ($150) – *iPlant Collaborative* (2012)**
- Faculty/Staff Opportunity Grant ($4233) – *McPherson College* (2012)
- **Pittsburgh Conference Memorial National College Grant ($8265) – Pittcon (2012)**
- Biological Sciences Travel Grant ($400) – *University of Nebraska-Lincoln* (2011)
- **AAS Travel Award ($400) – *American Arachnological Society* (2010)**
- **ABS Student Research Grant ($800) – *Animal Behavior Society* (2010)**
- Biological Sciences Travel Grant ($500) – *University of Nebraska-Lincoln* (2009)
- **Grant-in-Aid of Research ($813) – *Sigma Xi Scientific Research Society* (2008)**
- Biological Sciences Special Funds ($1500) – *University of Nebraska-Lincoln* (2008)
- Biological Sciences Travel Grant ($500) – *University of Nebraska-Lincoln* (2008)
- Biological Sciences Special Funds ($1000) – *University of Nebraska-Lincoln* (2007)
- BRIEF Travel Grant ($500) – *Kansas State University* (2004)
- Project Grant ($500) – *Konza Prairie Biological Station, Kansas State University* (2004)
- **Kamb Grant ($100) – *Kansas Herpetological Society* (2003)**
- **Research Foundation Grant ($500) – *Beta Beta Beta Biological Honors Society* (2001)**

CONTRIBUTED PRESENTATIONS

2016 20th Internation Congress of Arachnology, Golden, CO

2016 Kansas Academy of Science Meeting, McPherson, KS (co-author, presented by undergraduate Sophie Simon)
2016 Kansas Academy of Science Meeting, McPherson, KS (co-author, presented by undergraduate Alia Khalidi)
2016 Kansas Academy of Science Meeting, McPherson, KS (co-author, presented by undergraduate Levi Fleming)
2015 Kansas Academy of Science Meeting, Pittsburg, KS
2014 Kansas Academy of Science Meeting, Emporia, KS
2014 Kansas Academy of Science Meeting, Emporia, KS (co-author, presented by undergraduate Sean De Young, 3rd Place Undergraduate Oral Presentation)
2014 Kansas Academy of Science Meeting, Emporia, KS (co-author, presented by undergraduate Christian Rodriguez)
2014 Kansas Academy of Science Meeting, Emporia, KS (co-author, presented by undergraduate Sebastian Toro)
2013 Campus Compact Heartland Conference, Tulsa, OK (co-authored by V. Jani, C. Rude, J. Gleischner)
2013 Kansas Academy of Science Meeting, Overland Park, KS (co-authored by undergraduate Jony Chai)
2013 Kansas Academy of Science Meeting, Overland Park, KS (co-authored by undergraduate Matt Hansen)
2011 Animal Behavior Society Meeting, Bloomington, IN (Allee Symposium)
2011 University of Nebraska-Lincoln Student Research Symposium (co-author, presented by undergraduate Matt Hansen), Lincoln, NE.
2010 Animal Behavior Society Meeting, Williamsburg, VA.
2010 American Arachnological Society Meeting, Greenville, NC.
2010 University of Nebraska-Lincoln Biology Graduate Student Association Symposium. Lincoln, NE.
2009 Midwest Ecology & Evolution Conference, Lincoln, NE.
2009 University of Nebraska-Lincoln Biology Graduate Student Association Symposium. Lincoln, NE.
2008 Animal Behavior Society Meeting, Snowbird, UT.
2007 American Arachnological Society Meeting, Selinsgrove, PA.
2007 American Arachnological Society Meeting (co-author, presented by undergraduate Paul Shamble), Selinsgrove, PA.
2005 Kansas Herpetological Society Meeting. Pittsburg, KS.
2005 Konza Prairie Biological Station LTER Workshop. Manhattan, KS.
2004 Kansas Herpetological Society Meeting. Manhattan, KS.
2004 International Joint Meeting of Ichthyologists and Herpetologists. Norman, OK.
2003 Kansas Herpetological Society Meeting. Emporia, KS.
2002 International Conference on Aquatic Invasive Species. Alexandria, VA.
2001 Beta Beta Beta Biological Honors Society Northcentral 2 District Meeting. Reis Biological Station, MO.

INVITED RESEARCH SEMINARS

2013 Department of Biology, *Wichita State University*, Wichita, KS
2012 Ecology & Evolution Seminar. *Kansas State University*, Manhattan, KS

2012 Department of Biology, *Tabor College*, Hillsboro, KS
2010 Department of Biology. *Sterling College*, Sterling, KS
2009 Department of Biology. *Southwestern College*, Winfield, KS
2006 Evolution, Ecology, & Behavior Seminar Series. *University of Nebraska*, Lincoln, NE

SEMINAR SPEAKERS HOSTED

Dr. Eileen Hebets – *University of Nebraska-Lincoln* (2014)
Dr. Andrew Sensenig – *Tabor College* (2012)

UNDERGRADUATE RESEARCH ADVISEES

- Sophie Simon (2015-16) – Effects of mating status on the expression of alternative mating tactics in *Rabidosa punctulata*
- Alia Kalidi (2015-16) – Effects of the light environment on eye pigment development in *Drosophila* (Merit Award)
- Kylan Bennett (2015-16) – Inheritance of acquired venom immunity in mice
- Levi Fleming (2015-16) – Effects of limestone road pollution on growth rates of freshwater mussels
- Tiffany Fraser (Co-Advisor; 2015-16) – Benefits of heat shock protein expression when exposed to multiple stressors sequentially (Burkholder Award)
- Nathan Schowengerdt (Co-Advisor; 2014-15) – Diversity of spiders in two ecoregions of Puerto Rico (Burkholder Award)
- Shannon Coldren (Co-Advisor; 2014-15) – Confirming effectiveness of anti-bacterial hand sanitizers (Merit Award)
- Lori Crain (Co-Advisor; 2013-2014) – Frequency of twins in Intermediate Wheatgrass (Merit Award)
- Christian Rodriquez (2013-2014) – Effect of substrate variation on escape speed and substrate preference in the wolf spider *Hogna carolinensis* (Merit Award)
- April Childs (2013-2014) – Collection techniques affect the families of spiders sampled
- Sean De Young (2012-13) – Effects of male-male competition on mating tactic expression in the wolf spider *Rabidosa punctulata* (Burkholder Award)
- Sebastian Toro (2012-13) – Comparing the gut microbiomes of arachnids that differ in feeding ecology
- Jony Chai (2011-12) – Factors affecting burrowing behavior and activity in the wolf spider *Rabidosa punctulata* (Burkholder Award)
- Trey DeRouen (Co-Advisor; 2011-12) – Variation in intensity of ultraviolet light on wastewater decontamination
- Ashley Huizar (Co-advisor; 2011-12) – The temperature effects on weight gain and wing area of *Drosophila melanogaster*.

GRADUATE COMMITTEES

- Abbey Archer-Rierson (2015-2016) – Enhancing entrepreneurship culture across campus

TEACHING EXPERIENCE

Courses Taught

- Ecology (BI316; S 2016) – *McPherson College*
- Wilderness Survival Skills (BI150; May 2015) – *McPherson College*
- Entrepreneurship on the Horizon (ET201; S 2015) – *Team taught w/ JD Bowman @ McPherson College*
- Readings and Research in Biology: Behavioral Ecology (BI445; S 2015) – *McPherson College*
- College Biology 1 (G-BI111; F 2014) – *McPherson College*
- Genetics (BI283; F 2011, 2012, 2013, 2014, 2015) – *McPherson College*
- Career Connection in Biology (BI388; F 2014) – *McPherson College*
- Environmental Stewardship Seminar (NS350; F 2014, Sp 2015, 2016) – *McPherson College*
- Readings and Research in Biology: Ecology (BI445; F 2014) – *McPherson College*
- Biodiversity (G-BI201; Sp 2014, 2016) – *McPherson College*
- Environmental Chemistry (G-CH106; F 2011, 2013, 2015) – *McPherson College*
- Evolution (BI391; Sp 2013, 2015) – *McPherson College*
- Ace Freshman Seminar (G-ID101; F/Sp 2012, 2013) – *McPherson College*
- Environmental Biology (G-BI106; F 2012) – *McPherson College*
- Environmental Science (G-NS141; Sp 2012, 2013, 2015, 2016) – *McPherson College*
- Molecular Genetics (BI384; Sp 2012, 2014) – *McPherson College*
- Statistical Data Analysis (BI310; Int 2012-2016) – *McPherson College*
- Research Methods (NS300; F 2011-2016) – *Team taught w/ Natural Science Faculty @ McPherson College*
- Junior Seminar (NS375; Sp 2011-2016, Coordinator 2015) – *Team taught w/ Natural Science Faculty @ McPherson College*
- Senior Research (NS475; F/Sp 2011-2016) – *Team taught w/ Natural Science Faculty @ McPherson College*
- General Biology (BS 101; Sp 2006) – *Cloud County Community College*
- Principles of Biology (BS 110; Sp 2006) – *Cloud County Community College*
- College Biology (BS 101; Sum, F 2002) – *Highland Community College*
- Ecology & Evolution Lab (BIOS 207; F 2010, 2008, 2007, Sp 2009, 2011) – GTA @ *University of Nebraska-Lincoln*
- General Biology Lab (BIOS 101L; Sp 2006) – GTA @*University of Nebraska-Lincoln*
- Principles of Biology (BIOL 198; Sum 2005, Sp 2005, 2003) – GTA @ *Kansas State University*
- Organismic Biology Lab (BIOL 201; Sp, F 2004) – GTA @ *Kansas State University*
- Genetics Lab (BIO 3315; Sp 2002) – GTA @ *University of Texas-Arlington*
- Introductory Biology Lab (BIO 1282L; F 2001) – GTA @ *University of Texas-Arlington*

<u>Guest Lectures/Instruction</u>

- Hypothesis Testing. Psychology and Sociology Senior Seminar (PY/SO475) – *McPherson College* (Sp 2016)
- Panel Guest Speaking on Entrepreneurship. Sophomore Seminar (G-ID201) – *McPherson College* (Fall 2015)
- Hypothesis Testing. Psychology and Sociology Senior Seminar (PY/SO475) – *McPherson College* (Sp 2014)

- Sex differences in spiders. Men and Women (G-EN235) – *McPherson College* (Sp 2012)
- Arthropod/Spider Identification Lab. Organismal Biology (BIOS 103) – *University of Nebraska-Lincoln* (Fall 2010)
- Discussions on sensory biases. Readings in Animal Behavior (BIOS 462) – *University of Nebraska-Lincoln* (Fall 2010)
- Discussions on sexually antagonistic coevolution. Principles of Behavioral Ecology (Graduate Course: BIOS 804) – *University of Nebraska-Lincoln* (Spring 2010)
- Sexual communication and mating behaviors in arachnids. Invertebrate Zoology (BIOS 381) – *University of Nebraska-Lincoln.* (Fall 2009)

Other Educational Activities

- Led Scientific Reading Group – *McPherson College*
  - The Selfish Gene (Spring 2012)

K-8 Educational Activities Developed

-Self-published and freely accessible on my personal website (https://sites.google.com/site/wilgersspider/outreach)

- Spider Growth: The Hard Facts of Living with an Exoskeleton. 2016. https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnx3aWxnZXJzc3BpZGVyfGd4OjIzNGZiZWZkYjBlODRhNTI
- Moth Camouflage: Effects of a Changing Environment. 2016. Co-developed with students of NS350 (L. Fleming, T. Lambert, T. Haycock, B. Ware, and S. Evans). https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnx3aWxnZXJzc3BpZGVyfGd4Ojc1NGQ1YTY0ZGJiZDQ3MjI
- Investigating Community Food WEBS: The Ecological Importance of Spiders. 2015. https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnx3aWxnZXJzc3BpZGVyfGd4OjU0Y2I4YmFiYWJjY2U1MzY
- Design an Arachnid. 2015. https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnx3aWxnZXJzc3BpZGVyfGd4OjVkNzM2ZmMwODg2OGIzNGM
- Landscape Design & Habitat Conservation. 2015. Co-developed with students of NS350, Environmental Stewardship (N. Schowengerdt, L. Fleming, T. Lambert, and C. Callejas). https://docs.google.com/document/d/1WMEMcajRe8bmB3MFsMCOzgwQPkmHgpIFnUGGQYBP4ww
- Bee Biology, Pollination & Conservation. 2015. Co-developed with students of NS350, Environmental Stewardship (N. Schowengerdt, L. Fleming, T. Lambert, and C. Callejas). https://docs.google.com/document/d/1CXSk95xDbzDJ_nF5Ib0UNMaCZpiwzOuFysrzdKJ9gl4

Teaching Workshop Presentations

2014 *McPherson College*. Entrepreneurship Education @ MC. Faculty Workshop/Orientation

2009 *University of Nebraska-Lincoln*. Teaching at UNL: Campus-wide Workshop for Graduate Teaching Assistants. (Aided M. Foss in workshop session).

2008 *Univesity of Nebraska-Lincoln.* Writing in the Sciences Workshop. (Co-presented with C. Brassil, S. Tarabochia).

FACULTY/PROFESSIONAL DEVELOPMENT

- ESA/QUBES Data Discovery Faculty Mentoring Network (2016)
- Kansas Leadership Center: You.Lead.Now Development Workshop (2015)
- Kansas Campus Compact Service-Learning Workshop (2014)
- Drucker Institute Innovation Training (2013)
- Campus Compact Heartland Conference (2013)
- GLOW Safe Zone Training (2013)
- iPlant Collaborative: Genomics in Education Workshop (2012)
- Kansas Campus Compact Hunger Dialogue Meeting (2012)

INSTITUTIONAL SERVICE

Positions

- Mudhuckers Ultimate Frisbee Team Student Group Faculty Sponsor (2016)
- New Community Project Student Group Faculty Sponsor (2015-Current)
- ACE Mentor (2012, 2013)
- Faculty Board of Trustees Observer (2012)
- Science & Technology Division Secretary (2012-2015)

Campus Committees

- Faculty Policies Committee (2013-Current)
- Teacher Ed Board (2012-Current)
- Entrepreneurship Program Advisory Council (2014-Current)
- Entrepreneurship Team (2012-Current)
- Emergency Response Team (2015-Current)
- Retention Task Force (2014)
- Pathways Technology Team (2013)
- MC Campaign Name Brainstorming Committee (2012)
- Graduation Task Force: Technology Sub-committee (2012)
- Graduation Task Force: Athletic Integration Sub-committee (2012)
- Participated in Noel-Levitz Retention Planning Workshop (2011)

Campus Activities

- Horizon Faculty Fellows Program Leader (2015-16)
- Jump Start Kansas Judge (2015)
- Field of Screams Participant (2014)
- Global Entrepreneurship Challenge Judge (2014, 2015)
- Student Service Dinner (2011, 2013, 2014)
- ACE TED Talk (2014)
- Bulldog Visit Day Science & Technology Division Representative (2014)
- Junior General Education Assessment Proctor (2014)
- MC Markarian Colony Game Natural Sciences Liaison (2014)
- Freshman Enrollment Day (Summer 2014, 2015)
- SAB Casino Night Dealer (2013, 2014, 2016)

- MC Scholars Weekend Lecturer (2014)
- Global Entrepreneurship Week Jump in for Change Contest Judge (2013)
- M-Powered Camp Class Instructor (2013)
- Campus Blowout Volunteer (2012-2015)
- SAB Movie Night Sponsor (2013-2015)
- SAB Talent Show Judge (2012)
- Major's Day (2012)
- Presidential Scholarship Day (Sp 2012, F 2012, Sp 2013, F 2014, Sp 2015, Sp 2016)

Campus Improvement Projects
- Developed Interdisciplinary Health Science Major (2016)
- Developed Service-Learning Handbook (2013)
- Developed USA Today Campus Readership Program (2012)

PROFESSIONAL SERVICE

Invited Reviewer of Manuscripts

Acta Ethologica, African Zoology, Amphibia-Reptilia, Animal Behaviour, Behaviour, Behavioral Ecology and Sociobiology, Biological Conservation, *Biological Journal of the Linnean Society, Bulletin of the Oklahoma Ornithological Society, Current Zoology, Ethology, Journal of Arachnology, Journal of Comparative Psychology, Journal of Ethology, Journal of the Kansas Entomological Society, Natural Areas Journal, PeerJ, Physiological Entomology, Southwestern Naturalist*

Invited Reviewer of NSF Proposals
- CAREER Proposal (2015)

Editorial Activities
- Journal of Kansas Entomological Society Editorial Board (2016-Current)

Leadership Activities
- President of Kansas Entomological Society (2015-Current)
- Kansas Academy of Science Executive Council Member-At-Large (2015-2017)
- Joint Meeting of Kansas Academy of Science and Kansas Entomological Society host (2016 meeting hosted at McPherson College)
- Southwestern College Science Advisory Council (2013-Current)
- American Arachnological Society Executive Committee Graduate Student Representative (2009-2011)
- Midwest Ecology & Evolution Conf. keynote speaker committee chair (2009)
- UNL Biology Graduate Student Assoc. Vice President (2007)
- KSU Biology Graduate Student Assoc. Treasurer (2004)
- 31st Annual Kansas Herpetological Society meeting local committee (2004)
- KSU Biology Graduate Student Assoc. travel grant committee (2004)

Volunteer

- Quivira National Wildlife Refuge BioBlitz participant (2015; brought 2 MC undergraduates)
- Kansas Academy of Science Annual Meeting session moderator (2015)
- Quivira National Wildlife Refuge BioBlitz participant (2013; brought 2 MC undergraduates)
- Kansas Academy of Science Annual Meeting session moderator (2013)
- Create/Maintain Arachnid Listserv – arachnid@listserv.unl.edu (2010-Current)
- Sterling College Biology Department Program outside reviewer (2010)
- Midwest Ecology & Evolution Conference session moderator (2009)
- Fort Riley herpetofaunal count volunteer (2005)
- Konza Prairie Biological Station volunteer burn crew (2003-2005)
- Konza Prairie Biological Station bison roundup crew (2004)

COMMUNITY SERVICE

Volunteer

- Crop Walk to End Hunger – Helped coordinate event (2015)
- Camp Colorado Junior Camp Counselor (2015)
- McPherson Children's Water Festival Event Leader (2013, 2014)
- McPherson Children's Water Festival Assistant (2012)
- Provide complementary water quality tests McPherson County residents (2012-Current)
- 1st Grade Assistant for Eisenhower Elementary School "Dive into Science" Program (2012)
- Lincoln High Schools Science Fair Judge (2010, 2009)

Public Outreach

- Great Plains Nature Center (Wichita, KS) – Invited guest speaker for Senior Wednesdays Event (2016)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by Flint Hills Discovery Center, Manhattan, KS) – Interactive spider walk for kids and families (2016)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by Topeka Zoo, Topeka, KS) – Interactive spider walk for kids and families (2016)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by McPherson Public Library, McPherson, KS) – Interactive spider walk for kids and families (2016)
- Lincoln Elementary School (McPherson, KS) - Environmental Stewardship class led conservation activity on moth camouflage in 5th grade class (2016)
- Lincoln Elementary School (McPherson, KS) - Environmental Stewardship class led conservation activity on moth camouflage in 5th grade class (2016)
- Washington Elementary School (McPherson, KS) - Led conservation activity on moth camouflage in 4th grade class (2016)
- Washington Elementary School (McPherson, KS) - Environmental Stewardship class led conservation activity on moth camouflage in 3rd grade class (2016)
- U.S. Science & Engineering Festival (Washington D.C.) – Helped run Eight-Legged Encounters Exhibit (estimated 15,000 visitors to exhibit in 2 days; 2016)
- Eisenhower Elementary School (McPherson, KS) – Environmental Stewardship class led conservation activity on moth camouflage in 4th grade class (2016)
- Monitor Church of the Brethren – Guest speaker for Father/Son Banquet (2016)

- Valley Center High School (KS) – Guest speaker on animal behavior research (2016)
- Eisenhower Elementary School (McPherson, KS) – Invited speaker to lead activity "Investigating Community Food WEBS: The Ecological Importance of Spiders" (2015)
- Salina Parks and Recreation Spooky Trail Halloween Event (Salina, KS) – Outdoor Spider Laboratory (Booth ran with MC student Bradley Campbell; 2015)
- Eisenhower Elementary School (McPherson, KS) – Invited speaker on spiders for Pre-Kindergarten class (2015)
- Eisenhower Elementary School (McPherson, KS) – Invited speaker to lead activity on landscape design and habitat conservation (Activity developed by Environmental Stewardship majors; 2015)
- Soderstrom Elementary School (Lindsborg, KS) – Invited speaker on spiders (2015)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by Lakewood Discovery Center, Salina, KS) – Interactive spider walk for kids and families (2015)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by Flint Hills Discovery Center, Manhattan, KS) – Interactive spider walk for kids and families (2015)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by Topeka Zoological Park, Topeka, KS) – Interactive spider walk for kids and families (2015)
- Spiders: Eight-legged Gems on the Prairie Event (Hosted by McPherson Public Library, McPherson, KS) – Interactive spider walk for kids and families (2015)
- Kids Kampus Preschool (McPherson, KS) – Talked with multiple classes about spiders (2015)
- Eisenhower Elementary School (McPherson, KS) – Invited speaker to lead activity on bee conservation (Activity developed by Environmental Stewardship majors; 2015)
- McPherson College – Coordinated Earth Day Activities & Rain Barrel Giveaway (2015)
- Exploration Place (Wichita, KS) – Wildlife Rescue Exhibit on Habitat Conservation (Developed by Environmental Stewardship Class; 2015)
- Cub Scout Pack 133 Blue & Gold Banquet (McPherson, KS) – Invited speaker on conservation and spiders (2015)
- Cedars Retirement Community (McPherson, KS) – First Friday Lecture. "Animals say the darnedest things in the darnedest ways" (2014)
- Soderstrom Elementary School (Lindsborg, KS) – Invited speaker on spiders (2014)
- McPherson Community Spider Night (2014)
- Eisenhower Elementary School (McPherson, KS) – Invited guest to talk about scorpions (2014)
- Church of the Brethren, Alexander Mack Men's Group (McPherson, KS) – Invited guest speaker (2013)
- Eisenhower Elementary School (McPherson, KS) – Invited guest to talk to 4th grade class about spiders (2013)
- Mt. Hope Elementary School (Mt. Hope, KS) – Assembly speaker on spiders (2013)
- McPherson Community Spider Night (2013)
- Holy Cross Lutheran School (Wichita, KS) – School-wide assembly speaker on spiders (2013)
- Eisenhower Elementary Earth Day Activity – organized classroom (grades 1st – 4th) presentations and activities surrounding Earth day and environmental awareness done by my Environmental Science class (2013)

- Spider session with Wichita Boy Scout Troop #524 (2013)
- Kansas Wetland Education Center – Educational program on spiders (2013)
- Valley Center High School (KS) – Guest speaker on animal behavior research (2012)
- Cedars Retirement Community (McPherson, KS) – Guest speaker on spiders for monthly activity (2012)
- McPherson Community Spider Night (2012)
- All Schools Day Parade – organized entry from Environmental Science class centered around environmental activism education (2012)
- McPherson College Spider Night (2012)
- Eisenhower Elementary School (McPherson, KS) – invited guest to talk about insects (2012)
- McPherson Middle School – Organized all environmental chemistry students to present to 8th grade science classes (2011)
- Eisenhower Elementary School (McPherson, KS) – invited guest to talk about spiders (2011)
- Westminster Presbyterian Preschool (NE) – invited guest to talk about spiders (2010)
- Cornhusker Council Cub Scout Night at the Museum – Spider booth (2009)
- 4-H Nebraska State Science & Technology Conference spider camp (2008, 2009)
- 4-H Nebraska State Science & Technology Conference spider walk (2007, 2008, 2009)
- Northeast Upward Bound Program – Spider Lab Experience (2009)
- 4-H National Science & Technology Conference spider walk (2006)
- Fort Riley Elementary School (KS) – invited guest to talk about prairie fauna (2006)
- Konza Prairie Biological Station – tour guide (2005)
- Konza Prairie Biological Station – Visitor's Day volunteer (2004)

PROFESSIONAL MEMBERSHIPS

Sigma Xi – Scientific Research Society
American Arachnological Society
Kansas Academy of Sciences
Beta Beta Beta Biological Honors Society