

THEODORE J MORGAN

CURRICULUM VITAE

1. CONTACT INFORMATION

KANSAS STATE UNIVERSITY:

Associate Professor
Division of Biology
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THE NATIONAL SCIENCE FOUNDATION:

Program Officer
Directorate for Biological Sciences
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Physiological and Structural Systems Cluster
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Alexandria, VA 22314
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2. EDUCATION

- 1997 - 2002 **Ph.D., Biological Sciences** (applied minor in statistics), Dissertation title: The effects of early-age selection on molecular and quantitative genetic variation in house mice. Washington State University, Pullman, WA [mentors: Patrick A. Carter (Biology) and Marc A. Evans (Statistics)].
- 1993 - 1997 **B.S., Department of Ecology and Evolutionary Biology.** The University of Arizona, Tucson, AZ [mentors: William Calder (EEB; deceased) and Christina Kennedy (Plant Pathology; deceased)].

3. PROFESSIONAL APPOINTMENTS

- 2017 - **Program Director** (Visiting Scientist, Engineer, and Educator), Integrative Ecological Physiology Program (IEP), Physiological and Structural Systems Cluster (PSS), Integrative Organismal Systems (IOS), Directorate for Biological Sciences, US National Science Foundation, Alexandria, VA.
- 2012 - **Associate Professor**, Division of Biology, Kansas State University, Manhattan, KS.
- 2012 - **Affiliate Faculty Member**, Interdepartmental Genetics Program, Kansas State University, Manhattan, KS.
- 2011 - 2017 **REU Director**, Kansas State University Biology, National Science Foundation Research Experiences for Undergraduates (REU) Site, Manhattan, KS.
- 2007 - **Ancillary Faculty Member**, Department of Entomology, Kansas State University, Manhattan, KS.
- 2006 - 2012 **Assistant Professor**, Division of Biology, Kansas State University, Manhattan, KS.
- 2005 - 2006 **UNC System Genomics Postdoctoral fellow**, Department of Genetics, North Carolina State University, Raleigh, NC (mentor: T.F.C. Mackay).
- 2002 - 2005 **NIH/NRSA Postdoctoral fellow**, Department of Genetics, North Carolina State University, Raleigh, NC (mentor: T.F.C. Mackay).
- 1997 - 2002 **Graduate Research/Teaching Assistant**, School of Biological Sciences, Washington State University, Pullman, WA.
- 1996 - 1997 **Research Assistant**, Department of Plant Pathology, University of Arizona, Tucson, AZ.
- 1996 **Field Assistant**, Department of Renewable Natural Resources, University of Arizona, Tucson, AZ.

4. ADMINISTRATIVE EXPERIENCE

SUMMARY: I have extensive administrative experience at the federal, university, and departmental levels. From these leadership positions I have developed an administrative approach that strives to be highly collaborative, both within and among units to achieve common goals. At the National Science Foundation, I am currently a program officer leading the Integrative Ecological Physiology, Enabling Discovery through Genomic Tools, and the Rules of Life programs. For six years I was the Director of the Biology Research Experiences for Undergraduate Program at Kansas State. In addition, I was also the chair of the Division of Biology's Graduate Recruitment Committee, The Seminar Committee, and The Section of Ecology and Evolutionary biology. Additionally, I have been an active member of the Ecological Genomics Institute since my arrival in 2006, serving in leadership roles on The Steering Committee and The Symposium Committee. Finally, before departing for the NSF in 2017, I had an active leadership role (Chair, Vice-Chair) in the Flint Hills Human Rights Project, a local organization focused on building a more diverse and inclusive community for the citizens of Manhattan, Kansas.

- 2017 - **Program Officer.** National Science Foundation, Directorate for Biological Sciences, Division of Integrative Organismal Systems (IOS), Alexandria, VA.
- *Integrative Ecological Physiology (IEP) Program within IOS.* My core program is the IEP Program. Within IEP I am one of three Program Officers who are responsible for the review and funding decisions on approximately 100 proposals each fiscal year using our ~\$18M program budget.
 - *Enabling Discovery through Genomic Tools (EDGE) in IOS.* I am the chair of the EDGE Program Working Group, which is an IOS wide program for the development of functional genomic tools in species where such tools are lacking. As chair of the working group, I work with four other program officers to review and make funding decisions on approximately 100 proposals each fiscal year on our ~\$8M program budget.
 - *Rules of Life Working Group for the Office of the Assistant Directorate for Biological Sciences.* This working group of eight program officers is responsible for making co-funding decisions and distributing ~\$30M for Rules of Life proposals submitted to multiple Divisions within the BIO Directorate.
 - *Interagency committee on Animal Genomics.* I am a member of this committee composed of program officers and program leaders from NSF, NIH, USDA, NIFA, USAID which meets quarterly to discuss the development of synergy between diverse programs in animal genomics across the federal government.
 - *Search committee service.* I have served on the search committee for permanent two program officers in the Physiological Structural Systems Cluster (Physiological Mechanisms and Biomechanics Program), as well the search committee for the IOS Deputy Division Director.
 - *IOS blog Working Group.* I am a member and frequent contributor to the IOS blog that is used to disseminate IOS news to the scientific community.
- 2014 - 2015 **Section Chair.** Ecology and Evolutionary Biology Section, Division of Biology, Kansas State University, Manhattan KS. As section chair I was responsible for coordinating strategic planning for departmental and programmatic goals, reviews of the course curriculum for biology majors, coordinating course proposals, planning faculty recruitment, and assisting in the weekly seminar series in Ecology and Evolutionary Biology.

- 2011 - 2017 **REU Director.** Division of Biology, Kansas State University, Manhattan, KS. I was the Director of the National Science Foundation funded, Kansas State University Biology Research Experiences for Undergraduates (REU) Site for six years from 2011 to 2017. As Director I was responsible for coordinating student recruitment and selection, directing a 10-week summer program in ecology and evolutionary biology in changing environments for 6 years, and mentoring undergraduate students for independent research projects. The REU Site program supported nearly 200 undergraduate research scholars and was funded by two grants from the National Science Foundation. I have been involved with the REU site as a mentor since 2007.
- 2011 - 2017 **Executive Board of The Flint Hills Human Rights Project (FHHRP).** FHHRP is a private, non-profit organization that serves as a resource for the lesbian, gay, bisexual and transgender members of the Manhattan, Kansas and Flint Hills community and for visitors to the area (fhhrp.com). I stepped down from my leadership position when I moved to the National Science Foundation.
- Leadership roles:
 - 2015 - 2017, Vice chair
 - 2013 - 2015, Board Member at Large
 - 2011 - 2013, Chair
 - Recent accomplishments: During my time as vice chair (2015-2017), FHHRP worked with the Manhattan, Kansas community and the city commission to amend their non-discrimination ordinance to include sexual orientation and gender identity as protected classes in hiring, employment, and housing. The ordinance passed 5 to 0 on 16 August 2016. In 2014, FHHRP work with the Manhattan, Kansas school board (USD 383) to amend the district's non- discrimination policy to include sexual orientation and gender identity as protected classes. The policy passed 5 to 2 on 7 May 2014.
- 2009 - 2017 **Division of Biology Committee leadership.** Division of Biology, Kansas State University, Manhattan, KS.
- *Seminar committee leadership.* I was the chair or co-chair of the seminar committee from 2014 until 2017, during this time I worked to increase the diversity and scientific profile of the biology seminar schedule, while also mentoring the graduate students in strategies to effectively recruit top notch speakers to the Division of Biology seminar series. I have served on this committee since 2009.
 - *Graduate recruitment committee.* I was the chair or co-chair of the graduate recruitment committee from 2012 until 2017, during this time I worked with the graduate recruitment committee, the graduate affairs committee, and the faculty of the Division of Biology to recruit and retain students with high potential of success in graduate school. This was done via the organization of an annual graduate recruitment event, that was the capstone activity for the recruitment of students. That said I was also active in attending undergraduate research meetings and seminars, where I attempted to recruit students to Kansas State University's Division of Biology. I have been a member of this committee since it was founded in 2011.
 - *Division of Biology website redesign committee.* During 2014 and 2015, Bob Lehew and I overhauled the horribly outdated Division of Biology website. This was initiated for a number of different reasons, but they all focused on the recruitment and retention of productive colleagues, postdocs, students, and staff to the Division of

Biology.

2006 - 2017 **Ecological Genomics Institute leadership.** Ecological Genomics Institute (EGI), Kansas State University, Manhattan, KS.

- *Steering Committee. Member.* As a member of the steering committee from 2014 to 2017, I was responsible for coordinating strategic planning of the institute and programmatic goals, planning the institute's vision and annual symposium, and developing strategies for the long-term success of the EGI.
- *Symposium Organization Committee.* As a member of the symposium organization committee I worked with colleagues in the EGI, to organize, fund, and deliver the Ecological Genomics Symposium. This meeting was a 2.5 day meeting held locally or in Kansas City that regularly attracted over 100 participants to learn about the leading edge of Ecological Genomics. I was also able to secure two extramural awards from the National Science foundation to fund this meeting during the ten years (2006 to 2016) that I served on this committee.

5. RESEARCH EXPERIENCE

PUBLICATIONS (^{UG}undergraduate student, ^{GS}graduate student or ^{PD}postdoctoral co-author):

- Freda, P.J.^{GS}, Z.M. Ali^{UG}, N. Heter^{UG}, G.J. Ragland, and **T.J. Morgan** (in revision) Stage-specific genotype-by-environment interactions for cold and heat hardiness in *Drosophila melanogaster*. *Heredity*. *Accepted pending revision*
- Gerken, A.R.^{GS}, O.C. Eller^{UG}, and **T.J. Morgan** (2018) Speed of exposure to rapid cold hardening and genotype drive the level of acclimation response in *Drosophila melanogaster*. *J. Thermal Biol.* doi.org/10.1016/j.jtherbio.2018.06.011.
- Morgan, T.J.**, M.A. Herman, L.C. Johnson, B.J.C.S. Olson, and M.C. Ungerer (2018) Ecological Genomics: genes in ecology and ecology in genes. *Genome*. 61: doi.org/10.1139/gen-2018-0022.
- Everman, E.R.^{GS}, P.J. Freda^{GS}, M. Brown^{UG}, A.J. Schieferecke^{UG}, G.J. Ragland, and **T.J. Morgan** (2018) Ovary development and cold tolerance of the invasive pest *Drosophila suzukii* Matsumura in the central plains. *Env. Ento.* nvy074, doi.org/10.1093/ee/nvy074.
- Williams, C.M., J.R. Rocca, A.S. Edison, D.B. Allison, **T.J. Morgan** and D.A. Hahn (2018) Cold adaptation does not alter ATP homeostasis during cold exposure in *Drosophila melanogaster*. *Integr. Zool.* doi:10.1111/1749-4877.12326.
- Everman, E.R.^{GS}, J.L. Delzeit^{UG}, J. L., F.K. Hunter^{UG}, J.M. Gleason, and **T.J. Morgan** (2018) Costs and benefits of cold acclimation on survival and reproductive behavior in *Drosophila melanogaster*. *PLOS One*. 13(5): e0197822. doi.org/10.1371/journal.pone.0197822.
- Everman, E.R.^{GS} and **T.J. Morgan** (2018) Antagonistic pleiotropy and mutation accumulation contribute to age-related decline in stress response. *Evolution*, 72: 303–317. doi:10.1111/evo.13408.
- Freda, P.J.^{GS}, J.T. Alex^{UG}, **T.J. Morgan**, and G.J. Ragland (2017) Genetic decoupling of thermal tolerance across metamorphosis in *Drosophila melanogaster*. *Integr. Comp. Biol.*, 57: 999–1009. doi.org/10.1093/icb/ix102.
- Noh S.G.^{PD}, E.R. Everman^{GS}, C. Berger^{UG}, and **T.J. Morgan** (2017) Seasonal variation in basal and plastic cold tolerance: adaptation is influenced by both long- and short-term phenotypic plasticity. *Ecol Evol.* 7: 5248–5257. doi.org/10.1002/ece3.3112.
- Everman, E.R.^{GS}, N. Ledbetter^{UG}, and **T.J. Morgan** (2017) The persistence of short-term cold acclimation in *Drosophila melanogaster* (Diptera: Drosophilidae). *Physiol. Entomol*, 42: 291–298. doi: 10.1111/phen.12191.

- Williams, C.M., M.D. McCue, N.E. Sunny, A. Szejner-Sigal, **T.J. Morgan**, D.B. Allison, D.A. Hahn (2016) Cold adaptation increases rates of nutrient flow and metabolic plasticity during cold exposure in *Drosophila melanogaster*. *Proc. R. Soc. B.*, 283: 20161317. doi: 10.1098/rspb.2016.1317
- Marck, A.^{GS}, G. Berthelot, V. Foulonneau, A. Marc, J. Antero-Jacquemin, P. Noirez, A.M. Bronikowski, **T.J. Morgan**, T. Garland Jr., P.A. Carter, P. Hersen, J. Di Meglio and J. Toussaint (2016) Age-related changes in locomotor performance reveal a similar pattern for *Caenorhabditis elegans*, *Mus domesticus*, *Canis familiaris*, *Equus caballus* and *Homo sapiens*. *J Gerontol A Biol Sci Med Sci*. 72:455-463. doi: 10.1093/gerona/glw136.
- Williams, C.M.^{PD}, A. Szejner-Sigal, **T.J. Morgan**, A.S. Edison, D.B. Allison, and D.A. Hahn (2016) Adaptation to low temperature exposure increases metabolic rates independently of growth rates. *Integr. Comp. Biol.* 56: 66-72. doi: 10.1093/icb/icw009.
- Gerken, A.R.^{GS}, T.F.C. Mackay, and **T.J. Morgan** (2016) Artificial selection on chill- coma recovery time in *Drosophila melanogaster*: Direct and correlated responses to selection. *J. Thermal Biol.* 59: 77-85. doi.org/10.1016/j.jtherbio.2016.04.004.
- Everman, E.R.^{GS}, R.A. Cloyd, C. Copland, and **T.J. Morgan** (2015) Short Communication: First Report of Spotted Wing Drosophila, *Drosophila suzukii* Matsumura (Diptera: Drosophilidae) in Kansas. *J. Kan Ento. Soc.* 88: 128-133. doi.org/10.2317/JKES1402.14.1.
- Johnson L.C., J.T. Olsen, H. Tetreault^{GS}, A. DeLaCruz^{UG}, J. Bryant, **T.J. Morgan**, M. Knapp, N. Bello, S. Baer, and B.R. Maricle (2015) Intraspecific variation of a dominant grass and local adaptation in reciprocal garden communities along a US Great Plains' precipitation gradient: Implications for grassland restoration with climate change. *Evol Appl.*, 8: 705–723. doi: 10.1111/eva.12281.
- Gerken, A.R.^{GS}, O.C. Eller^{UG}, D.A. Hahn, and **T.J. Morgan** (2015) Constraints, independence, and evolution of thermal plasticity: probing genetic architecture of long and short-term thermal acclimation. *Proc. Natl. Acad. Sci. USA* 112: 4399-404. doi: 10.1073/pnas.1503456112.
- Gray, M.M.^{GS}, P. St. Amand, E.D. Akhunov, M. Knapp, K.A. Garrett, **T.J. Morgan**, Sara G. Baer, B.R. Maricle, and L.C. Johnson (2014) Ecotypes of an Ecologically Dominant Grass (*Andropogon gerardii*) Exhibit Genetic Divergence across the U.S. Midwest Environmental Gradient. *Molecular Ecology*. 23: 6011-28. doi: 10.1111/mec.12993.
- Williams C.M.^{PD}, M. Watanabe, M.R. Guarracino, M.B. Ferrero, A.S. Edison, **T.J. Morgan**, A. Boroujerdi, and D.A. Hahn (2014) Cold adaptation shapes the robustness of metabolic networks in *Drosophila melanogaster*. *Evolution*. 68: 3505-23. doi:10.1111/evo.12541.
- Fallis, L.C.^{GS}, J.J. Fanara, and **T.J. Morgan** (2014) Developmental thermal plasticity among *Drosophila melanogaster* populations. *J. Evol. Biol.* 27: 557-64. doi:10.1111/jeb.12321.
- Fallis, L.C.^{GS}, J.J. Fanara, and **T.J. Morgan** (2012) Genetic variation in heat-stress resistance among South American *Drosophila* populations. *Genetica*. 139: 1331-37. doi: 10.1007/s10709-012-9635-z
- Kawakami, T.^{PD}, **T.J. Morgan**, J.B. Nippert, T.W. Ocheltree^{GS}, R. Keith^{UG}, P. Dhakal, and M.C. Ungerer (2011) Natural selection drives clinal life history patterns in the perennial sunflower species, *Helianthus maximiliani*. *Molecular Ecology*. 20: 2318-2328. doi: 10.1111/j.1365-294X.2011.05105.x.
- Westphal, M.F.^{PD}, J. Massie^{GS}, J.M. Bronkema^{UG}, B. Smith, and **T.J. Morgan** (2011) Heritable variation in garter snake color patterns between populations in a postglacial landscape. *PLoS One* 6: e24199. doi.org/10.1371/journal.pone.0024199.
- Westphal, M.F.^{PD}, S.R. Morey, J.C. Uyeda^{GS}, and **T.J. Morgan** (2011) Molecular phylogeny of the subfamily Amphistichinae (Teleostei: Embiotocidae) reveals a convergent loss of red pigmentation in two rapidly evolving lineages of sand-dwelling surfperch. *Journal of Fish Biology*. 79: 313-330. doi:10.1111/j.1095-8649.2011.03011.x.
- Clowers, K.J.^{UG}, R.F. Lyman, T.F.C. Mackay, and **T.J. Morgan** (2010) Genetic variation in *Senescence marker protein-30* is associated with natural variation in cold tolerance in *Drosophila*. *Gen. Res. (Camb)*. 92: 103-113. doi: 10.1017/S0016672310000108.

- Westphal, M.F.^{PD} and **T.J. Morgan** (2010) Quantitative genetics of pigmentation development between populations of the common garter snake, *Thamnophis sirtalis*. *J Heredity*. 101: 573-580. doi: 10.1093/jhered/esq044.
- Nachappa, P.^{GS}, D.C. Margolies, J.R. Nechols, and **T.J. Morgan** (2009) Response of a complex foraging phenotype to selection on its component traits. *Evolutionary Ecology* 24: 631-655. doi.org/10.1007/s10682-009-9318-0.
- Jordan, K.W.^{GS}, M.A. Carbone, A. Yamamota, **T.J. Morgan**, and T.F.C. Mackay (2007) Quantitative genomics of locomotor behavior in *Drosophila melanogaster*. *Genome Biology* 8: R172. doi.org/10.1186/gb-2007-8-8-r172.
- Morgan, T.J.** and T.F.C. Mackay (2006) Quantitative trait loci for thermotolerance phenotypes in *Drosophila melanogaster*. *Heredity* 96: 232-242. doi.org/10.1038/sj.hdy.6800786
- Edwards, A.C.^{GS}, S.M. Rollmann, **T.J. Morgan**, and T.F.C. Mackay (2006) Quantitative genomics of aggressive behavior in *Drosophila melanogaster*. *PLoS Genetics* 2: 1386 -1395. doi.org/10.1371/journal.pgen.0020154.
- Rollmann, S.M., M.M. Magwire^{GS}, **T.J. Morgan**, E.D. Özsoy, A. Yamamoto, T.F.C. Mackay, and R.R.H. Anholt (2006) Pleiotropic fitness effects of the *Tre1/Gr5a* region in *Drosophila*. *Nature Genetics* 38: 824-829. doi:10.1038/ng1823.
- Jordan, K.W.^{GS}, **T.J. Morgan**, and T.F.C. Mackay (2006) Quantitative trait loci for locomotor behavior in *Drosophila melanogaster*. *Genetics* 174: 271-284. doi.org/10.1534/genetics.106.058099.
- Wilson, R.H.^{GS}, **T.J. Morgan**, and T.F.C. Mackay (2006) High-resolution mapping of quantitative trait loci affecting increased life span in *Drosophila melanogaster*. *Genetics* 173: 1455-1463. doi: 10.1534/genetics.105.055111.
- Carbone, M.A., K.W. Jordan^{GS}, R.F. Lyman, S.T. Harbison^{GS}, J. Leips, **T.J. Morgan**, M. DeLuca, P. Awadalla, and T.F.C. Mackay (2006) Phenotypic variation and natural selection at Catsup, a pleiotropic quantitative trait gene in *Drosophila*. *Current Biology* 16: 912-919. doi: 10.1016/j.cub.2006.03.051.
- Bronikowski, A.M., **T.J. Morgan**, T. Garland Jr. and P.A. Carter (2006) The evolution of aging and age-related physical decline in mice selectively bred for high-voluntary exercise. *Evolution* 60: 1494-1508.
- Morgan, T.J.**, M.A. Evans, T. Garland Jr., J.G. Swallow, and P.A. Carter (2005) Molecular and quantitative genetic divergence among populations of house mice with known evolutionary histories. *Heredity* 94: 518-525. doi: 10.1038/sj.hdy.6800652.
- Mackay, T.F.C., S.L. Heinsohn, R.F. Lyman, A.J. Moehring^{GS}, **T.J. Morgan**, and S.M. Rollmann (2005) Genetics and genomics of *Drosophila* mating behavior. for joint publication: In J. Hey, W.M. Fitch, F.J. Ayala, eds. Systematics and the Origin of the Species. On Ernst Mayr's 100th Anniversary. *National Academies Press and Proc. Natl. Acad. Sci. USA* 102: 6622-6629. doi.org/10.1073/pnas.0501986102.
- Bronikowski, A.M., P.A. Carter, **T.J. Morgan**, T. Garland Jr., N.E. Ung, T.D. Pugh, R. Weindruch, and T.A. Prolla (2003) Lifelong voluntary exercise prevents age-related alterations in gene expression in the heart. *Physiological Genomics* 12: 129-138. doi: 10.1152/physiolgenomics.00082.2002.
- Morgan, T.J.**, T. Garland Jr., and P.A. Carter (2003) Ontogenies in mice selected for high-voluntary wheel running activity. I. Mean ontogenies. *Evolution* 57: 646-657.
- Morgan, T.J.**, T. Garland Jr., B.L. Irwin^{UG}, J.G. Swallow, and P.A. Carter (2003) The mode of evolution of molecular markers in populations of house mice under artificial selection for locomotor behavior. *J Heredity* 94: 236-242.
- Bronikowski, A.M., **T.J. Morgan**, T. Garland Jr., and P.A. Carter. (2002) Anti-oxidant gene expression in active and sedentary house mice (*Mus domesticus*) selected for high voluntary wheel-running behavior. *Genetics* 161: 1763-1769.

- Teixeria, K.R.S., M. Wulling, **T. Morgan**, R. Galler, E. Zellermann, J.I. Baldani, C. Kennedy, and D. Meletzus (1999) Molecular analysis of the chromosomal region encoding the nifA and nifB genes of *Acetobacter diazotrophicus*. *FEMS Microbiology Letters* 176: 301-309. doi.org/10.1111/j.1574-6968.1999.tb13676.x.
- Teixeira, K.R.S., **T. Morgan**, D. Meletzus, R. Galler, J.I. Baldani, and C. Kennedy (1999) Identification, sequencing and structural analysis of a nifA-like gene of *Acetobacter diazotrophicus*. *An Acad Bras Cienc* 71: 521-30.
- Teixeira K.R.S., **T. Morgan**, D. Meletzus, R. Galler, J.I. Baldani, and C. Kennedy (1998) *Acetobacter diazotrophicus*: nifA-Like Gene and Characterization of a nif-Like Promoter. In: Elmerich C., Kondorosi A., Newton W.E. (eds) *Biological Nitrogen Fixation for the 21st Century*. Current Plant Science and Biotechnology in Agriculture, vol 31. Springer, Dordrecht.
- Meletzus, D., K. Teixeira, O. Perlova, R. Nawroth, E. Zellermann, **T. Morgan**, I. V. Baldani, and C. Kennedy (1998) Characterization of Genes Involved in Regulation of Nitrogen Fixation and Ammonium Sensing in *Acetobacter diazotrophicus*, an Endophyte of Sugarcane. In: Elmerich C., Kondorosi A., Newton W.E. (eds) *Biological Nitrogen Fixation for the 21st Century*. Current Plant Science and Biotechnology in Agriculture, vol 31. Springer, Dordrecht.

GRANTS:

Current Support

External:

None currently

Previous Support

External (Total \$1,965,266):

- 2015 - 2018 NSF DBI. Title: REU Site: Ecology and Evolutionary Biology of Changing Environments: Integrating from genomes to biomes. PI: M. Tobler* and J. Nippert. (\$312,001).
* This grant was transferred to my colleague M. Tobler in August 2017, because I moved to become a rotating program officer position in the NSF and thus could not remain as the PI of an NSF award during this time. However, the proposal was almost entirely executed under my leadership, thus I list it as previous support.
- 2015 NSF DBI. Title: REU-Supplement, REU Site: Undergraduate Research in the Ecology and Evolution of Changing Environments: Mechanisms to Responses. PI: B. Snyder and **T.J. Morgan**. PI: **T.J. Morgan** (\$9,203).
- 2012 - 2016 NSF DBI. Title: REU Site: Undergraduate Research in the Ecology and Evolution of Changing Environments: Mechanisms to Responses. PI: B. Snyder and **T.J. Morgan**. (\$287,662; NSF-DBI-115657 - with one year no cost extension).
- 2012 NSF IOS Physiological and structural systems cluster OEI panel. Title: REU-Supplement, LIT: Collaborative research: Integrating physiological and genetic mechanisms to understand the evolution of cold tolerance. PI: **T.J. Morgan** (\$6,000).
- 2011 - 2015 NSF IOS Physiological and structural systems cluster OEI panel. Title: LIT: Collaborative research: Integrating physiological and genetic mechanisms to understand the evolution of cold tolerance. PI: **T.J. Morgan**, co-PIs: D. Hahn (UFL), A.S. Edison (UFL), and D.B. Alison (U AL Birmingham). [\$820,000; NSF-IOS-1051770 - with one year no cost extension].
- 2012 - 2013 NSF IOS Physiological and structural systems cluster OEI Panel. Title: Meeting: A Decade of Ecological Genomics: The 10th Annual Ecological Genomics Symposium. PI: **T.J. Morgan** (\$14,290; NSF-IOS-1244871).
- 2008 - 2013 USDA Plant Abiotic Stress Panel. Title: Ecotypic variation and functional genetic response

- of an ecologically dominant grass under natural and reduced precipitation: Genes to ecosystem Response. PIs LC Johnson, K. Harmoney, E. Akhunov, **T.J. Morgan**, & K. Garrett (\$349,400; USDA-2008-01154 - with one year no cost extension).
- 2010 - 2011 NSF IOS Physiological and structural systems cluster OEI Panel. Title: Symposium: The Ecological Genomics Symposium, Kansas State University, November 13 - 15, 2009, Kansas City, Missouri. PI: **T.J. Morgan**, M.A. Herman, & L.C. Johnson (\$23,470; NSF-IOS-0940912).
- 2002 - 2005 National Institutes of Health, Individual, National Research Service Award Postdoctoral Fellowship (F32): Title: QTL for temperature stress resistance in *Drosophila*. (F32-GM-066603; Sponsor: Dr. Trudy F. C. Mackay, North Carolina State University; 3 years of salary and stipend support ~\$135,000) to **T.J. Morgan**
- 2001 - 2003 NSF, Doctoral Dissertation Improvement Grant: Title: The effect of artificial selection on the evolution of ontogenetic trajectories. PIs Patrick A. Carter and **T.J. Morgan**; NSF-DEB-0105079; \$5,640)
- 2001 Gordon Research Conference on Quantitative Genetics and Genomics Fellowship to **T.J. Morgan** (\$1,400).
- 2000 Summer Institute in Statistical Genetics Fellowship, North Carolina State University to **T.J. Morgan** (\$1,200).

Internal (\$408,749 + \$25,000 declined):

- 2015 KSU Big 12 Faculty Fellowship to visit the Department of Ecology and Evolutionary Biology at the University of Kansas (\$2,246).
- 2013 K-INBRE Postdoctoral Award to Dr. Suegene Noh (Morgan Lab Postdoc) declined because Dr. Noh secured a new research position (\$25,000)
- 2012 KSU BRIEF Registration Award for Dr. Suegene Noh (Morgan Lab Postdoc) to attend the 24th International Entomology Congress in Daegu, Korea (\$600) to **T.J. Morgan**.
- 2009 - 2011 KSU Targeted Excellence: Arthropod Genomics Center Seed Grant Program. Title: A Quantitative genomic approach to QTL mapping. PI: **T.J. Morgan** (\$92,398).
- 2009 - 2011 Biology Research Career Development Award (RCDA) Program for the proposal entitled Collaborative research: Integrating physiological and genetic mechanisms to understand the evolution of cold tolerance. PI: **T.J. Morgan** (\$40,000).
- 2008 - 2010 KSU Targeted Excellence: Ecological Genomics Institute Seed Grant Program. Title: Characterizing phenotypic and functional genetic variation of the dominant prairie grass *Andropogon gerardii* across the sharp precipitation gradient of the Great Plains: test for local adaptation. PI: L.C. Johnson, P. St. Amand, K. Garrett, E. Arkhunov, **T.J. Morgan** (\$74,960).
- 2008 - 2010 KSU Targeted Excellence: Ecological Genomics Institute Bulk Fragment Analysis Grant. Title: Characterizing phenotypic and functional genetic variation of the dominant prairie grass *Andropogon gerardii* across the sharp precipitation gradient of the Great Plains: test for local adaptation. PI: L.C. Johnson, P. St. Amand, K. Garrett, E. Ahkunov, **T.J. Morgan** (\$5,000).
- 2007 - 2009 KSU Targeted Excellence: Ecological Genomics Institute Seed Grant Program. Title: Association mapping of cold-tolerance genes in *Drosophila*. PI: **T.J. Morgan** (\$44,560).
- 2007 - 2008 KSU Targeted Excellence: Ecological Genomics Institute Postdoctoral fellowship award to Michael Westphal under the mentorship of **T.J. Morgan** and S.M. Wisely. Title: An ecological genomic approach to the adaptive evolution of melanism in garter snakes (\$100,000).
- 2007 KSU Targeted Excellence Ecological Genomics Institute/BRIEF Program/Faculty

- Development Travel Award for ESF sponsored workshop on “Ecological Genetics: Understanding the Functional Consequences of Natural Variation in Adaptation” in Vienna, Austria (\$2,050) to **T.J. Morgan**.
- 2007 Internal KSU Targeted Excellence Arthropod Genomics Center/BRIEF Program Travel Award for the SSE sponsored symposium “The Ecological Genomics of Model Eukaryotes” (\$2,535) to **T.J. Morgan**.
- 2005 - 2006 University of North Carolina System Genomics Postdoctoral fellowship (1-year salary ~ \$43,000) to **T.J. Morgan**
- 2001 Guy Brislawn Fellowship, Washington State University, School of Biological Sciences to **T.J. Morgan** (\$500).
- 2001 Graduate Student Travel Award, American Society of Naturalists (\$400).
- 2001 Graduate and Professional Student Association, Registration Grant, Washington State University (\$300).
- 1999 College of Sciences Minigrant, Washington State University (\$200).

PRESENTATIONS, MEETINGS, AND WORKSHOPS:

Invited Seminars and Symposia (Symposia Talks are in Italics):

- 2018 The EDGE Program, Interagency meeting on Animal Genomics, National Human Genome Research Institute (NHGRI), Bethesda, MD.
- 2017 Facilitated Discussion on Diversity in STEM field (with Assistant Dean of Diversity, Recruitment, and Retention Kimathi Choma), K-INBRE month meeting, Manhattan, KS.
- 2016 Division of Integrative Organismal System, Directorate for Biological Sciences, National Science Foundation, Arlington, VA.
- 2015 Department of Biology, University of Rochester, Rochester, NY.
- 2015 Department of Biology, University of Oklahoma, Norman, OK.
- 2015 Keynote speaker. Annual Meeting of the Kansas Association of Biology Teachers, Manhattan, KS.
- 2014 Department of Mathematics and Biology, Truman State University, Kirksville, MO.
- 2014 Department of Entomology, Kansas State University, Manhattan, KS.
- 2012 Departments of Botany and Zoology, Oklahoma State University, Stillwater, OK.
- 2012 Department of Biological Sciences. University of Cincinnati, OH.
- 2011 Division of Biology, Kansas State University, Manhattan, KS.
- 2011 Institute of Population Genetics, University of Veterinary Medicine Vienna. Wien Austria.
- 2011 Department of Biology, Truman State University, Kirksville, MO.
- 2011 Department of Biology, Eastern Washington University, Cheney, WA.
- 2011 Department of Biology, University of Idaho, Moscow, ID.
- 2011 Department of Entomology and Nematology, University of Florida, Gainesville, FL.
- 2010 North Carolina State University, Keck Center for Behavioral Biology, Alumni Reunion Symposium. Raleigh, NC.
- 2010 Department of Zoology. Miami University, Oxford, OH.
- 2010 Department of Biological Sciences. University of Cincinnati, OH.
- 2009 Ecology and Evolutionary Biology Seminar. University of Nebraska, Lincoln, NE.
- 2009 Keynote speaker. 85th Annual Meeting of the Kansas (Central States) Entomological Society.
- 2009 Department of Biology, Black Hills State University, Spearfish, SD.
- 2008 Department of Biological Sciences, Purdue University, West Lafayette, IN.
- 2008 Ecology and Evolutionary Biology Seminar, Purdue University, West Lafayette, IN.
- 2007 European Science Foundation Workshop on Ecological Genetics: Understanding the Functional Consequences of Natural Variation in Adaptation. Vienna, Austria.
- 2007 Ecology and Evolution Seminar. Kansas State University, Manhattan, KS.

- 2007 Gordon Conference on Evolutionary and Ecological Functional Genomics. Salve Regina University. New Port, RI.
- 2007 Ecological Genomics of Model Eukaryotes (SSE Sponsored Symposium) Annual Meeting: The Society for the Study of Evolution, Christchurch, New Zealand.
- 2007 Department of Biology, Portland State University, Portland, OR.
- 2007 Department of Entomology, Kansas State University, Manhattan, KS.
- 2007 Department of Biology, University of South Dakota, Vermillion, SD.
- 2006 Office of Research and Development, Research Infrastructure for Minority Institutions (RIMI) Seminar Series Alabama State University. Montgomery, AL.
- 2006 The 4th Annual Ecological Genomics Symposium. Overland Park, KS.
- 2006 Department of Ecology and Evolutionary Biology, University of Kansas. Lawrence, KS
- 2006 Department of Genetics, North Carolina State University. Raleigh, NC.
- 2005 Division of Biology, Kansas State University. Manhattan, KS.
- 2005 Department of Animal Sciences, University of Maryland. College Park, MD.
- 2005 Department of Biological Sciences, Mississippi State University. Starkville, MS.
- 2004 Department of Biology, University of North Carolina. Chapel Hill, NC.
- 2004 Department of Biological Sciences, California State University. Sacramento, CA.
- 2002 School of Biological Sciences, Washington State University. Pullman, WA.
- 2001 Gordon Conference on Quantitative Genetics and Genomics. Ventura, CA.

Contributed Presentations by my lab group:

- 2018 **Morgan, T.J.** Stress, Aging, and Death (in flies). Kansas State University Ecological Genomics Summer Research Forum. Manhattan, KS.
- 2018 Westphal, M.F. and **T.J. Morgan**. When gartersnakes go dark: pigment knockouts and the unfulfilled promise of *xanthine dehydrogenase*. Joint Meeting of Ichthyologists and Herpetologists, Rochester, NY.
- 2018 Everman, E.R. and **T.J. Morgan**. Evolution of age-specific decline in stress phenotypes is driven by both antagonistic pleiotropy and mutation accumulation. Population, Evolutionary and Quantitative Genetics Conference, Madison, WI.
- 2018 Freda, P.J., **T.J. Morgan**, and G. Ragland. Identifying mechanisms of cold hardiness across metamorphosis in *Drosophila melanogaster*. Annual Drosophila Research Conference, Philadelphia, PA.
- 2017 Freda, P.J., **T.J. Morgan**, and G. Ragland. Identifying mechanisms of cold hardiness across metamorphosis in *Drosophila melanogaster*. International Symposium of the Environmental Physiology of Ectotherms and Plants (ISEPEP7), Tartu, Estonia.
- 2017 Gleason, J., P. Roy, E. Everman, T. Gleason, and **T. Morgan**. Phenology of *Drosophila* species across a temperate growing season. Annual Meeting of the Society for the Study of Evolution, Portland, OR.
- 2017 Everman, E.R. The evolution and genetic control of stress tolerance: How age, season, and behavior shape fitness in *Drosophila*. The Department of Molecular Biosciences, University of Kansas, Lawrence, KS.
- 2017 Everman, E.R. The evolution and genetic control of stress tolerance: How age, season, and behavior shape fitness in *Drosophila*. The Department of Biological Sciences, University of Arkansas, Fayetteville, AR.
- 2017 Everman, E.R. The evolution and genetic control of stress tolerance: How age, season, and behavior shape fitness in *Drosophila*. The Division of Biology, Kansas State University, Manhattan, KS.
- 2016 Everman, E.R., J. Delzeit, and **T.J. Morgan**. Dynamic shifts in the genetic architecture with age and

- across traits: Implications for evolutionary theories of aging. 14th Annual Ecological Genomics Symposium, Kansas City, MO.
- 2016 Everman, E.R. and **T.J. Morgan**. Age-related stress and fitness responses: Implications for evolutionary theories of aging. Molecular Cellular Developmental Biology Research Forum, Kansas State University, Manhattan, KS.
- 2016 Hahn, D.A., A. R. Gerken, and **T.J. Morgan**. Constraints, independence, and evolution of thermal plasticity: Probing genetic architecture of long and short-term thermal plasticity. XXV International Congress of Entomology, Orlando, FL.
- 2016 Williams, C.M, **T.J. Morgan**, D. Allison, and D.A. Hahn. Energetic and life history consequences of cold adaptation in *Drosophila melanogaster*. XXV International Congress of Entomology, Orlando, FL.
- 2016 Everman, E.R., J.M. Gleason, F.K. Hunter, and **T.J. Morgan**. The effect of cold exposure on mating behavior in resistant and resilient *Drosophila melanogaster* genotypes. Annual Conference of the Animal Behavior Society. Columbia, MO.
- 2016 Everman, E.R. and **T.J. Morgan**. Age-related stress and fitness responses: Implications for evolutionary theories of aging. Annual Meeting of the Society for the Study of Evolution, Austin, TX.
- 2016 Freda, P.J, **T.J. Morgan**, and G.J. Ragland. Evolution of complex life cycles: Is performance constrained across metamorphosis? Society for Integrative and Comparative Biology, Portland, OR.
- 2016 Williams, C.M, A. Szejner, **T.J. Morgan**, N.E. Sunny, M.D. McCue, and D.A. Hahn. Extreme low temperatures remodel metabolic physiology and life history in *Drosophila melanogaster*. Symposium talk in "Beyond the mean: Biological Impacts of Changing Patterns of Temperature Variation" Society for Integrative and Comparative Biology, Portland, OR.
- 2015 Everman, E.R. and **T.J. Morgan**. Age-related change in cold stress tolerance in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Manhattan, KS.
- 2015 Freda, P.J, **T.J. Morgan**, and G.J. Ragland. Evolution of complex life cycles: Is performance constrained across metamorphosis? Annual Ecological Genomics Symposium, Manhattan, KS.
- 2015 Galliard, M., P. St. Amand, J. Pollard, N. Bello, S. Sabates, **T.J. Morgan**, M. Knapp, S. Baer, D. Gibson, B. Maricle, and L. Johnson. Adaptive ecotypic variation and genetic divergence of a widespread Grass *Andropogon gerardii* across a Great Plains' climate gradient. Annual Ecological Genomics Symposium, Manhattan, KS.
- 2015 Everman, E.R., F.K. Hunter, and **T.J. Morgan**. The genetic basis of age-related change in stress tolerance and fitness in *Drosophila melanogaster*. Arthropod Genomics Symposium, Manhattan, KS.
- 2015 **T.J. Morgan**. Value added impacts to broader impacts by the EIDRoP Program at K-State. KSU GK-12 Showcase event, Manhattan, KS.
- 2014 Everman, E.R. and **T.J. Morgan**. Age-related change in cold stress tolerance in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2014 Egge, A.R., S. Noh, O.C. Eller, D.A. Hahn, and **T.J. Morgan**. Constraints, independence, and evolution of thermal plasticity: probing genetic architecture of long and short-term thermal acclimation. KSU GK-12 Capstone event, Manhattan, KS.
- 2014 Egge, A.R., Eller, O.C., and **T.J. Morgan**. Genotype-by-environment interactions of demographic values in fluctuating thermal environments using *Drosophila melanogaster*. Annual *Drosophila* Research Conference, San Diego, CA.
- 2014 Eller, O.C., A.R. Egge, and **T.J. Morgan**. The effect of cooling rate on the rapid cold hardening response of *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, Austin, TX.

- 2014 Egge, A.R., Eller, O.C., and **T.J. Morgan**. Genotype-by-environment interactions of demographic values in fluctuating thermal environments using *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, Austin, TX.
- 2014 Everman, E.R. and **T.J. Morgan**. Age-related change in cold stress tolerance in *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, Austin, TX.
- 2014 Williams, C.M., N. Sunny, A.S. Edison, **T.J. Morgan**, and D.A. Hahn. Nutrient flux through glycolysis and gluconeogenesis and the evolution of cold-stress tolerance in *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, Austin, TX.
- 2013 Eller, O.C., A.R. Egge, and **T.J. Morgan**. The effect of cooling rate on the rapid cold hardening response of *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2013 Egge, A.R., D.A. Hahn, and **T.J. Morgan**. The genetics of short-term and long-term cold acclimation in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2013 Everman, E.R. and **T.J. Morgan**. Age-related change in cold stress tolerance in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2013 Egge, A.R., D.A. Hahn, and **T.J. Morgan**. Trade-offs or cross-tolerance: Evolvability of cold tolerance and plasticity in *Drosophila melanogaster*. Annual Meeting of the Society for the Study of Evolution, Snowbird, Utah.
- 2013 Johnson, L.C., S. Baer, B. Maricle, M. Gray, H. Tetreault, N. Bello, Nora, S. Brown, **T.J. Morgan**, J. Shelton, and S. Chellapilla. Genetic Differentiation, Transcriptome Variation, and Local Adaptation of an Ecologically Dominant Prairie Grass *Andropogon gerardii* (Big Bluestem) Occurring Along the Climate Gradient in Midwest Climate Gradient. Annual Meeting of the Society for the Study of Evolution, Snowbird, Utah.
- 2013 Egge, A.R., D.A. Hahn, and **T.J. Morgan**. Genetics of short-term and long-term acclimation in *Drosophila melanogaster*. International Symposium on the Environmental Physiology of Ectotherms and Plants, London, Ontario, Canada.
- 2013 Williams, C.M., M. Watanabe, M.R. Guarracino, A.S. Edison, **T.J. Morgan**, A. Boroujerdi, and D.A. Hahn. Maintenance of metabolic networks during cold stress in cold-adapted *Drosophila melanogaster*. International Symposium on the Environmental Physiology of Ectotherms and Plants, London, Ontario, Canada.
- 2013 Castellanos, L., R. Silverber, **T.J. Morgan**, C.M. Williams, and D.A. Hahn. Evolution of energy metabolism in cold-adapted *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, San Francisco, CA.
- 2013 Egge, A.R., S. Noh, O.C. Eller, D.A. Hahn, and **T.J. Morgan**. Physiological and Genomic Variation in Rapid Cold Hardening and Developmental Acclimation in *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, San Francisco, CA.
- 2013 Noh, S., D.A. Hahn, and **T.J. Morgan**. The genetics of cold tolerance in fruit flies dissected using bulk segregant analysis of artificial selection lines. Annual meeting of the Society for Integrative and Comparative Biology, San Francisco, CA.
- 2013 Williams, C.M., M. Watanabe, **T.J. Morgan**, A.S. Edison, A. Boroujerdi, and D.A. Hahn. Selection for cold tolerance alters the maintenance of metabolic homeostasis during cold exposure in *Drosophila melanogaster*. Annual meeting of the Society for Integrative and Comparative Biology, San Francisco, CA.
- 2012 Crawford, P.J., C. Berger, A. Bradley, S. Noh, and **T.J. Morgan**. The Genetic Basis of Variation in Thermal Plasticity in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2012 Egge, A.R., S. Noh, O. Eller, D.A. Hahn and **T.J. Morgan**. Physiological and Genomic Variation in Rapid Cold Hardening and Developmental Acclimation in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.

- 2012 Gray, M.M., S. Chellapilla, A. Akhunova, H. Liang, H. Tetreault, **T.J. Morgan**, E.D. Akhunov and L.C. Johnson. Transcriptional differences of mesic and xeric ecotypes of a dominant tallgrass *Andropogon gerardii* to abiotic stress when growing at the margins of the range: Linking ecology to the transcriptome. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2012 Noh, S., D.A. Hahn, and **T.J. Morgan**. Genetics of cold tolerance in fruit flies dissected with bulk segregant analysis of artificial selection lines. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2011 Crawford, P.J., K.L. Schuler, J.E. Garcia, P.S. Schmidt and **T.J. Morgan**. An Allele Frequency Cline in Cold Tolerance Associated Alleles in *Drosophila*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2011 Egge, A.R., R. Sullivan, C. Berger, and **T.J. Morgan**. Variation in lifetime fitness among thermal genotypes: effects of selection and thermal environment. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2011 Schuler, K.L., L.C. Fallis, and **T.J. Morgan**. The characterization of thermotolerance genes in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2011 Tetreault, H., M. Gray, C. Rodewald, M. Mendola, R. Goad, J. Olsen, E. McCrea, L. Wheeler, N. Bello, T. Morgan, M. Knapp, P. St. Amand, E. Akhunov, K. Garrett¹, G. Bai, S. Baer, B. Maricle, L. Johnson. Evidence for Local Adaptation and Genetic Differentiation of *Andropogon gerardii* (big bluestem) Ecotypes Occurring along a Precipitation Gradient. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2011 Tetreault, H., C. Rodewald, S. Baer, B. Maricle, **T.J. Morgan**, R. Goad, J. Olsen and L. Johnson. Local Drought Adaptation of the Ecologically Dominant Prairie Grass Big Bluestem *Andropogon gerardii*: Contribution of Genotype and Environment to Phenotypic Variation. Annual Meeting of the Ecological Society of America, Austin, Texas.
- 2011 Tetreault H., M. Gray, C. Rodewald, M. Mendola, R. Goad, J. Olsen, E. McCrea, L. Wheeler, N. Bello, **T.J. Morgan**, M. Knapp, P. St. Amand, E. Akhunov, K. Garrett, G. Bai, S. Baer, B. Maricle, and L. Johnson. Phenotypic variation and population differentiation of *Andropogon gerardii* along the Great Plains precipitation gradient. Gordon Conference on Evolutionary and Ecological Genomics, University of New England, Biddeford, Maine.
- 2011 Fallis, L.C. and **T.J. Morgan**. The genetics of thermotolerance phenotypes in *Drosophila melanogaster*. Annual Ecological Genomics Research Forum, Kansas State University, Manhattan, KS.
- 2011 Egge, A.R. and **T.J. Morgan**. Exploring phenotypic correlations to cold tolerance among artificially selected lines. Annual Ecological Genomics Research Forum, Kansas State University, Manhattan, KS.
- 2011 Crawford, P.J. and **T.J. Morgan**. Genetic variation in thermal plasticity in *Drosophila melanogaster*. Annual Ecological Genomics Research Forum, Kansas State University, Manhattan, KS.
- 2011 Tetreault, H. Gray, M., C. Rodewald, P. St. Amand, G. Bai, E. Akhunov, K. Garrett, S. Baer, B. Maricle, **T.J. Morgan**, N. Bello, R. Goad, J. Olsen, and L. Johnson. Phenotypic variation and genetic differentiation of a dominant prairie grass along a longitudinal precipitation gradient. Annual Meeting of the Society for the Study of Evolution, Norman, Oklahoma.
- 2011 Fallis, L.C., K.J. Clowers, K.L. Schuler, and **T.J. Morgan**. The Genetic Basis of Thermotolerance Phenotypes in *Drosophila melanogaster*. Annual Meeting of the Society for the Study of Evolution, Norman, Oklahoma. 17-21 June 2011
- 2010 Fallis, L.C., J.J. Fanara and **T.J. Morgan**. Geographic variation in thermal plasticity among *Drosophila melanogaster* populations. Annual Ecological Genomics Symposium, Kansas City, MO.

- 2010 Fallis, L.C., K.J. Clowers, K.L. Schuler, and **T.J. Morgan**. The genetic basis of thermotolerance phenotypes in *Drosophila melanogaster*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2010 Kawakami, T., **T.J. Morgan**, J.B Nippert, T.W. Ocheltree, R. Keith, P. Dhakal, and M.C. Ungerer. Natural selection drives clinal life history patterns in *Helianthus maximiliani*. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2010 Gray, M., H. Tetreault, C. Rodewald, S. Baer, B. Maricle, P. St. Amand, E. Akhunov, **T.J. Morgan**, R. Goad, J. Olsen, and L. Johnson. Local drought adaptation of the ecologically dominant prairie grass big bluestem: Contribution of genotype x environment and genotypic diversity to phenotypic variation. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2010 Garcia, J. and **T.J. Morgan**. The genetics of cold tolerance among populations of *Drosophila melanogaster*. Annual McNair Heartland Research Conference. Kansas City, MO.
- 2010 Garcia, J. and **T.J. Morgan**. The genetics of cold tolerance among populations of *Drosophila melanogaster*. Annual California McNair Scholars Symposium. Berkeley, CA.
- 2010 Fallis, L.F., K.J. Clowers, and **T.J. Morgan**. The genetics of thermotolerance phenotypes in *Drosophila melanogaster*. Annual Meeting of the Society for the Study of Evolution, Portland, OR.
- 2010 Westphal, M.F., S.R. Morey, J.C. Uyeda, and **T.J. Morgan**. Evidence for parallel divergent evolution of pigmentation within the two sister clades comprising the surfperch subfamily Amphistichinae. Annual Meeting of the Society for the Study of Evolution, Portland, OR.
- 2010 **Morgan, T.J.** The evolutionary genomics of temperature stress phenotypes in *Drosophila*. Annual Ecological Genomics Research Forum, Kansas State University, Manhattan, KS.
- 2010 L.C. Fallis and **T.J. Morgan**. The genetics and evolution of thermotolerance phenotypes in *Drosophila melanogaster*. Molecular Cellular Developmental Biology Research Forum, Kansas State University, Manhattan, KS.
- 2010 Fallis, L.F., J.J. Fanara, and **T.J. Morgan**. Geographic variation in thermal plasticity among *Drosophila melanogaster* populations. Division of Biology Graduate Research Forum, Kansas State University, Manhattan KS. (H. Henley Haymaker Award for Best Presentation)
- 2009 Fallis, L.C., J.J. Fanara, and **T.J. Morgan**. The genetics and evolution of thermotolerance phenotypes within and among populations in nature. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2009 Clowers, K.J. and **T.J. Morgan**. The genetics of cold Tolerance in *Drosophila melanogaster*. Smp-30 influences phenotypic variation in cold tolerance. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2009 Nielsen, M., and **T.J. Morgan**. The genetics and evolution of cold tolerance within the *Drosophila* genus. KSU Research Experience for Undergraduates summer symposium. Manhattan, KS.
- 2009 Clowers, K.J. and **T.J. Morgan**. The genetics of cold Tolerance in *Drosophila melanogaster*: Smp-30 Influences phenotypic variation in cold Tolerance. Annual Meeting of the Society for the Study of Evolution, Moscow, ID.
- 2009 Fallis, L.F., J.J. Fanara, and **T.J. Morgan**. Geographic variation in thermal plasticity among *Drosophila melanogaster* populations. Annual Meeting of the Society for the Study of Evolution, Moscow, ID.
- 2009 **Morgan, T.J.** and K.J. Clowers. The genetics and evolution of cold tolerance in *Drosophila*. Annual Meeting of the Society for the Study of Evolution, Moscow, ID.
- 2009 **Morgan, T.J.** Association mapping of cold tolerance genes in *Drosophila*. Annual Ecological Genomics Research Forum, Kansas State University, Manhattan, KS.
- 2009 L.C. Fallis and **T.J. Morgan**. The genetic basis of thermotolerance phenotypes in *Drosophila melanogaster*. Molecular Cellular Developmental Biology Research Forum, Kansas State University, Manhattan, KS.

- 2009 Fallis, L.C., K.J. Clowers and **T.J. Morgan**. The Genetics of Thermotolerance in *Drosophila*. 85th Annual Meeting of the Kansas (Central States) Entomological Society. (President's award for best poster).
- 2009 Clowers, K.J. and **T.J. Morgan**. The genetics of cold tolerance in *Drosophila melanogaster*. Smp-30 influences phenotypic variation in cold tolerance. Midwest Ecology and Evolution Conference. Lincoln, NE. (Won best undergraduate oral presentation)
- 2009 Fallis, L.C., K.J. Clowers, and **T.J. Morgan**. The genetic basis of thermotolerance phenotypes in *Drosophila*: A high resolution complementation mapping approach. Midwest Ecology and Evolution Conference. Lincoln, NE.
- 2009 Clowers, K.J. and **T.J. Morgan**. The genetics of cold tolerance in *Drosophila melanogaster*. Smp-30 influences phenotypic variation in cold tolerance. Molecular Cellular Developmental Biology Research Forum, Kansas State University, Manhattan, KS.
- 2009 **Morgan, T.J.** and J. Stegmann. A genomic approach to the genetic dissection of complex traits via rapid QTL mapping. Annual KINBRE Symposium, Manhattan, KS.
- 2008 Johnson, L.C., B. Bengtson, K. Zimmerman, J. Smith, N. Spaht, **T.J. Morgan**, E. Ahkunov, K. Garrett, and S.G. Baer. Ecotypic variation of *Andropogon gerardii* across a precipitation gradient in midwest grasslands. Annual Ecological Genomics Symposium. Kansas City, MO.
- 2008 Fallis, L.C., J.J. Fanara and **T.J. Morgan**. Phenotypic variation in thermotolerance phenotypes among populations in nature. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2008 Clowers, K.J. and **T.J. Morgan**. The genetics of cold tolerance in *Drosophila melanogaster*. Smp-30 influences phenotypic variation in cold tolerance. Annual Ecological Genomics Symposium, Kansas City, MO.
- 2008 Westphal, M.F., Morey, S.R. and **T.J. Morgan**. A mtDNA phylogeny of the subfamily Amphistichinae sheds light on anal fin color polymorphism in the silver surfperch, *Hyperprosopon ellipticum*. The Joint Meeting of Ichthyologists and Herpetologists. Montreal, CA.
- 2008 Westphal, M.F. and **T.J. Morgan**. The genetics of variation in pigmentation phenotypes in garter snakes. The Society for the Study of Evolution, Minneapolis, MN.
- 2008 Clowers, K.J. and **T.J. Morgan**. The genetics of cold tolerance in *Drosophila melanogaster*. Smp-30 influences phenotypic variation in cold tolerance. Annual McNair Heartland Research Conference. Kansas City, MO.
- 2008 Clowers, K.J. and **T.J. Morgan**. The genetics of cold tolerance in *Drosophila melanogaster*. Smp-30 influences phenotypic variation in cold tolerance. Annual University of Maryland McNair Scholars and Undergrad Research National Conference. College Park, MD.
- 2007 Wang, P., R.F. Lyman, S. Shabalina, **T.J. Morgan**, T.F.C. Mackay, and R.R.H. Anholt. Associations of SNPs in odorant binding protein genes with olfactory behavior in *Drosophila melanogaster*. Annual *Drosophila* Meeting, Philadelphia, PA.
- 2006 Edwards, A.C., **T.J. Morgan**, S.M. Rollmann, and T.F.C. Mackay. Genomic response to artificial selection on aggressive behavior in *Drosophila melanogaster*. Gordon Conference on Genes and Behavior. Ventura, CA.
- 2005 **Morgan, T.J.** and T.F.C. Mackay. The genetic architecture of thermotolerance in *Drosophila*. Annual Ecological Genomics Symposium, Overland Park, KS.
- 2005 **Morgan, T.J.**, L.H. Duncan, M.U. Naseer, E.D. Özsoy, and T.F.C. Mackay. The genetics of thermotolerance in *Drosophila*. The Society for the Study of Evolution, Fairbanks, AK.
- 2005 **Morgan, T.J.**, M.A. Evans, T. Garland Jr., J.G. Swallow, and P.A. Carter. Molecular and quantitative genetic divergence among populations of house mice with known evolutionary histories. The Society for the Study of Evolution, Fairbanks, AK.
- 2005 **Morgan, T.J.**, L.H. Duncan, E.D. Özsoy and T.F.C. Mackay. The genetic architecture of thermotolerance. Annual *Drosophila* Meeting, San Diego, CA.

- 2004 **Morgan, T.J.** and T.F.C. Mackay. The genetic architecture of cold tolerance. Annual Drosophila Meeting, Washington D.C.
- 2003 **Morgan, T.J.**, T. Garland, Jr., and P.A. Carter. Ontogenies in mice selected for high voluntary wheel-running activity. Annual Meeting of The Society for the Study of Evolution, Chico, CA.
- 2003 **Morgan, T.J.** Behavioral selection and the evolution of ontogenies. W. M. Keck Center for Behavioral Biology, Postdoc and Graduate Student Symposium, North Carolina State University, Raleigh, NC.
- 2002 Bronikowski, A.M., **T.J. Morgan**, T. Garland Jr., and P.A. Carter. Evolution of senescence in mice genetically selected for high voluntary wheel running. Annual Meeting of The Society for the Study of Evolution, Champaign, IL.
- 2001 **Morgan, T.J.**, T. Garland, Jr., and P.A. Carter. Function-valued trait analysis of a behavioral ontogenetic trajectory. Annual Meeting of The Society for the Study of Evolution, Knoxville, TN.
- 2001 Bronikowski, A.M., **T.J. Morgan**, and T. Garland Jr., and P.A. Carter. Aging and anti-oxidant expression in mice selectively bred for increased voluntary exercise. Annual Meeting of The American Aging Association, Madison, WI.
- 2001 **Morgan, T.J.** Molecules vs. phenotypes: What each can tell us about evolution in subdivided populations? Eco-Evo Lunch, Washington State University, Pullman, WA.
- 2000 Bronikowski, A.M., **T.J. Morgan**, T. Garland Jr., and P.A. Carter. The evolution of aging: Molecular analyses of aging in mice bred for increased voluntary exercise. The Genetic Effects on Aging Conference, Madison, WI.
- 2000 Bronikowski, A.M., **T.J. Morgan**, T. Garland Jr., and P.A. Carter. The evolution of aging: Molecular analyses of aging in mice bred for increased voluntary exercise. Annual Meeting of The Society for the Study of Evolution, Bloomington, IN.
- 2000 Byrne, K.M., K. Watanabe, S. Blank, **T.J. Morgan**, and M.V. Dodson. Immunobiology of equine muscle healing. Conference on Equine Sports Medicine and Science of the Elite Show Jumping Horse. Sicily, Italy.
- 1999 Carter, P.A., J.S. Swallow, **T.J. Morgan**, and T. Garland Jr. Changing effects of early-age selection during post-natal ontogeny. Annual Meeting of The Society for the Study of Evolution, Madison, WI.

6. MENTORING EXPERIENCE

RECOGNITION FOR MENTORING

- 2017 University Distinguished Faculty Award for the Mentoring of Undergraduate Students in Research, Kansas State University, Office of the Provost.
- 2016 Biology Graduate Student Association Outstanding Graduate Faculty Award, Kansas State University, Division of Biology.
- 2009 Nomination for the University Distinguished Faculty Award for the Mentoring of Undergraduate Students in Research, Kansas State University, The Office of the Provost.

TRAINING RELATED TO MENTORING

- 2018 Merit Review Basics III and IV, National Science Foundation, Alexandria, VA.
- 2018 Program Management Seminar, National Science Foundation, Alexandria, VA.
- 2017 Merit Review Basics I and II, National Science Foundation, Alexandria, VA.
- 2017 Intercultural Developmental Inventory (IDI), Louis Stokes Alliances for Minority Participation, Kansas State University, Manhattan, KS.

POSTDOCTORAL MENTOR

Current:

2018 - Dr. Fan Qiu (Co-advised with Dr. Mark Ungerer).

Former:

2011 - 2013 Dr. Suegene Noh. Current Position: Assistant Professor, Colby College, Waterville, ME.

2007 - 2008 Dr. Michael F. Westphal (Co-advised with Dr. Samatha Wisely) - Supported by Ecological Genomics Postdoctoral Fellowship to MFW. Current Position: Ecologist for US the Bureau of Land Management.

2004 - 2005 Dr. Ergi Özsoy (Visiting Scientist; North Carolina State University). Current Position: Associate Professor of Biology, Hacettepe University, Ankara, Turkey.

GRADUATE MENTOR

Current:

none

Former:

2014 - 2018 Phillip Freda [co-advised PhD Student with Greg Ragland - UC Denver (formerly KSU Entomology)]. Thesis title: Phenotypic, genetic, and transcriptomic decoupling of thermal hardiness across metamorphosis in *Drosophila melanogaster*. Defense date 6 November 2018. Current Position: seeking postdoctoral position.

2012 - 2017 Elizabeth Everman (PhD) Thesis title: The evolution and genetic control is stress tolerance in a complex world. Defense date 13 April 2017. Current Position: Postdoctoral Fellow, Department of Molecular Biosciences, University of Kansas (Macdonald Lab).

2010 - 2014 Alison Gerken (née Egge) (PhD) Thesis title: Genomics and physiological evolution of cold tolerance in *Drosophila melanogaster*. Defense date 17 April 2014. Current Position: Postdoctoral Research Molecular Biologist with the USDA-ARS at the Center for Grain and Animal Health Research in Manhattan, Kansas.

2010 - 2013 Paul Crawford (MS) Thesis title: The genetics of thermal plasticity in *Drosophila*. Defense date 31 July 2013. Current Position: M.S. Student in Genetic Counseling.

2007 - 2012 Lindsey Perkin (née Fallis) (PhD) Thesis title: The genetic basis of heat and cold stress resistance in *Drosophila*. Defense date 19 April 2012. Current Position: Research Molecular Biologist with the USDA-ARS at the Center for Grain and Animal Health Research in Manhattan, Kansas.

UNDERGRADUATE RESEARCH MENTOR

Current:

none

Former:

Summer 2017 Zainaib Ali (NSF REU Student from The University of California)

Summer 2017 Henry Escobar (NSF REU Student from The University of Kansas)

2016 - 2017 Jennifer Delzeit (NSF REU Student from Kansas State University). Current Position: MS Student Kansas State University.

2015 - 2017 Jackson Alex

2015 - 2016 Mariah Brown

2015 - 2016 Nicholas Heter

Summer 2015 Nicholus Ledbetter (NSF REU Student from University of Central Arkansas). Current

2015 Position: PhD Student University of Tulsa.
Colin Bailey

Summer 2014 Frances 'Kate' Hunter (NSF REU Student from Iowa State University). Current Position: PhD Student University of Utah.

2012 - 2014 Olivia Eller (NSF URM Ecological Genomics and McNair Scholar). Current Position: PhD Student University of Kansas Medical Center.

2012 - 2013 Amanda Bradley. Current Position: Undergraduate research assistant in the Schrick lab at Kansas State University.

2011 - 2013 Christopher Berger (NSF REU Student from Kansas State University). Current Position: M.S. Student in the Division of Biology at Kansas State University

Summer 2011 Rebecca Sullivan (NSF REU Summer Student from University of Dallas, Dallas, TX). Current Position: unknown.

2009 - 2011 Jesus Garcia (McNair Scholar). Current Position: Medical student at University of Kansas Medical Center.

2009 - 2012 Kendra Schuler (NSF URM Ecological Genomics Scholar). Current Position: Genetic Counselor, Kansas City, Missouri.

2009 - 2010 Stephanie Major. Current Position: High School Biology Teacher.

Summer 2009 Matthew Nielsen (NSF REU Summer Student from Grinnell College, IA). Current Position: Ecology and Evolutionary Biology PhD Student and NSF GRF Awardee at the University of Arizona.

2007 - 2009 Katie Clowers (McNair Research Summer Scholar). Current Position: Genetics Postdoctoral Fellow. Harvard University.

2008 Joanna Bronkema (REU Summer Student from Earlham College, IN). Current Position: PhD Student in Biological Anthropology University of California San Diego.

2006 - 2008 Jennifer Stegman (HHMI & K-INBRE UG Research Scholar). Current Position: Nurse Salina, KS.

2005 - 2006 Steven West (North Carolina State Univ.). Current Position: Research Associate NCSU Department of Genetics.

2005 Mohammed Umaer Naseer (North Carolina State Univ.) Current Position: unknown.

GRADUATE COMMITTEE SERVICE

Current:

2017 - Elsie Shogren (PhD, Biology)

2016 - Bettina Jancke (PhD, Entomology)

2015 - Nick Barts (PhD, Biology)

2015 - Ryan Greenway (PhD, Biology)

2014 - Paula Roy (PhD, Ecol. & Evol. Biology, University of Kansas)

Former:

2016 - 2018 Henry Camarillo (MS, Biology)

2015 - 2016 Nathan Morse (MS, Biology) *withdrew because of medical issues

2014 - 2017 Christopher Berger (MS, Biology)

2014 - 2016 Courtney Passow (PhD, Biology)

2014 - 2016 Matthew Wilson (PhD, Horticulture) - outside chair

2009 - 2015 Ziyi Wang (PhD, Biology, Withdrew before completion)

2009 - 2014 Hong Geun Kim (PhD, Entomology)

2012 Erick Echegaray (PhD, Entomology) - outside chair

2012 - 2013 Martin Kapun (PhD, Vienna Graduate School of Population Genetics, Vienna, Austria) -

External Expert Reviewer for doctoral defense.
 2008 - 2013 Vinod Kurumathurmadam Mony (PhD, Biology)
 2008 - 2010 Emily Kraus (MS, Entomology, non-thesis)
 2008 Punya Nachappa (PhD, Entomology)
 2007 - 2010 Joshua Urban (MS, Entomology)
 2009 - 2010 Jason Nickell (PhD, Diagnostic Med & Pathobiology) - outside chair
 2006 - 2009 Ying Zhen (PhD, Biology)

7. TEACHING EXPERIENCE

TEACHING EXPERIENCE, ACTIVITIES

Current Teaching:

None - while on leave at NSF

Former Teaching:

At Kansas State University:

Population Biology (BIOL 640) - Fall 2007 - Fall 2012 and Fall 2017.
 Evolution (BIOL 520) - Spring 2016, Spring 2017.
 Evolutionary Genetics (BIOL 890) - Fall 2016.
 Evolutionary Ecology (BIOL 875) - Spring 2015.
 Genetic Analysis of Complex Traits (BIOL 890) - Fall 2014.
 Professional Skills in Biology (BIOL 863) - Spring 2013.
 Topics in Ecological Genomics (BIOL 890) - Fall 2007, Fall 2009, & Fall 2011.
 Principles of Biology (BIOL 198) - Fall 2006.

At Washington State University as a Graduate Student Teaching Assistant:

General Genetics (Biology 301) - Spring 2001 & 2002.
 Evolution (Biology 405) - Fall 2000 & 2001.
 Human Physiology (Zoology 251) - Spring 1999.
 Introductory Biology II (Biology 104) - Fall, Spring 1998, Fall 1999 & Spring 2002.
 Introductory Biology I (Biology 103) - Fall 1997

Teaching Service

2011 - 2017 Director and PI REU-Site on Undergraduate Research in the Ecology and Evolution of Changing Environments: Mechanisms to Responses (ksu.edu/reu)
 2015 - 2017 Co-organizer of the weekly evolutionary biology journal club (with Tobler)
 2011 - 2012 Co-organizer Ecology and Evolutionary Biology seminar (with Ungerer and Ferguson)
 2009 - 2010 Organizer of the weekly evolutionary biology journal club.
 2006 - 2009 Organizer of the weekly ecological genomics journal club.
 2007 The Ecological Genomics Institute Workshop "QTL analysis in non-model and model organisms" with Dr. Astrid Groot Max Plank Institute of Chemical Ecology. 1 day workshop at KSU, attendance ≈ 25.
 2000 - 2002 Student Advising and Learning Center Academic Advisor, School of Biological Sciences, Washington State University, Pullman. WA.

Guest Lectures and Panel Discussions

2017 Diversity, Identity, and Inclusion in Ecology and Evolutionary Biology (with Samantha Sharpe and LaVerne Bitsie-Balwin), REU Seminar, Manhattan, KS.
 2014 - 2017 NSF Graduate Research Fellowship Panel Discussion each Fall Semester (Office of the Vice

- President of Research and the Graduate School)
- 2012 Genomes (BIOL 705, Fall 2012).
- 2012 REU Programs and Undergraduate Research Opportunities at K-State and Beyond (BIOL 495, Fall 2012) – two sections.
- 2012 Participant in the Summer Undergraduate Research Opportunities Program Panel Discussion on Data Management (Summer 2012).
- 2012 Biology Content Talk to the NSF GK-12 Summer Institute (Summer 2012).
- 2011 The Evolution and Biogeography of *Drosophila* (GEOG 745, Fall 2011).
- 2011 Evolutionary Genomics and Communication in Science (NSF GK-12 Summer Institute Lunch Talk, Summer 2011)
- 2011 Ecological Genomics (General genetics at Truman State University, Spring 2011)
- 2009 QTL Mapping (ENTO 930, Spring 2009),
- 2009 - 2011 Evolutionary Genetics each Summer (REU/URM summer course)

Teaching Awards

- 2002 Teaching Assistant Excellence Award for Principles of Evolution, Washington State University, Graduate and Professional Student Association and the Graduate School.

Outreach Activities

- 2017 Science Saturday at Sunset Zoo with the 2017 KSU Biology REU cohort. A morning of table top activities focused on communicating basic science concepts to Sunset Zoo visitors. 150 people attended this event.
- 2012 - 2014 Fly boot camp. A one-week workshop for local high school teachers on basic fly rearing techniques, demonstration of simple experiments, and the construction of labs for the high school class room.

Other Teaching Activities

- 1995 - 1996 Mathematics - Science Tutor, APEX/MESA Program, U. of Arizona, Tucson.

8. SERVICE

COMMITTEE SERVICE

International:

- 2012 - 2013 External dissertation examiner for the Vienna Graduate School of Population Genetics, Vienna, Austria (Candidate: M. Kapun)

National:

At National Science Foundation:

- 2018 - Interagency committee on Animal Genomics.
- 2018 - Directorate for Biological Sciences, Rules of Life Working Group (The Group of 8) cofunding committee. Integrative Organismal Systems Representative.
- 2018 - Directorate for Biological Sciences, Division of Integrative Organismal Systems. Search Committee for Deputy Division Director. Member.
- 2017 - Directorate for Biological Sciences, Division of Integrative Organismal Systems. IOS blog working group. Member.
- 2017 - 2018 Directorate for Biological Sciences, Division of Integrative Organismal Systems. Search committee for two Program Directors for the Physiological Mechanisms and Biomechanics Program. Member.

At Kansas State University:

2017, 2015 NSF Graduate Research Fellowship Program Panel
2016, 2013, 2012 NSF Full proposal Panel, IOS, PSS Cluster.
2015, 2013, 2012 NSF Pre-proposal Panel, IOS, PSS Cluster.

University:

2017 - 2018 Department of Plant Pathology, Virology Search Committee. Member (Hired - Nouri).
2016 - 2017 College of Arts and Sciences, Committee on Diversity. Member.
2014 - 2017 Ecological Genomics Institute, Steering Committee. Member.
2012 - 2013 Department of Entomology, Insect Genomics Search Committee. Member (Hired - Ragland).
2008 - 2012 Arthropod Genomics Center, Seminar Committee. Member.
2007 - 2008 Department of Plant Pathology, Population Genetics Search Committee. Member (Hired - Toomajanian).
2006 - 2016 Ecological Genomics Institute, Symposium Organization Committee. Member. (2008 co-Chair with L. Johnson)
2006 - 2012 Arthropod Genomics Center, Curriculum Committee. Member.

Division of Biology:

2014 - 2015 Division of Biology website redesign with Bob Lehew, Kansas State University.
2013 - 2014 Evolutionary Biology Search Committee. Member (Hired - Tobler), Kansas State University.
2012 - 2013 Tenure and Promotion Committee, Kansas State University. Member.
2011 - 2017 Graduate Recruitment Committee, Kansas State University, 2016 - 2017 co-Chair with K. Michel; 2013 - 2016 Chair; 2012 - 2013 co-Chair with R. Clem; 2011 - 2012 Member.
2009 - 2017 Seminar Committee, Kansas State University, 2015 - 2017 Chair; 2014 co-Chair with W. Dodds; 2009 - 2013 Member.
2000 - 2001 Graduate Student Representative to the Faculty, Washington State University, School of Biological Sciences, Pullman.

Ecology and Evolutionary Biology Section:

2014 - 2015 Section Chair, Ecology and Evolutionary Biology Section.
2011 - 2012 Working group on the Strategic Vision Document. Committee of six (Ferguson, Gido, Morgan, Nippert, Sandercock, and Ungerer) no chair.
2011 - 2012 EEB Seminar Organization Committee (with Nippert, Ungerer, and Gido)

EDITORIAL / REVIEWER SERVICE

Journals:

Guest Editor:

2017 - 2018 Ecological Genomics Special Issue in *Genome* with Ungerer, Herman, Johnson, & Olson

Ad hoc Reviewer:

Biol. J. of the Linn. Soc., Biology Letters, BMC Evolutionary Biology, BMC Genetics, Genes, Brain, and Behavior, Genetics, Evolution, Experimental Gerontology, Functional Ecology, Genetica, Genetics Research, Genetics, Heredity, J. of Evolutionary Biology, J. of Heredity, J. of Insect Physiology, Insect Molecular Biology, Molecular Biol. & Evolution, Molecular Ecology, Naturwissenschaften, Pharm. &

Toxicology, Physiological Entomology, PLoS Genetics, PLoS One

Funding:

Leadership:

2017 - present Program Director, NSF, BIO Directorate, Division of IOS, PSS Cluster

- IEP Program
- EDGE Program

Panel service:

2017, 2015 NSF Graduate Research Fellowship Program
2016, 2013, 2012 NSF Full proposal Panel, IOS, PSS Cluster.
2015, 2013, 2012 NSF Pre-proposal Panel, IOS, PSS Cluster.

Ad hoc Reviewer:

NSF, DEB, Evolutionary Process Cluster
NSF, MCB, Genes and Genome Systems Cluster
U.S. Civilian Res. and Development Foundation Grants
Kansas State University Arthropod Genomics Center Seed Grants
Kansas State University Integrated Genomics Facility 454 seed grant program
Human Frontier Science Program (hfsp.org)

9. REFERENCES

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