Shawn M. Wilder Ph.D.

Associate Professor

Department of Integrative Biology, 501 Life Sciences West

Oklahoma State University, Stillwater, OK

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APPOINTMENTS

2019-	Associate Professor, Dept. of Integrative Biology, Oklahoma State University
2014-19	Assistant Professor, Dept. of Integrative Biology, Oklahoma State University
2013-14	ARC DECRA Fellow and Lecturer, School of Biol. Sci., University of Sydney

EDUCATION AND TRAINING

2010-12	Postdoctoral Fellow, University of Sydney, Mentor: Prof. Stephen Simpson
2007-10	Postdoctoral Res. Associate, Texas A&M University, Mentor: Prof. Micky Eubanks
2007	Ph.D., Zoology , Miami University, Oxford, OH, Advisor: Prof. Ann Rypstra <i>Dissertation</i> : The Roles of Ecological and Phylogenetic Conditions in the Occurrence and Frequency of Sexual Cannibalism in Spiders
2003	M.S., Zoology , Miami University, Oxford, OH, Advisor: Prof. Douglas Meikle <i>Thesis</i> : Factors Influencing the Negative Density-Area Relationship of <i>P. leucopus</i>
2001	B.A. , Conservation Biology, magna cum laude, Bradford College, Bradford, MA

TEACHING EXPERIENCE

Courses taught/co-taught:

2017, 21, 22 (Spr)	BIOL 3104 Invertebrate Zoology, Oklahoma State University
2014-20 (Fall)	BIOL 1114 Introductory Biology, Oklahoma State University
2016, 18-20 (Spr)	BIOL 5123 Behavioral Ecology, Oklahoma State University
2017 - 2022	BIOL 2890 Honors Seminar in Nutritional Ecology
2013	BIOL 2921 Zoology, University of Sydney – co-taught
2010, 11, 12	BIOL 2017 Entomology, University of Sydney – co-taught
2004	ZOO 311 Vertebrate Zoology, Miami University

Teaching Assistant, Department of Zoology, Miami University, OH.

2001-07 Comparative Vertebrate Anatomy, Animal Behavior, Human Physiology, Biological Concepts

OTHER APPOINTMENTS

2022 – pres	Graduate Faculty Status, University of Central Arkansas
2012 – pres	Oikos, Subject Editor
2012 – pres	Ecology and Evolution, Associate Editor

PEER-REVIEWED PUBLICATIONS

In ·	press

70. Barnes, C.L., N.W. Blay and S.M. Wilder. In press. Thermal tolerances of different life stages, sexes, and species of widow spiders (Araneae, Theridiidae). Journal of Arachnology.

Published

- 69. Wilder, S.M. and C.L. Barnes. 2023. Comparing the accuracy of protein measures for arthropods. Journal of Insect Physiology. 144: 104470.
- 68. Wiggins, W. and S.M. Wilder. 2022. Carbohydrates complement high protein diets to maximize the growth of an actively hunting predator. Ecology and Evolution. 12: e9150.
- 67. Wilder, S.M. and S.J. Simpson. 2022. A vertebrate, the fence skink, is a common but low-quality prey for an invertebrate predator, the redback spider. Food Webs. 32: e00236.
- 66. Neumann, L., S. Fuhlendorf, C. Davis and S.M. Wilder. 2022. Climate alters the movement ecology of a non-migratory bird. Ecology and Evolution. 12: e8869.
- 65. Reeves, J.T., S.D. Fuhlendorf, C.A. Davis and S.M. Wilder. 2022. Seasonality and habitat management influence arthropod prey for northern bobwhites (*Colinus virginianus*). Rangeland Ecology and Management. 83: 69-80.
- 64. Reeves, J.T., S.D. Fuhlendorf, C.A. Davis and S.M. Wilder. 2021. Arthropod prey vary among orders in their nutrient and exoskeleton content. Ecology and Evolution. 11: 17774-17785.
- 63. Řezáč, M., N. Gloríková, S.M. Wilder and P. Heneberg. 2021. The sublethal effects of neonicotinoids on spiders are independent of their nutritional status. Scientific Reports. 11: 8496.
- 62. Cuff, J.P., S.M. Wilder, M.P.T.G. Tercel, R. Hunt, S. Oluwaseun, P.S. Morley, R.A. Badell-Grau, I.P. Vaughan, J.R. Bell, P. Orozco-terWengel, W.O.C. Symondson and C.T. Muller. 2021. MEDI: Macronutrient extraction and determination from invertebrates, a rapid, cheap and streamlined protocol. Methods in Ecology and Evolution. 12: 593-601.
- 61. Butler, A., C. Davis, S. Fuhlendorf and S.M. Wilder. 2021. Effects of fire on ground-dwelling arthropods in a shrub-dominated grassland. Ecology and Evolution. 11: 427-442.
- 60. Walker, R., S.M. Wilder and A.L. Gonzalez. 2020. Temperature dependency of predation: increased killing rates and prey mass consumption by predators with warming. Ecology and Evolution 10: 9696-9706.
- 59. Gonzalez, A., C.L. Barnes, S.M. Wilder and J.M. Long. 2020. Differences in macronutrient content of common aquatic macroinvertebrates available as prey for young-of-the-year *Scaphirhynchus* sturgeons in the lower Missouri River. Freshwater Ecology. 35: 191-202.
- 58. Lach, L., T.M. Volp and S.M. Wilder. 2019. Previous diet affects the amount but not the type of bait consumed by an invasive ant. Pest Management Science 75: 2627-2633.
- 57. Barnes, C.L., D. Hawlena, M. McCue and S.M. Wilder. 2019. Consequences of prey exoskeleton content for predator feeding and digestion. Oecologia 190: 1-9.

- 56. Koemel, N., C. Barnes and S.M. Wilder. 2019. Metabolic and behavioral responses of predators to prey nutrient content. Journal of Insect Physiology 116: 25-31.
- 55. Barnes, C.L., D. Hawlena and S.M. Wilder. 2019. Predators buffer the effects of variation in prey nutrient content for nutrient deposition. Oikos 128: 360-367.
- 54. Wilder, S.M., C.L. Barnes and D. Hawlena. 2019. Predicting predator nutrient intake from prey body contents. Frontiers in Ecology and Evolution 7: 42.
- 53. Barnes, C.L., N.W. Blay and S.M. Wilder. 2019. Upper thermal tolerances of different life stages, sexes, and species of widow spiders (Araneae, Theridiidae). Journal of Insect Physiology 114: 10-14.
- 52. Rendon, D., P.W. Taylor, S.M. Wilder and M.E.A. Whitehouse. 2019. Prey selection and nutritional content in a ground arthropod food web. PLoS One 14: e0210296.
- 51. Wiggins, W. and S.M. Wilder. 2018. Mismatch between dietary requirements for lipid by a predator and availability of lipid in prey. Oikos 127: 1024-1032.
- 50. Yuan, L., S.M. Wilder, D. Raubenheimer, S.J. Simpson, M. Shaw and B.M. McAllan. 2018. Dietary protein supplementation and its consequences for intake, digestion and activity level of a marsupial carnivore, *Sminthopsis crassicaudata*. Ecology and Evolution 8:3636-3647.
- 49. Lowe, E.C., C.G. Threlfall, S.M. Wilder and D.F. Hochuli. 2018. Environmental drivers of spider community composition at multiple scales along an urban gradient. Biodiversity and Conservation 27: 829-852.
- 48. Wiggins, W., S. Bounds and S.M. Wilder. 2018. Laboratory-reared and field-collected predators respond differently to same experimental treatments. Behavioral Ecology and Sociobiology 72: 19.
- 47. Wilder, S.M. and J.M. Schneider. 2017. Micronutrient consumption by female *Argiope bruennichi* affects offspring survival. Journal of Insect Physiology 100: 128-132.
- 46. Lowe, E.C., S.M. Wilder and D.F. Hochuli. 2017. Life history of an urban tolerant spider shows resilience to anthropogenic habitat disturbance. Journal of Urban Ecology 3: jux004.
- 45. Boisseau, R., S.M. Wilder and K.L. Barry. 2017. Sexual and nonsexual cannibalism have different effects on offspring performance in redback spiders. Behavioral Ecology 28: 294-303.
- 44. Morrison, J.M., C.L. Murphy, K. Baker, R. Zamor, S. Nikolai, S.M. Wilder, M.S. Elshahed and N.H. Youssef. 2017. Microbial communities mediating algal detritus turnover under anaerobic conditions. PeerJ 5: e2803.
- 43. Wilder, S.M., L. Yuan, C. Roumilhac, A. LeGal, D. Raubenheimer, S.J. Simpson and B.M. McAllan. 2016. Three-dimensional macronutrient balancing and its consequences for activity level and weight gain in a marsupial carnivore. Journal of Mammalogy 97: 1645-1651.
- 42. Wilder, S.M. and P.D. Jeyasingh. 2016. Merging elemental and macronutrient approaches for a comprehensive study of energy and nutrient flows. Journal of Animal Ecology 85:

- 1427-1430.
- 41. McCue, M.D., I. Salinas, G. Ramirez and S.M. Wilder. 2016. The postabsorptive and postprandial metabolic rates of praying mantises: comparisons across species, body masses, and meal sizes. Journal of Insect Physiology 93-94: 64-71.
- 40. Lowe, E.C., S.M. Wilder and D.F. Hochuli. 2016. Persistence and survival of the spider *Nephila plumipes* in cities: do increased prey resources drive the success of an urban exploiter? Urban Ecosystems 19: 705-720.
- 39. Hawley, J., S.J. Simpson and S.M. Wilder. 2016. Flesh flies regulate the consumption of three macronutrients to maximize lifespan and egg production. Behavioral Ecology. 27: 245-251.
- 38. Wilder, S.M., D. Raubenheimer and S.J. Simpson. 2016. Moving beyond body condition indices as an estimate of fitness in ecological and evolutionary studies. Functional Ecology. 30: 108-115.
- 37. Bockoven, A.A., S.M. Wilder and M.D. Eubanks. 2015. Intraspecific variation in behavior: regional and colony-level differences in fire ant foraging behavior affect fitness. PLoS One. 10: e0133868.
- 36. Wills, B.D., C.D. Chong, S.M. Wilder, M.D. Eubanks, D.A. Holway and A.V. Suarez. 2015. Effects of plant-based carbohydrate resources on investment in worker number, size, and condition in a social insect. PLoS One. 10: e0132440.
- 35. Kleinteich, A., S.M. Wilder and J.M. Schneider. 2015. Contributions of juvenile and adult diet to the lifetime reproductive success and lifespan of a spider. Oikos 124: 130-138.
- 34. Simpson, S.J., F. Clissold, M. Lihoreau, F. Ponton, S.M. Wilder and D. Raubenheimer. 2015. Recent advances in the integrative nutrition of arthropods. Annual Review of Entomology 60: 293-311.
- 33. Lowe, E.C., S.M. Wilder and D.F. Hochuli. 2014. Urbanization is associated with larger size and higher fecundity of a spider at multiple spatial scales. PLoS One 9: e105480.
- 32. Hawley, J., S.J. Simpson and S.M. Wilder. 2014. Effects of prey macronutrient composition on nutrient reserves and diet regulation in a web-building spider. PLoS One 9: e99165.
- 31. Le Couteur, D.G., S.M. Wilder, R. de Cabo and S.J. Simpson. 2014. The evolution of research on aging and nutrition. Journal of Gerontology: Biological Sciences 69: 1-2.
- 30. Wilder, S.M., M. Norris, R.W. Lee, D. Raubenheimer and S.J. Simpson. 2013. Arthropod food webs become increasingly lipid-limited at higher trophic levels. Ecology Letters. 16: 895-902.
- 29. Barry, K.L. and S.M. Wilder. 2013. Macronutrient intake affects reproduction of a predatory insect. Oikos 122: 1058-1064.
- 28. Wilder, S.M. 2013. Variation among clutches in the response of spiders to prey nutrient content. Journal of Arachnology 41: 53-58.
- 27. Wilder, S. M., T.R. Barnum, D. A. Holway, A. V. Suarez and M. D. Eubanks. 2013. Introduced fire ants can exclude native ants from critical mutualist-provided resources.

- Oecologia 172: 197-205.
- 26. Wilder, S. M., D. G. Le Couteur and S. J. Simpson. 2013. Diet mediates the relationship between longevity and reproduction in mammals. AGE 35: 921-927.
- 25. Schmidt, J. M., P. Sebastian, S. M. Wilder and A. L. Rypstra. 2012. The nutritional content of prey affects the foraging of a generalist arthropod predator. PLoS One 7: e49223.
- 24. Wilder, S. M. and A. L. Rypstra. 2012. Tradeoff between pre- and postcopulatory sexual cannibalism in a wolf spider (Araneae: Lycosidae). Behavioral Ecology and Sociobiology 66: 217-222.
- 23. Wilder, S. M., D. A. Holway, A. V. Suarez, E. G. LeBrun and M. D. Eubanks. 2011. Intercontinental differences in resource use reveal the importance of mutualisms for fire ant invasions. Proceedings of the National Academy of Sciences USA 108: 20639-20644.
- 22. Wilder, S. M. 2011. Spider nutrition: an integrative perspective. Advances in Insect Physiology 40: 87-136.
- 21. Wilder, S. M., D. A. Holway, A. V. Suarez and M. D. Eubanks. 2011. Macronutrient content of plant-based food affects growth of a carnivorous arthropod. Ecology 92: 325-332.
- 20. Wilder, S. M. and M. D. Eubanks. 2010. Might nitrogen limitation promote omnivory among carnivorous arthropods: Comment. Ecology 91: 3114-3117.
- 19. Wilder, S. M., A. V. Suarez and M. D. Eubanks. 2010. The use of simulation modeling to evaluate the mechanisms responsible for the nutritional benefits of food-for-protection mutualisms. Ecological Modelling 221: 1505-1511.
- 18. Wilder, S. M. and A. L. Rypstra. 2010. Males make poor meals: a comparison of nutrient extraction during sexual cannibalism and predation. Oecologia 162:617-625.
- 17. Wilder, S. M., and M. D. Eubanks. 2010. Extrafloral nectar content alters foraging preferences of a predatory ant. Biology Letters 6: 177-179.
- 16. Wilder, S. M., D. Mayntz, S. Toft, A. L. Rypstra, A. Pilati and M. J. Vanni. 2010. Intraspecific variation in the quality of prey: a comparison of nutrient presence in prey and nutrient extraction by spiders. Oikos 119: 350-358.
- 15. Wilder, S. M., A. L. Rypstra and M. A. Elgar. 2009. The roles of ecological and phylogenetic factors for the occurrence and frequency of sexual cannibalism. Annual Review of Ecology, Evolution and Systematics 40: 21-39.
- 14. Wilder, S. M. and A. L. Rypstra. 2008a. Sexual size dimorphism predicts sexual cannibalism in spiders. American Naturalist 172: 431-440.
- 13. Wilder, S. M. and A. L. Rypstra. 2008b. Prior encounters with the opposite sex affect male and female mating behavior in a wolf spider (Araneae, Lycosidae). Behavioral Ecology and Sociobiology 62: 1813-1820.
- 12. Wilder, S. M. and A. L. Rypstra. 2008c. Diet quality affects mating behaviour and egg production in a wolf spider. Animal Behaviour 76: 439-445.
- 11. Wilder, S. M. and A. L. Rypstra. 2008d. Sexual size dimorphism mediates the occurrence of

- state-dependent sexual cannibalism in a wolf spider. Animal Behaviour 76: 447-454.
- 10. Marcello, G. J., S. M. Wilder and D. B. Meikle. 2008. Pulsed food resources and the population dynamics of a generalist rodent, *Peromyscus leucopus*. Journal of Animal Ecology 77: 41-46.
- 9. Wilder, S. M. and A. L. Rypstra. 2007. Male control of copulation duration in a wolf spider (Araneae, Lycosidae). Behaviour 144: 471-484.
- 8. Folz, H. C.*, S. M. Wilder, M. H. Persons and A. L. Rypstra. 2006. Changes in vertical habitat use and foraging of *Pardosa milvina* in response to chemical cues of the predator *Hogna helluo* (Araneae, Lycosidae). Ethology 112:1152-1158.
- 7. Wilder, S. M. and D. B. Meikle. 2006. Variation in effects of fragmentation on the white-footed mouse (*Peromyscus leucopus*) during the breeding season. Journal of Mammalogy 87: 117-123.
- 6. Wilder, S. M. and D. B. Meikle. 2005. Reproduction, foraging and the negative density-area relationship of a generalist rodent. Oecologia 144: 391-398.
- 5. Wilder, S. M., J. DeVito, M. H. Persons and A. L. Rypstra. 2005. The effects of moisture and heat on the efficacy of chemical cues used in predator detection by *Pardosa milvina* (Araneae, Lycosidae). Journal of Arachnology 33: 857-861.
- 4. Wilder, S. M., A. M. Abtahi* and D. B. Meikle. 2005. Effects of forest fragmentation on populations of white-footed mice (*Peromyscus leucopus*) in the winter. American Midland Naturalist 153: 71-79.
- 3. Wilder, S. M. and A. L. Rypstra. 2005. Use of cues of prey and prey habitat in patch selection by juvenile praying mantids (Mantodea: Mantidae). American Midland Naturalist 153: 187-191.
- 2. Wilder, S. M. and D. B. Meikle. 2004. Prevalence of the deer tick (*Ixodes scapularis*) on white-footed mice (*Peromyscus leucopus*) in forest fragments. Journal of Mammalogy 85: 1015-1018.
- 1. Wilder, S. M. and A. L. Rypstra. 2004. Chemical cues from an introduced predator (Mantodea, Mantidae) reduce the movement and foraging of a native wolf spider (Araneae, Lycosidae). Environmental Entomology 33: 1032-1036.

In review or preparation

- Cuff, J.P., D.M. Evans, I.P. Vaughan, S.M. Wilder, M.P.T.G. Tercel and F.M. Windsor. In revision at Ecology Letters. Networking nutrients: how nutrition determines the structure of ecological networks.
- Cuff, J.P., M.P.T.G. Tercel, I.P. Vaughan, L.E. Drake, S.M. Wilder, J.R. Bell, C.T. Muller, P. Orozco-terWengel and W.O.C. Symondson. In review at Functional Ecology. Nonrandom trait-dependent nutritional dynamics of spiders under field conditions.
- Herzog, C.E., M. Ellison, J.P.K., J.T. Reeves and S.M. Wilder. In preparation. A review of associations between Microhylidae anurans and Theraphosidae spiders.

GRANTS AND AWARDS

Current

2019-23 Wilder, S.M. and D. Hawlena. Predation on 'nutrient vectors' regulates patch nutrient dynamics: Testing how predation by spiders regulates nutrient dynamics in the Negev Desert. Binational Science Foundation. \$259,200 total (\$128,989 to Wilder).

Pending

Pending Wilder, S.M. Submitted to NSF IOS on 10/31/22. Using Sexual Cannibalism to Understand How Micronutrients Affect Offspring Traits. Requested \$533,554. Proposed dates: 4/23-3/26.

<u>Past</u>

- 2018-21 Davis, C., S. Fuhlendorf, S.M. Wilder, D. Elmore and L. Goodman. Quail Ecology and Management II. Oklahoma Department of Wildlife Conservation. \$1,215,891 total (\$215,452 to Wilder).
- 2018-20 Baum, K.A., S.M. Wilder, J.B. Belden, K.L. Giles and S.D. Fuhlendorf. Effects of Multiple Stressors on Pollinator Health in the Southern Plains. Foundation for Food and Agriculture Research, Pollinator Health Fund. \$233,708 total. No cost extension to end of 2022.
- Wilder, S.M. EAGER: Combining elemental and biochemical measures of prey to improve predictions of trophic transfers of nutrients. National Science Foundation DEB: Population and Community Ecology. \$199,921 to Wilder. No cost extension to August 2021.
- 2014-17 ARC Linkage Grant, University of Sydney and the Taronga Conservation Society Dining with Dasyurids: Using Nutritional Geometry to Improve Diets for Captive Breeding Programs. D. Raubenheimer, B. McAllan, S.J. Simpson, R.E. Spindler, M. Van Sluys, M. Shaw, S.M. Wilder (was Lead Investigator but changed to collaborator due to move to OSU). Awarded: \$284,500
- 2013-14 ARC Discovery Early Career Researcher Award, University of Sydney Nutritional Regulation of Food Chain Length in Terrestrial Arthropod Communities Awarded: \$375,000
- 2013 Research Supplement, University of Sydney Awarded: \$30,000
- 2011-13 Postdoctoral Research Fellowship, University of Sydney Carnivory: An Understudied but Fundamental Link in Nutritional Ecology Awarded: \$275,000
- 2007 Graduate Student Achievement Award, Miami University Awarded: \$300
- 2006 Dissertation Scholar Fellowship, Miami University Awarded: \$ 16,000
- 2005 Doctoral-Undergraduate Opportunities for Scholarship, Miami U. Awarded: \$775 Behavioral predictors of mating and sexual cannibalism in a spider (with Kai Voris)
- 2004 Doctoral-Undergraduate Opportunities for Scholarship, Miami U. Awarded: \$1,000 Vertical Effects of Predator Cues on Prey Behavior (with Hillary Folz)

2004	Graduate Student Achievement Award, Miami University Awarded: \$300
2003	Animal Behavior Society: Student Research Grant, Miami U. Awarded: \$500 Ecological Factors Affecting Resumption of Activity Following a Predator Encounter
2003	American Arachnological Society, Miami U. Awarded: \$300 Ecological Factors Affecting Resumption of Activity Following a Predator Encounter
2003	Sigma Xi: Grant-in-Aid of Research Miami University Awarded: \$312 Condition-Dependent and Delayed Reproductive Benefits of Sexual Cannibalism
2001	Graduate Student Academic Achievement Award, Miami U. Awarded: \$5,000

MENTORSHIP

Graduate Students - Present

2018-pres Tyler Spresser

Ph.D. Student

Co-supervised with Kristen Baum

2018-pres Jacob Reeves

Ph.D. Student 2021-pres M.S. Student 2018-2020

2020-pres Colton Herzog

Ph.D. Student 2022-pres M.S. Student 2020-2022

Past Sabbatical Visitors

2018-19 Milan Rezac

Crop Research Institute, Prague, Czech Republic

Past Postdoctoral Associates

2018-20 Cody Barnes, Oklahoma State University

Past Graduate Students

2019 Jackelynn Gutierrez

M.S. Student – not completed

2017-19 Anna Butler

M.S. Student

Effect of fire and habitat interactions on arthropod forage for Northern bobwhite broods

2016-18 Sarah Bounds

M.S. Student

Interactive effects of nutrients and temperature on plant-herbivore interactions

2014-18 Cody Barnes

Ph.D. Student

Contribution of spider resource use to ecosystem nutrient flow and function 2014-18 Will Wiggins Ph.D. Student Sexual selection and nutrition: How does diet affect reproductive performance, and how do males compensate to make the best of a bad situation? 2012-16 Elizabeth (Lizzy) Lowe (Co-supervised with A/Prof. Dieter Hochuli) Ph.D. Student, The University of Sydney Does urbanization alter guild assemblages and size distributions of spiders? Past Undergraduate Researchers 2022 Savannah Strickland Effects of fire and habitat variables on ant communities in western Oklahoma 2022 Lucy Melendez Effects of dietary nitrate on caterpillar growth *Education major training to be a Secondary School Teacher 2020-21 Emilee Harmon, Oklahoma State University Effects of spider-derived nutrients on soil respiration RET student (Research Experiences for Teachers) Effects of diet on body nutrient content in German cockroaches 2nd Place in the Spring 2021 Karen L. Smith Undergraduate Research Symposium *Education major training to be a Secondary School Teacher 2020 Andrew Johnson, Oklahoma State University The relationship between prey defenses and activity *Education major training to be a Secondary School Teacher 2019 Shane Hohn, Oklahoma State University Consequences of soil fertilizer balance for plant growth *Education major training to be a Secondary School Teacher 2019 Katlynn Morrow, Oklahoma State University Comparing elemental and macronutrient measures of prey quality *Education major training to be a Secondary School Teacher 2018-19 Gabriella Smith, Freshman Research Scholar, Oklahoma State University Consequences of spider excreta for soil microbes and plant growth 1st place in Life Sciences Freshman Research Scholar Symposium 2016-18 Nick Koemel, Oklahoma State University Graduate Student Mentor: Cody Barnes Effects of prey macronutrient composition on metabolic rate of wolf spiders Recipient of a Wentz Research Grant, OSU 2017-18 Runner up in Wentz Research Symposium 2018 Honorable Mention for the Undergraduate Library Research Award, OSU 2018 2014-18 Taylor Brooks, Freshman Research Scholar, Oklahoma State University Consequences of predator stress for diet regulation of crickets

	Recipient of a Wentz Research Grant, OSU 2016-17 Honorable Mention for the Undergraduate Library Research Award, OSU 2017
2017	Brittnie Paul, Oklahoma State University Consequences of dietary nutrient balance for senescence *Education major training to be a Secondary School Teacher
2016-17	Reagan Brooks, Freshman Research Scholar, Oklahoma State University Effects of prey mobility on web-building behavior of spiders
2016	Duke Schaeffer, Oklahoma State University Graduate Student Mentor: Will Wiggins Consequences of diet for spider jumping ability
2015-16	Paige Foster, Independent Research, Oklahoma State University Consequences of soil nutrient ratios for plant macronutrient content
2015-16	Sarah Bounds, Independent Research, Oklahoma State University Effects of carbohydrates on jumping spider activity and respiration
2015-16	Macy Gleason, Independent Research, Oklahoma State University Consequences of soil nutrient ratios for herbivore growth *Education major training to be a Secondary School Teacher
2013	Cecile Roumilhac, Intern from National Veterinary School of Toulouse, France Diet regulation and effects of diet on activity of fat-tailed dunnarts
2013	Alice LeGal, Intern from National Veterinary School of Toulouse, France Diet regulation by Tasmanian devils
2013	Michael Sulinggo, University of Sydney Effects of dietary macronutrient balance on growth of larval flesh flies
2012-13	Jesse Hawley (Co-supervised with Prof. Stephen Simpson) Honour Student (First-Class score) The impact of diet on the longevity and fecundity of a carnivore (Diptera: Sarcophagidae)
2012-13	Claire MacAlpine (Co-supervised with A/Prof. Dieter Hochuli) Honours Student (First-Class score) Consequences of exotic flower introductions on the distribution and foraging success of Australian crab spiders
2011	Michael Norris (Co-supervised with Prof. Stephen Simpson) Honours Student (First-Class score) Consequences of macronutrient variation in arthropod food webs for carnivores
2009	Hannah McKenrick, Texas A&M University Foraging preferences for carbohydrates and amino acids by fire ants
2007-07	Maura Reilly, Miami University The nutritional quality of cannibalism for crickets (<i>Acheta domesticus</i>)
2004-05	Douglas Kai Voris (<i>coauthor on grant: \$775</i>), Miami University Which factors predict female associations with males in <i>Hogna helluo</i> ?

2003-04 Hillary Folz (coauthor: Folz et al. 2006, coauthor on grant: \$1,000, runner-up for the Genesis Award at the 2004 Animal Behavior Meeting in Oaxaca, Mexico) Vertical effects of predator cues on habitat use and foraging of Pardosa milvina

2002-03 Amir Abtahi (*coauthor: Wilder et al. 2005*), Miami University Winter effects of fragmentation on white-footed mice (*Peromyscus leucopus*)

Past High School Students

2019-20 Will Chrz, Morrison Public Schools, Oklahoma
Consequences of fertilizer balance for plant growth and nutrient content

Trey Snowden, Morrison Public Schools, Oklahoma
 How does timing of fertilization affect the quality of plants for caterpillars?
 First place, Central Oklahoma Regional Science Fair (9th grade, Animal Sciences, Ecology) - 2017
 First place, 9th Grade Division at the Regional JSHS Science Fair – 2017
 Second place, Plant Systems Division, National FFA Conference - 2018

GRADUATE STUDENT COMMITTEE MEMBER:

Oklahoma State University

Kiera Kauffman – Ph.D. Student (NREM)

Matthew Turnley – Ph.D. Student (NREM)

Carrie Klase – Ph.D. Student

Danielle Kirsch - Ph.D. Student

Angela Riley – M.S. Student

Jonathan Albers – M.S. Student - Completed

Katherine Ramos - M.S. Student - Completed

Tim Black – Ph.D. Student (Psychology) - Completed

Matthew Ridenour – M.S. Student - Completed

Kelsey Brass – M.S. Student - Completed

Allison Hanna – M.S. Student - Completed

Nick Blay - Ph.D. Student - Completed

Patrick Lind - Ph.D. Student - Completed

Lizzie Van Ert – M.S. Student - Completed

Kristen Bayley – M.S. Student – Completed

HONORS READER:

<u>Integrative Biology, Oklahoma State University</u> Jonah Van Roekel - 2018

Taylor Brooks - 2018

PUBLIC OUTREACH:

2020-21 <u>Lessons to a Pandemic Pod of Six Pre-K – 1st Grade Students</u>: Burrowing Spiders

Caterpillars and Butterflies

Spider Anatomy and Biology

The Scientific Method

Sea Creatures – Live Marine Invertebrates

2019 <u>Stillwater Charlotte Mason Co-op Homeschool Group</u>

Insect Diversity - 4 classes of children ages 6-12 (55 students) Spider Biology - 4 classes of children ages 6-12 (55 students)

Oak Tree Children's Academy, Stillwater, OK

Insect and Spider Ecology and Diversity - 3 classes of children ages 2-5 (> 40 students)

2018 Oak Tree Children's Academy, Stillwater, OK

Insect and Spider Ecology and Diversity - 3 classes of children ages 2-5 (> 40 students)

PEER-REVIEWER FOR:

Grant Agencies:

National Science Foundation (NSF) Australian Research Council (ARC) French National Research Agency (ANR) Czech Science Foundation (GAČR) Louisiana Board of Regents

Journals:

Ecology Biological J. Linnean Soc. Phytoparasitica

Ecology Letters Biology Letters Agri. and Forest Entomol.
Trends in Ecology and Evol. Ethology Naturwissenschaften
Proc. of the Royal Soc. B Journal of Anim. Ecology Entomol. Exp. et Appl.
Functional Ecology Journal of Ethology Applied Ento. and Zool.

Ecosphere Journal of Gerontology Insect Science

Oikos Journal of Mammalogy Entomological Science

Oecologia Journal of Arachnology Sociobiology
Animal Behaviour Journal of Arid Lands Insectes Sociaux

Behav. Ecol. Sociobiol. Journal of Insect Physiol. African J. Food Science
BMC Evolutionary Biology Journal of Insect Cons. African J. Biotechnology

PLoS One Ecological Entomology Scientific Reports

Polyayiour Processes Processes

Behaviour Behavioural Processes Psyche Biological Invasions Basic and Applied Ecology PeerJ

Biological Control Am. Midland Naturalist Royal Society Open Science

Biological Conservation Sci. of the Total Environ. Food Webs

Frontiers in Behavioral and Evolutionary Ecology, Review Editor (since 2013)

ACADEMIC SERVICE

Academic Facilitator, Oklahoma State University, 2014-pres

Chair of Physiology Search Committee (2 positions), 2022-2023

Personnel Committee member, Oklahoma State University, 2019-2022 (Chair 2022)

Planning Committee member, Oklahoma State University, 2014-18, 2022-present (Chair 2017-18)

Ad Hoc Committee for Best Practices in Job Searches, OSU 2020-21

Search Committee member for Physiology Assistant Professor, OSU 2019-20

Awards Committee member, Oklahoma State University, 2017-20 (Chair 2019-20)

Search Committee member for Neurobiology Assistant Professor, OSU 2018-19

Search Committee Member for Clinical Assistant Professor, OSU 2015

Judge for Karen L. Smith Undergraduate Research Symposium, 2014

Session Chair, Behavioral Ecology, International Congress of Arachnology, Taiwan 2013

Seminar Coordinator for the School of Biological Sciences, University of Sydney 2013

Meeting organizer for the Simpson Lab Group 2012 – 2014

Honours Assessor, University of Sydney 2011 – 2014

Selection Committee for Postgraduate Excellence Awards, University of Sydney 2011

Coordinator of the Postgraduate Seminar Series, University of Sydney 2011

Grad. Student Rep. to the Executive Committee of the American Arachnological Society 2005-6

Ecology Faculty Search Committee, Miami University, 2003-2004

Zoology Faculty Meeting Representative, Miami University, 2002-2006

Science Club President, Bradford College, 1999-2000

Orientation Leader, Bradford College, 1999

Student Senate Secretary, Bradford College, 1999

Student Senate Representative, Bradford College, 1998-1999

AWARDS AND DISTINCTIONS

Outstanding Reviewer for Animal Behaviour (top 10^{th} percentile of reviews returned), 2014, 15 Sigma Xi

Phi Kappa Phi, 2003

Best Presentation Award, Maine GIS User Group, 2001

Best of Show, Unity College Poster Session, 2001

Class of 1878 Scholarship, Bradford College, 1999

General Chemistry Achievement Award, Bradford College, 1999

Bradford Scholar Full Tuition Scholarship, Bradford College, 1998

INVITED SEMINARS

- 2022 Plenary lecture at the Comparative Nutrition Society Symposium "Carnivore Nutrition: An Arthropocentric Perspective"
- 2021 University of Montana, Ecology and Evolution Arizona State University, Social Insect Research Group (SIRG)
- 2019 Oklahoma State University, Department of Integrative Biology Hebrew University of Jerusalem (Israel)
- 2015 Oklahoma State University, Department of Entomology Hebrew University of Jerusalem (Israel)

- 2013 University of Sydney, Veterinary Sciences (Sydney, Australia)
 James Cook University (Cairns, Australia)
 Mississippi State University
 University of South Carolina
 Oklahoma State University
- 2012 University of Sydney, Biological Sciences (Sydney, Australia)
- 2010 Macquarie University (Sydney, Australia) Rochester Institute of Technology
- 2007 University of Aarhus (Aarhus, Denmark) Miami University (Oxford, OH)
- 2006 University of Nebraska University of Kentucky

PRESENTATIONS AND POSTERS AT MEETINGS

- Wilder, S.M. and C.L. Barnes. 2021. Measures of exoskeleton aid in predicting elemental flows in arthropod predator-prey interactions. Entomological Society of America Annual Meeting, Virtual Talk.
- Wilder, S.M. and C.L. Barnes. 2021. Predicting the fate of nitrogen during spider-arthropod trophic interactions. Talk. American Arachnological Society Virtual Annual Meeting.
- Wilder, S.M., C. Barnes, J. Reeves, C. Davis and S. Fuhlendorf. 2020. Comparing methods for protein analysis of arthropods. Talk. Entomological Society of America Virtual Annual Meeting.
- Reeves, J., C. Davis, S. Fuhlendorf, S. Wilder. 2020. Variation in the quality of potential arthropod prey of bobwhite quail (*Colinus virginianus*). Poster. Oklahoma Natural Resource Conference, Norman, OK.
- Reeves, J., C. Davis, S. Fuhlendorf, S. Wilder. 2020. Variation in the quality of potential arthropod prey of bobwhite quail (*Colinus virginianus*). Poster. Gordon Research Conference on Predator-Prey Interactions. Ventura, CA.
- Wilder, S.M., G. Smith, C. Barnes, N. Youssef and D. Hawlena. 2019. Interacting effects of spiders and soil microbes on plant growth. Talk. Entomological Society of America Annual Meeting, St. Louis, MO.
- Barnes, C.L., G. Smith, D. Hawlena, and S.M. Wilder. 2019. Predator contribution to spatial heterogeneity in soil nutrients and plant growth. Talk. Ecological Society of America Annual Meeting, Louisville, KY.
- Wiggins, W. and S.M. Wilder. June 2019. Macronutrient effects on juvenile jumping spider growth. Talk. American Arachnological Society Annual Meeting, Lexington, VA.
- Wilder, S.M., C.L. Barnes and D. Hawlena. July 2018. Elemental measures alone poorly describe trophic transfers of nutrients. Poster. Gordon Conference on Unifying Scales in Ecology. Biddeford, ME.
- Koemel, N.A., C.L. Barnes and S.M. Wilder. June 2018. Metabolic and behavioral responses to prey nutrient content. Poster. American Society of Nutrition Annual Meeting. Boston, MA.
- Barnes, C.L., D. Hawlena, M.D. McCue and S.M. Wilder. Jan 2018. Consequences of prey exoskeleton content for predator feeding and digestion. Talk. Society for Integrative and Comparative Biology.

- Wilder, S.M., C. Barnes, D. Hawlena and P.D. Jeyasingh. Aug 2017. Merging elemental and biochemical approaches in the study of trophic interactions. Talk. Ecological Society of America annual meeting, Portland, OR.
- Barnes, C.L. and S.M. Wilder. April 2017. Influence of prey exoskeleton content on spider digestive metabolism. Talk. Southwestern Association of Naturalists.
- Wiggins, W.D. and S.M. Wilder. April 2017. Nutritional landscape of a carnivorous arthropod. Talk. Southwestern Association of Naturalists.
- Wiggins, W.D. and S.M. Wilder. Jan 2017. Macronutrient effects on juvenile jumping spider growth. Talk. Society for Integrative and Comparative Biology Conference, New Orleans, LA.
- Love, A.C., A.C. Smith, S.M. Wilder and S.E. Durant. Jan 2017. In sickness and in health: How do direct and indirect cues of infection influence pair bond maintenance? Talk. Society for Integrative and Comparative Biology Conference, New Orleans, LA.
- Wilder, S.M. and T. Brooks. Sept 2016. Consequences of stress for diet balancing by an insect. Invited talk in the symposium: "Physiological Responses to Environmental Change" at the International Congress of Entomology in Orlando, FL.
- Wilder, S.M. 2016. Measuring the nutrient content of prey for spiders. Talk. International Society of Arachnology Conference. Golden, CO.
- Barnes, C.L. and S.M. Wilder. 2016. Consequences of prey nutrient content for nutrient cycling by a wolf spider (*Hogna carolinenesis*). Talk. International Society of Arachnology Conference. Golden, CO.
- Wiggins, W. and S.M. Wilder. 2016. Macronutrient effects on juvenile jumping spider growth. Talk. International Society of Arachnology Conference. Golden, CO.
- Brooks, T. and S.M. Wilder. 2016. Consequences of stress for diet regulation of crickets. Poster. Gordon Conference on Predator-Prey Interactions. Ventura, CA.
- Bounds, S., W. Wiggins and S. Wilder. 2015. Effects of carbohydrates on spider movement and respiration. Poster. Karen L. Smith Undergraduate Research Symposium, Oklahoma State University.
- Brooks, T. and S.M. Wilder. 2015. Consequences of stress for weight gain and diet regulation of crickets. Poster. Karen L. Smith Undergraduate Research Symposium, Oklahoma State University.
- Wilder, S.M. and J. Schneider. 2015. Micronutrient consumption by female *Argiope bruennichi* affects offspring survival. Talk. American Arachnological Society, Mitchell, SD.
- Lowe, E.C, S.M. Wilder, D.F. Hochuli. 2014. Spider communities in cities: have we underestimated the biodiversity value of private gardens? Talk. Ecological Society of Australia, Alice Springs.
- Lowe, E.C, S.M. Wilder, D.F. Hochuli. 2014. Boldness and feeding voracity of the European garden spider along a gradient of anthropogenic disturbance. Talk. International Society of Behavioural Ecology, New York.
- Lowe, E.C, S.M. Wilder, D.F. Hochuli. 2014. Boldness and feeding voracity of the European garden spider along a gradient of anthropogenic disturbance. Talk. Australasian Society for the Study of Animal Behaviour, Katoomba, NSW.
- Wilder, S.M. and S.J. Simpson. 2014. Linking predator diet requirements with prey nutrient content to predict predator performance in the field. Poster. Gordon Conference on Unifying Ecology Across Scales, Maine.
- Wilder, S.M. and S.J. Simpson. 2014. Prey community composition and its consequences for

- redback spider (*Latrodectus hasselti*) growth in the field. Invited Symposium Talk. International Society for Behavioral Ecology Conference, New York City.
- Wilder, S.M., D. Raubenheimer and S.J. Simpson. 2014. Using nutritional ecology to scale from predator physiology to food web interactions. Poster. Gordon Conference on Predator-Prey Interactions, California.
- Wilder, S.M. and S.J. Simpson. 2013. Quantifying food limitation in redback spiders (*Latrodectus hasselti*) in the field. Talk. Ecological Society of Australia and New Zealand joint meeting, Auckland, New Zealand.
- Wilder, S.M. and S.J. Simpson. 2013. Quantifying food limitation in redback spiders (*Latrodectus hasselti*) in the field. Talk. Entomological Society of America, Austin, TX.
- Wilder, S.M. 2013. Carnivore nutrition: It's importance and a German-Australian collaboration. Poster. Alexander von Humboldt Colloquium, Sydney.
- Wilder, S.M. and S.J. Simpson. 2013. Nutrient consumption by redback spiders (*Latrodectus hasselti*) in the field and its consequences for growth. International Congress of Arachnology, Taiwan.
- Wilder, S.M. and S.J. Simpson. 2012. Profitability of a lizard versus invertebrates as prey for redback spiders. Talk. Australian Entomological Society Meeting, Hobart, Australia.
- Wilder, S.M., M. Norris, R.W. Lee, D. Raubenheimer and S.J. Simpson. 2012. Nutritional limitation of food chain length. Invited Symposium Talk. International Congress of Entomology, Daegu, South Korea.
- Wilder, S.M. and S.J. Simpson. 2012. The nutritional consequences of spiders eating lizards. Talk. Annual Meeting of the Animal Behavior Society, Albuquerque, NM.
- Wilder, S.M. and S.J. Simpson. 2011. Manipulating the nutrient content of prey for carnivorous arthropods. Talk. Annual Meeting of the Ecological Society of America, Austin, TX.
- Eubanks, M. D., S. M. Wilder, A. V. Suarez, D. A. Holway and E. G. Le Brun. 2010. Escape from competition for extrafloral nectar and honeydew fuels fire ant invasions. Symposium Talk. Annual Meeting of the Entomological Society of America, San Diego, CA.
- Campbell, L. D., S. M. Wilder and M. D. Eubanks. 2010. Quantifying the spread of a novel soft bait through colonies of the red imported fire ant. Talk. Annual Meeting of the Entomological Society of America, San Diego, CA.
- McKenrick, H. J., S. M. Wilder, S. T. Behmer, R. E. Gold and M. D. Eubanks. 2009. The attraction of red imported fire ants (*Solenopsis invicta*) to soft baits that vary in nutritional content. Talk. Annual Meeting of the Entomological Society of America, Indianapolis, IN.
- Wilder, S. M., M. D. Eubanks, A. V. Suarez, D. A. Holway and E. G. LeBrun. 2009. Do mutualisms aid invasion? Differential use of carbohydrate resources by invasive ants in their native and invasive ranges. Talk. Annual Meeting of the Ecological Society of America, Albuquerque, NM.
- Wilder, S. M., M. D. Eubanks, A. V. Suarez and D. A. Holway. 2008. Variation in recruitment of red imported fire ants, *Solenopsis invicta*, to carbohydrate resources in their native and invasive ranges. Talk. Annual Meeting of the Entomological Society of America, Reno, NV.
- Wilder, S. M., M. D. Eubanks, A. V. Suarez and D. A. Holway. 2008. Use of carbohydrate resources by red imported fire ants, *Solenopsis invicta*, in their native and invasive ranges. Poster. Annual Meeting of the Ecological Society of America, Milwaukee, WI.

- Wilder, S. M. 2007. The role of sexual size dimorphism in sexual cannibalism in spiders. Allee Competition Talk. Annual Meeting of the Animal Behavior Society, Burlington, VT.
- Rypstra, A. L., A. M. Schlosser, S. M. Wilder, M. Yazdani and M. H. Persons. 2007. How to avoid being consumed by a relationship: risk of sexual cannibalism affects how male wolf spiders search for females. Talk. Annual Meeting of the American Arachnological Society, Susquehanna, PA.
- Wilder, S. M. and A. L. Rypstra. 2006. The effects of timing on the efficacy of sexual cannibalism in a wolf spider. Talk. Annual Meeting of the Animal Behavior Society, Salt Lake City, UT.
- Wilder, S. M. and A. L. Rypstra. 2006. The relative efficacy of pre- and postcopulatory sexual cannibalism in *Hogna helluo* (Araneae, Lycosidae). Talk. Annual Meeting of the American Arachnological Society, Baltimore, MD.
- Wilder, S. M. and A. L. Rypstra. 2006. A comparison of precopulatory and postcopulatory sexual cannibalism in a wolf spider (Araneae, Lycosidae). Poster. Annual Meeting of the Society for Integrative and Comparative Biology, Orlando, FL.
- Wilder, S. M. and A. L. Rypstra. 2005. Control of copulation duration in a wolf spider (Araneae, Lycosidae). Talk. Animal Behavior Society Annual Meeting, Salt Lake City, UT.
- Meikle, D. B., C. Anderson and S. M. Wilder. 2005. Vegetation, reproduction and the negative density-patch area relationship of *Peromyscus leucopus*. Talk. American Society of Mammalogists Annual Meeting, Southwest Missouri State University, MO.
- Wilder, S. M. and A. L. Rypstra. 2005. Control of copulation duration in a wolf spider (Araneae, Lycosidae). Talk. American Arachnological Society Annual Meeting, University of Akron, OH.
- Wilder, S. M. 2005. Sexual cannibalism in spiders. Ecolunch Talk. Department of Zoology, Miami University, Oxford, OH.
- Wilder, S. M., and A. L. Rypstra. 2005. Reproductive investment and its consequences for female wolf spiders (Araneae, Lycosidae). Talk. Midwest Ecology and Evolution Conference, Southern Illinois University at Carbondale, IL.
- Wilder, S. M., and A. L. Rypstra. 2004. Variation in the frequency of sexual cannibalism among spiders. Poster. Animal Behavior Society Annual Meeting, Oaxaca, Mexico.
- Folz, H. C., S. M. Wilder, M. H. Persons, and A. L. Rypstra. 2004. Effects of predator cues on vertical habitat use by prey. Poster. Animal Behavior Society Annual Meeting, Oaxaca, Mexico.
- Wilder, S. M., J. DeVito, M. H. Persons, and A. L. Rypstra. 2004. The effects of moisture and heat on the efficacy of chemical cues used in predator detection by the wolf spider *Pardosa milvina* (Araneae, Lycosidae). Talk. Midwest Ecology and Evolution Conference, University of Notre Dame, IN.
- Folz, H. C., S. M. Wilder, M. H. Persons, and A. L. Rypstra. 2004. Vertical location of predator cues affects climbing behavior in the wolf spider *Pardosa milvina* (Araneae, Lycosidae). Poster. Midwest Ecology and Evolution Conference, University of Notre Dame, IN.
- Wilder, S. M. and D. B. Meikle. 2004. The effects of forest fragmentation on populations of white-footed mice (*Peromyscus leucopus*) during the winter. Talk. Midwest Ecology and Evolution Conference, University of Notre Dame, IN.
- Wilder, S. M. and A. L. Rypstra. 2004. The effects of prior risk exposure on antipredator behavior in the absence of predator cues. Poster. Midwest Ecology and Evolution

- Conference, University of Notre Dame, IN.
- Wilder, S. M. and A. L. Rypstra. 2003. Decay in antipredator behavior following a predator encounter. Ecolunch Talk. Department of Zoology, Miami University, Oxford, OH.
- Wilder, S. M. and A. L. Rypstra. 2003. The use of prey and prey habitat cues in foraging patch selection by praying mantis nymphs (Mantodea: Mantidae). Poster. Entomological Society of America Annual Meeting, Cincinnati, OH.
- Wilder, S. M. and A. L. Rypstra. 2003. Behavioral responses of a native wolf spider (Araneae: Lycosidae) to cues of an introduced predator (Mantodea: Mantidae). Poster. American Arachnological Society Annual Meeting, Denver, CO.
- Wilder, S. M. and D. B. Meikle. 2003. Abundance and reproduction of white-footed mice (*Peromyscus leucopus*) in forest fragments. Talk. Midwest Ecology and Evolution Conference, University of Akron, OH.
- Wilder, S. M. and D. B. Meikle. 2003. The effects of fragmentation on the prevalence of deer ticks (*Ixodes scapularis*) on white-footed mice (*Peromyscus leucopus*). Poster. Midwest Ecology and Evolution Conference, University of Akron, OH.
- Wilder, S. M. 2003. Habitat quality and the negative density-area relationship of *Peromyscus leucopus*. Ecolunch Talk. Department of Zoology, Miami University, Oxford, OH.
- Wilder, S. M., L. D. Hayes, Y. K. Lin and N. G. Solomon. 2002. Movement patterns and home ranges of immigrant and resident prairie voles (*Microtus ochrogaster*). Poster. Animal Behavior Society Annual Meeting.
- Wilder, S. M. 2001. Improving Black Bear Telemetry. Invited Talk. Student GIS Project Contest, Maine GIS Users Group Annual Meeting.

REFERENCES

Dr. Stephen Simpson (Postdoc Advisor)
Professor and ARC Laureate Fellow
School of Biological Sciences
University of Sydney
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Dr. Micky Eubanks (Postdoc Advisor)
Professor and Agrilife Research Fellow
Department of Entomology
Texas A&M University
College Station, TX
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Dr. Ann Rypstra (Ph.D. advisor)
Distinguished Professor and Director of the
Ecology Research Center
Department of Zoology
Miami University
Hamilton, OH 45011
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Dr. Douglas Meikle (M.S. advisor)
Professor and Chair
Department of Zoology
Miami University, Oxford, OH
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