

Curriculum Vitae

Bradley Evan Carlson, Ph.D.

Associate Professor of Biology
Wabash College

Crawfordsville, IN 47933

Email: carlsonb@wabash.edu

Telephone: (765) 361-6460

Website: carlsonecolab.weebly.com

Professional Experience

2020 – present Associate Professor of Biology, Wabash College
2014 - 2020 Byron K. Trippet Assistant Professor of Biology, Wabash College

Education

2009-2014 PhD in Ecology, minor in Statistics, The Pennsylvania State University,
University Park, PA

Advisor: Dr. Tracy Langkilde

Dissertation: The evolutionary ecology of intraspecific trait variation in
larval amphibians

2008 B.S. in Biology, Bethel University, St. Paul, MN
Summa cum laude, Honors Graduate

Thesis: Temperature and desiccation effects on the antipredator behavior
of *Centruroides vittatus* (Scorpiones: Buthidae)

Research Interests

Evolutionary ecology – phenotypic diversity, local adaptation, trait integration

Behavioral ecology – phenotypic plasticity, personality traits, behavioral endocrinology

Community ecology – trait-mediated indirect interactions, predation, aquatic ecology

Zoology – herpetology, arachnology, comparative morphology

Publications

(*co-author was undergraduate)

Carlson, BE, Carter, SE, Hulbert, AC, Hyslop, NL, Kashon, EAF, Kimble, SJA, Lisk, J, McElroy, C, Mook, JL, Refsnider, JM, Roe, JH, Tetzlaff, SJ, and B Windmiller. 2024. Intrapopulation variation in boldness differs while average boldness is similar across populations of a widespread turtle. *Behavioral Ecology and Sociobiology* 78:64.

Glore*, DA, Kay*, TM, Michael*, JS, To*, JM, and BE Carlson. 2024. Effects of metolachlor and fish cues on tadpole antipredator behaviors. *Ethology Ecology & Evolution*. 36:323–342.

Mettler*, CA, and BE Carlson. 2023. Direction of *Alliaria petiolata* (Garlic mustard) leachate's effect on early litter mass loss is dependent upon saprotrophic community composition. *BIOS* 94:20-29.

Rhodes*, C, Haunfelder*, W, and BE Carlson. 2023. Citizen science reporting indicates geographic and phenotypic drivers of road use and mortality in a threatened rattlesnake. *Current Zoology* 69:264–276.

Carlson, BE, and Robinson*, WL. 2022. Trait covariances in Eastern Box Turtles do not support pleiotropic effects of the melanocortin system on color, behavior, and stress physiology. *Journal of Herpetology* 56:478-488.

Mettler*, C, Aguirre-Morales*, M, Harmeson*, J, Robinson*, WL, and BE Carlson. 2021. Effects of the herbicide metolachlor and fish presence on pond mesocosm communities. *The American Midland Naturalist* 186:199-214.

Carlson, BE, Klein*, K, and C Rhodes*. 2020. First report of rapid eye color change in a non-avian tetrapod. *Ethology* 126:942-946.

Carlson, BE, and Tetzlaff, S. 2020. Long-term behavioral consistency in wild adult and captive juvenile turtles (*Terrapene carolina*): implications for personality development. *Ethology* 126:668-678.

*Cover photo for issue of *Ethology*

Flock*, T, and BE Carlson. 2019. Exogenous octopamine increases antipredator aggression in scorpions (*Centruroides vittatus*). *Journal of Arachnology* 47:392-395.

Pich*, J, Belden*, AJ, and BE Carlson. 2019. Individual variation in boldness in turtles is consistent across assay conditions and behavioural measures. *Behaviour* 156:1039-1056.

Kashon*, EAF, and BE Carlson. 2018. Consistently bolder turtles maintain higher body temperatures in the field but may experience greater predation risk. *Behavioral Ecology and Sociobiology* 72:9.

Carlson, BE, and T Langkilde. 2017. Body size variation in aquatic consumers causes pervasive community effects, independent of mean body size. *Ecology and Evolution* 7:9978-9990.

Lambert, MR, Carlson, BE, Smylie, MS, and L Swierk. 2017. Ontogeny of sexual dichromatism in the explosively breeding Wood Frog. *Herpetological Conservation and Biology* 12:447-456.

Media coverage: InsideEcology.com

(<https://insideecology.com/2018/02/12/amphibians-that-change-colour/>)

Carlson, BE, and T Langkilde. 2016. The role of resources in microgeographic variation in Red-spotted Newt (*Notophthalmus v. viridescens*) morphology. *Journal of Herpetology* 50:442-448.

Carlson, BE, CJ Thawley, and SP Graham. 2016. Natural History of the Valley and Ridge Salamander (*Plethodon hoffmani*): Demography, Movement, Microhabitats, and Abundance. *Herpetological Conservation and Biology* 11:315-327.

Carlson, BE, Newman*, J, and T Langkilde. 2015. Food or fear: the response of tadpoles to injured conspecifics depends on hunger. *Hydrobiologia* 743:299-308.

Carlson, BE, and T Langkilde. 2014. Predation risk in tadpole populations shapes behavioural responses of prey but not strength of trait-mediated indirect interactions. *Oikos* 123:1519-1527.

Carlson, BE, McGinley*, S, and MP Rowe. 2014. Meek males and fighting females: sexually-dimorphic antipredator behavior and locomotor performance is explained by morphology in bark scorpions. *PLOS ONE* 9: e97648.

Media coverage: LiveScience.com, ScienceNews.org

Brossman*, K, Carlson, BE, Stokes, A, and T Langkilde. 2014. Eastern newt (*Notophthalmus viridescens*) larvae alter morphological but not chemical defenses in response to predator cues. *Canadian Journal of Zoology* 92:279-283.

Carlson, BE, and T Langkilde. 2014. No evidence of selection by predators on tadpole boldness. *Behaviour* 151:23-45.

Carlson, BE, and T Langkilde. 2013. Personality traits are expressed in Bullfrog tadpoles during open-field trials. *Journal of Herpetology* 47: 378-383.

Brossman*, KH, Carlson, BE, Swierk, LN, and T Langkilde. 2013. Aquatic tail size carries over to the terrestrial phase without impairing locomotion in eastern red-spotted newts (*Notophthalmus v. viridescens*). *Canadian Journal of Zoology* 91:7-12.

Carlson, BE, and T Langkilde. 2013. A common marking technique affects tadpole behavior and predation risk. *Ethology* 119:167-177.

Carlson, BE and MP Rowe. 2009. Temperature and desiccation effects on the antipredator behavior of *Centruroides vittatus* (Scorpiones: Buthidae). *Journal of Arachnology* 37:321-330.

Natural history notes and book reviews:

Carlson, BE. 2022. *Terrapene carolina carolina* (Eastern box turtle). Same-sex mounting behavior. *Herpetological Review* 53:125-126.

Carlson, BE. 2021. Review of *The Secret Social Lives of Reptiles* by JS Doody, et al. *Herpetological Review* 52:679-680.

Carlson, BE. 2018. *Terrapene carolina* (Eastern box turtle). Resistance to egg predation. *Herpetological Review* 49:111.

Carlson, BE. 2016. *Lithobates sylvaticus* (Wood frog). Melanistic larva. *Herpetological Review* 47:439.

Carlson, BE, and WS Parker. 2016. Resurrected records: “new” reptile occurrence records for Montgomery County, Indiana. *The Journal of North American Herpetology* 2016:19-22.

Carlson, BE, Williams*, J, and Langshaw*, J. 2014. Is synchronized ecdysis in wild rat snakes (*Pantherophis alleghaniensis*) linked to humidity? *Herpetology Notes* 7:471-473.

Carlson, BE. 2014. *Notophthalmus viridescens*: diet. *Herpetological Review* 45:475.

Carlson, BE. 2014. *Lithobates sylvaticus*: egg predation. *Herpetological Review* 45:279.

Carlson, BE. 2014. *Lithobates catesbeianus*: habitat. *Herpetological Review* 45:304-305.

Thawley, CJ and BE Carlson. 2013. Geographic distribution: *Hyla versicolor* (gray treefrog). *Herpetological Review*. 44: 621.

In preparation/in review:

Grilo, C, + 373 co-authors. Global Roadkill Data: a data set on terrestrial vertebrate mortality caused by collision with vehicles. In revision at *Scientific Data*.

Lambert, MR, Roddy, AB, Gosser*, C, Mettler*, CA, Robinson*, WL, and BE Carlson. Reptile sex ratios in museum collections reveal deep phylogenetic signal and recent sex ratio shifts over time in a warming climate. In preparation.

Tetzlaff, SJ, Carlson, BE, Sperry, JH, and BA DeGregorio. Boldness is not associated with post-release outcomes for head-started eastern box turtles. In preparation.

Carlson, BE. Intra- and interspecific variation in defensive behavior, locomotor performance, and morphology in scorpions. In preparation.

Presentations

Invited seminars:

Box Turtle Connection Project Leaders Workshop (virtual, North Carolina). 2021.

Wabash College, Biology Department Seminar. 2019.

Wabash College, Biology Department Seminar. 2018.

Indiana State University, Biology Department Seminar. 2017.

Purdue University, Ecolunch Seminar Series. 2016.

Penn State University, Langkilde Lab guest speaker. 2016.

DePauw University, Biology Department Seminar. 2015.

Conference presentations:

Johnson, BD, Kay, TM, Anderson, BJ, Dobbels, BL, Glore, DA, Penrose, JT, and BE Carlson. 2023. "Sample storage conditions, sex, and individual identity affect assays of innate immunity in eastern box turtles". Box Turtle Conservation Workshop. Gainesville, GA.

Carlson, BE, and WL Robinson. 2022. "Color, behavior, and stress physiology are not linked in box turtles." Joint Meeting of Ichthyologists and Herpetologists. Spokane, WA.

Carlson, BE, Carter, SE, Hulbert, AC, Hyslop, NL, Kimble, SJA, Mook, JL, Refsnider, JM, Roe, JH and SJ Tetzlaff. 2021. "Average boldness and intrapopulation variation in boldness across the range of a widespread reptile". Animal Behavior Society Virtual Meeting.

Lambert, MR, Roddy, AB, Gosser*, C, Mettler*, C, Robinson*, WL, and BE Carlson. 2019. "Reptile sex ratios in museum collections are associated with climate change and phylogeny." Joint Meeting of Ichthyologists and Herpetologists. Snowbird, UT.

Carlson, BE, Tetzlaff, S, Mook, J, Hyslop, N, Carter, S, Hulbert, A, Refsnider, J, and Roe, JH. 2019. "Consistency in Box Turtle Behavioral Variation Across Developmental Stages and Populations". Box Turtle Conservation Workshop. Haw River State Park, NC.

Carlson, BE, Belden*, AJ, Pich*, J, and S Tetzlaff. 2018. "Box Turtle Boldness is a Consistent Personality Trait Across Years, Age Classes, and Assay Conditions". Joint Meeting of Ichthyology and Herpetology. Rochester, NY.

Carlson, BE. 2017. "The ecology of personality in box turtles." Joint Meeting of Ichthyology and Herpetology. Austin, TX.

Carlson, BE. 2016. "Morphological constraints on sprint performance as drivers of anti-predator behavior in scorpions". Invited symposium speaker in *Locomotion and Kinematics: From joints and legs to whole-body performance* symposium at International Congress of Arachnology. Golden, CO.

Carlson, BE. 2016. "The status of the Eastern Box Turtle population at Allee Woods, Indiana, and the behavioral ecology of personality in Box Turtles". Box Turtle Conservation Workshop. Urbana, IL.

Carlson, BE, and T Langkilde. 2014. "Pervasive effects of size variation in tadpoles on pond communities." Society for Integrative and Comparative Biology Annual Meeting. Austin, TX.

Carlson, BE, and T Langkilde. 2013. "Ecological causes and consequences of variation in tadpole behavior." Ecological Society of America Annual Meeting. Minneapolis, MN.

Carlson, BE, and T Langkilde. 2013. "Behavioral variation among tadpole populations: ecological causes and consequences." Society for Integrative and Comparative Biology Annual Meeting. San Francisco, CA.

* **Best Student Paper** - Oral Presentation, Division of Animal Behavior

BE Carlson and T Langkilde. 2012. "Personality across ontogeny in an amphibian." Society for Integrative and Comparative Biology Annual Meeting. Charleston, SC.

Conference papers:

Mina, O, Gall, HE, Carlson, BE, and T Langkilde. 2014. "A preliminary assessment of endocrine disrupting compounds in vernal ponds in central Pennsylvania." 2014 ASABE and CSBE/SCGAB Annual International Meeting. Paper no. 141910944. doi: 10.13031/aim.20141910944

Poster presentations:

Carlson, BE. 2017. "Hormonal correlates of personality in box turtles." Joint Meeting of Ichthyologists and Herpetologists. Austin, TX.

Carlson, BE, McGinley, S, and MP Rowe. 2013. "Morphological and behavioral sexual dimorphism in scorpions as compensation for locomotor costs of reproduction." Society for Integrative and Comparative Biology Annual Meeting. San Francisco, CA.

BE Carlson, K Brossman, LN Swierk, and T Langkilde. 2011. "A tail of two newts: Aquatic tail size carries over but does not impair terrestrial locomotion in eastern newts (*Notophthalmus v. viridescens*)." Ecological Society of America Annual Meeting. Austin, TX.

BE Carlson and T Langkilde. 2011. "Does spatial variation in prey resources influence morphological variation among subpopulations of eastern newts?" Ecological Society of America Mid-Atlantic Chapter Annual Meeting. Montclair, NJ.

BE Carlson and MP Rowe. 2008. "Antipredator behaviors and thermal relations in *Centruroides vittatus* (Scorpiones: Buthidae)." Sigma Xi Research Conference. Washington, D.C.

Other presentations:

Wabash College Big Bash, "Wally Belongs: A Symposium on Community and the Liberal Arts". 2024.

Wabash College Ides of August. 2023.

Wabash College Phi Alpha Theta Lecture: "Climate Change in the American Mind". 2019.

Wabash College Ides of August. 2019.

Wabash College Ides of August. 2018.

Sugar Creek Association of Wabash Men Luncheon. 2018. Crawfordsville, IN.

Wabash College Ides of August. 2017.

Wabash College Ides of August. 2016.

Teaching Experience

At Wabash College:

BIO101 Human Biology. Instructor. 16 students (laboratory section), ~70 (lecture).

BIO103 Environmental Science. Instructor and course designer. 32 students.

BIO112 – General Biology II. Instructor. 16-21 students (laboratory section), 40-62 students (lecture). (5x)

BIO213 Ecology. Instructor and course designer. 11-28 students. (9x)

BIO221 Comparative Vertebrate Anatomy. Instructor and course designer. 12-17 students. (6x)

BIO313 Advanced Ecology. Instructor and course designer. Included Spring Break immersion trip to Everglades. 6-11 students. (5x)

BIO401 Senior Seminar: Pace-of-life syndromes: behavior, physiology, and life history. Instructor and course designer. 5 students.

BIO401 Senior Seminar: Predators and stress hormones. Instructor and course designer. 5-8 students. (4x)

BIO401 Senior Seminar: Ecology of Intraspecific Diversity. Instructor and course designer. 8-9 students. (2x)

FRC101 – Enduring Questions. Instructor. 14 students.

FRT06 – Freshman Tutorial: Humanity and Nature. Instructor and course designer. 13 students.

FRT15 – Freshman Tutorial: Monsters. Instructor and course designer. 11 students.

At The Pennsylvania State University (as graduate student):

Mammalian Anatomy. Laboratory Teaching Assistant.

Reptiles and Amphibians. Guest Lecturer. Topic: “Ecology and Behavior of Larval Amphibians”.

Wildlife Behavior. Guest Laboratory Coordinator. Topic: Evaluation of boldness as a personality trait in terrestrial isopods.

Wildlife Behavior. Guest Lecturer (one week). Topic: “Sexual Selection and Mate Choice”.

Reptiles and Amphibians, Guest Lecturer. Topics: "Ecology and Behavior of Larval Amphibians" and herpetological field trips to Rock Springs and Scotia Barrens. (3x)

Structure and Function of Organisms. Guest Lecturer. Topic: "Bigfoot and Scientific Thinking".

Experimental Field Biology. Guest Lecturer. Topic: "Ecological Statistics".

Biology: Basic Concepts and Biodiversity. Graduate Teaching Assistant. (6 laboratory sections over 3 years).

Additional teaching development:

2010-2013 Co-leader and developer of Langkilde Lab Undergraduate Discussion Group at Penn State, directed towards cultivating intellectual scientific abilities and professional development (up to ~30 students per semester)

2010-2012 BIOL 602 Supervised Experience in College Teaching, including instruction in pedagogy (3 semesters)

Student Mentorship

At Wabash College:

Travis Flock – *Scorpion defensive tactics, morphology, and burrowing behaviour; box turtle behavioural ecology* (summer intern, independent study student, volunteer; 1 manuscript accepted; Currently environmental consultant)

Brady Boles – *Box turtle behavioural ecology* (summer intern; Currently medical doctor)

William Robinson – *Box turtle behavioural ecology; amphibian defensive behavior* (summer intern, independent study, WISE student worker; 3 manuscripts in progress, including from course-based projects; currently habitat biologist with Washington Dept of Fish and Wildlife)

Free Kashon – *Box turtle behavioural ecology* (summer intern; 1 manuscript published; obtained MS at Arkansas Tech University)

Shaun Khoo – *Scorpion defensive behaviour; box turtle behavioural ecology* (WISE student worker, summer intern)

Nick Brown – *Box turtle coloration* (WISE student worker)

Nick Morin – *Thermal dependence of mosquito/amphibian interactions* (independent study; currently medical laboratory scientist)

Bilal Jawed – *Thermal dependence of mosquito/amphibian interactions* (independent study; currently medical doctor)

Joseph Pich – *Box turtle behavioural ecology and data logger development* (summer intern; 1 manuscript published)

AJ Belden – *Box turtle behavioural ecology and data logger development* (summer intern; 1 manuscript published)

Lindsay Hagadorn – *Box turtle behavioural ecology* (summer volunteer intern)

Charles Mettler – *Invasive plant ecology* (independent study; 3 manuscripts in progress/in review, including from course-based projects; currently method development analyst at Eli Lilly)

Justin Harmeson – *Introductory GIS* (independent study; 1 manuscript in progress, from course-based project; currently land steward at NICHES Land Trust)

Chaz Rhodes – *Box turtle behavioural ecology and coloration* (summer intern; currently associate researcher at Corteva Agriscience)

Keith Klein – *Box turtle behavioural ecology and coloration* (summer intern; currently medical student at University of Illinois)

Miguel Aguirre Morales – *Automated data collection* (independent study; 1 manuscript in progress, from course-based project; currently data services consultant)

Robert Borland – *Box turtle coloration* (WISE student worker)

Jude Rodriguez – *Electronic tools in animal behavior research* (WISE student worker)

Nhan Huynh – *Invertebrate behaviour and personality research* (WISE student worker)

Thomas Kay – *Box turtle behavioural ecology and physiology* (summer intern, WISE student worker, independent study)

Bradley Johnson – *Box turtle behavioural ecology and physiology* (summer intern, independent study; currently physical therapy student)

Daren Glore – *Box turtle behavioural ecology and physiology* (summer intern)

Jacob Penrose – *Box turtle behavioural ecology and physiology* (summer intern)

Brigham Anderson – *Box turtle behavioural ecology and physiology* (summer intern; currently medical student)

Brian Dobbels – *Box turtle behavioural ecology and physiology* (summer intern)

Justin Lewis – *Box turtle and snail ecology* (summer intern)

Elijah Greene – *Box turtle and snail ecology* (summer intern)

Omar Garcia – *Box turtle behavioural ecology* (summer intern)

Quinn Fitzgerald – *Box turtle behavioural ecology* (summer intern)

Cole Shifferly – *Box turtle behavioural ecology* (summer intern)

At The Pennsylvania State University:

Supervised (or co-supervised) 25 undergraduate research assistants at Penn State University

- 2 students funded by MURE (Minority Undergraduate Laboratory Research Experience)
- 1 student funded by WISER (Women in Science and Engineering Research)
- 10 students conducted independent projects

Kelly Brossman - *Phenotypic plasticity and flexibility in newts* (2 manuscripts published, M.S. in Ecology)

Matthew Ridgway - *Adaptive color change in tadpoles*

Dan Knapp - *Adaptive color change in tadpoles*

Shannen McGinley - *Sexually dimorphic aggression in scorpions* (1 manuscript published)

Alex Pianovich - *Population differences in susceptibility of scorpions to invasive fire ants*

Jett Peng - *Ontogeny of sexual dichromatism in wood frogs*

Jillian Newman - *Hunger and the response to alarm cues in tadpoles* (1 manuscript published)

Danielle Rosenberg - *Size- and species-specific predation risk and behavioral responses in tadpoles* (Honors Thesis, 1 manuscript in preparation, now in veterinary school)

Jason Langshaw - *Responses of two plethodontid salamanders to conspecific and congeneric odor cues* (1 manuscript published)

Jared Moroskie - *First observations of courtship in Plethodon hoffmani*

15 additional students served as research assistants:

Brent Storm, Maria Utrecho, Edward Owen, Courtney Brenner, Justin Malloy, Lauren Moyer, Dayna Ukwuoma, Andrew Watts, Marie Noah, Jennie Williams, Drake McGregor, Aaron Jacobs, Hannah Herriott, Tommy Cerri, Dan Fricker

Grants

- 2024 Congdon-Dickson Research Fund, Chelonian Research Foundation (co-PI: Steve Kimble, Towson University). “Using genomic data to understand behavioral diversity and population changes at a long-term study site for Eastern Box Turtles” - \$5,000
Towson University Faculty Development & Research Committee Grant (co-PI: Steve Kimble, Towson University). “Developing Genetic Resources for Management of Threatened Turtle Populations” - \$5,916
- 2013 NSF Doctoral Dissertation Improvement Grant - \$19,370
Penn State Ecology Program Travel Award - \$200
PSU Biology Student Travel Grant - \$250
- 2012 PSU Biology Student Travel Grant - \$250
- 2011 Animal Behavior Society Student Research Award - \$981
ASIH Gaige Award - \$500
- 2010 Sigma Xi Grant-in-Aid - \$400

Non-research grants

- 2022 Indiana Department of Environmental Management Community Recycling Grant, awarded to Wabash College - \$34,920

Grants Awarded to Supervised Undergraduates:

- 2017 Wabash College Undergraduate Research Grant to Charles Mettler - \$350
- 2016 Wabash College Undergraduate Research Grant to William Robinson - \$295
Wabash College Undergraduate Research Travel Grant to Free Kashon, Shaun Khoo, and William Robinson - \$262
- 2012 Eberly College of Science Undergraduate Research Award to Jett Peng - \$333
Eberly College of Science Undergraduate Research Award to Danielle Rosenberg - \$333
- 2011 Eberly College of Science Undergraduate Research Award to Alex Pianovich - \$540
Eberly College of Science Undergraduate Research Award to Dan Knapp - \$540

- Penn State Discovery Grant to Kelly Brossman - \$2500
- 2010 Eberly College of Science Undergraduate Research Award to Kelly Brossman - \$400
Eberly College of Science Undergraduate Research Award to Matt Ridgway - \$302

Other Funding:

- 2014 Experiment.com crowdfunding for “Using turtle dogs to study wildlife diseases” (S. Kimble, M. Allender, B. Carlson, and R. Williams) - \$2636

Honors, Awards, and Fellowships

- 2013 Research Assistantship - Intercollege Graduate Degree Program in Ecology, The Pennsylvania State University. \$19,000.
Best Student Paper - Oral Presentation, Division of Animal Behavior, SICB 2013 Annual Meeting. \$250
- 2012 Honorable Mention - American Society of Naturalists Student Research Award
Huck Institutes of the Life Sciences Fellowship. The Pennsylvania State University. \$19,000
- 2010, 2011 Honorable Mention – NSF Graduate Research Fellowship
- 2009-2010 Herbert J. Bailey Endowed Graduate Fellowship. The Pennsylvania State University. \$5,000
University Graduate Fellowship. The Pennsylvania State University. \$38,000.
Ecology Graduate Award. The Pennsylvania State University. \$5,000.
Funds for Excellence in Graduate Recruitment. The Pennsylvania State University. \$2,500.
- 2009 NSF Graduate Fellowship Incentive Award. The Pennsylvania State University. \$1,000.
- 2009 Paul J. Christian Award for Excellence in Scholarship. Bethel University, \$150.
- 2007-2008 Biology Scholarship. Bethel University. St. Paul, MN.
- 2005-2008 President's Scholarship. Bethel University. St. Paul, MN.

Service

- 2024-present Member of Faculty Development Committee
- 2022-present Member/Chair of Environmental Studies Minor Steering Committee
- 2016-present Member/Chair of Environmental Concerns Committee

- 2015-present Member of Institutional Animal Care and Use Committee
- 2023-2024 Member of Scientific Integrity Committee
- 2016,19,22 Organized spring seminar series for Biology Department
- 2020-2021 External reviewer for Hanover College Biology Department
- 2019-2020 Member of Fringe Benefits Committee
- 2018-2020 Member of Undergraduate Research Celebration/Ides of August Committee
- 2019 Participant in Summer Institute on Equity in the Academic Experience (American Talent Initiative) working group and continuing Wabash College ATI working group
- 2017-2019 Participant in Quantitative Literacy working group
- 2016-2018 Member of Academic Policy Committee
- 2018 WLAIP guest instructor
- 2017-2018 Faculty advisor for Marine Life Club
- 2014-2018 Member of Newcomers Potluck Committee
- 2017 Mentor for Speaking Science program students
- 2017 WLAIP module instructor
- 2016-2017 Secretary for Division I meetings
- 2016 Hosted animal behaviour activity for student recruitment
- 2015-16 Member of Institutional Review Board
- 2014-2015 Faculty advisor to Wabash College ONE Campaign Club
- 2013-2014 Ecology Spring Seminar Series organizing committee (planning series, inviting speakers, managing speaker schedules)
- 2012, 2013 Curriculum Committee Representative for Ecology Graduate Student Organization

Academic Advising

Served as academic advisor for 34 students

Served as Doris Duke Conservation Scholar mentor

Outreach Activities

- 2019-present Host science field trip activity for Hose Elementary School class
- 2020 Led Girl Scouts on tour of box turtle habitat
- 2018 Visited Rainbows and Rhymes Preschool with animals to discuss herp biology
- 2017 Led “Reptile and Amphibian Study” Merit Badge class for Boy Scouts
- 2017 Served via email correspondence as scientific consultant for BBC nature documentary mini-series “Wild Metropolis”
- 2013 Gave presentation on arthropod ecology and behavior to inmates at Centre County Correctional Facility
- Assisted with SEECoS research experience for high school students
- Judge at Penn State Undergraduate Exhibition
- 2012 Gave presentation on arthropod behavior to inmates at Centre County Correctional Facility
- Children's science outreach at Discovery Space
- 2011 Children's science outreach hosted by WPSU studio
- Presentation on Pennsylvania herpetofauna at Bellefonte Children's Garden Club
- Judge at Pennsylvania Junior Academy of Sciences
- Sharing research with visiting high school science students
- Video-chatting with middle school science students in St. Louis, MO

Other community service

- 2024-present Member of Board of Directors of NICHES Land Trust
- 2020-2024 Member of Board of Directors of Montgomery County Free Clinic

Peer-reviewer

Amphibia-Reptilia (2), *Animal Behaviour* (3), *Asian Fisheries Science*, Axios review service, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology* (4), *Behavioural Processes*, *Canadian Journal of Zoology* (2), *Copeia*, *Current Zoology*, *Ecosphere*, *Ethology* (2), *Evolutionary Biology*, *Evolutionary Ecology*, *Herpetologica* (3), *Herpetological Conservation and Biology*, *The Herpetological Journal*, *Herpetological Review* (2), *Hydrobiologia* (3), *Journal of Arachnology*, *Journal of the Arkansas Academy of Science*, National Science

Foundation, *Nature Education*, *Oecologia* (2), *PLOS ONE*, *Proceedings of the Royal Society B*, *Reptiles & Amphibians*, SSAR volunteer manuscript reviewer for non-English speaking authors (4), *Wildlife Society Bulletin*

Most of those reviews are listed in the Publons database:

<https://publons.com/researcher/460227/bradley-e-carlson/>

Professional Memberships

Society for the Study of Amphibians and Reptiles

Tri-Beta Biological Society

References

Dr. Amanda Ingram

Colleague, Department Chair (past), and Division Chair (current)

Wabash College

Department of Biology

301 W Wabash Ave, Crawfordsville, IN 47933

E-mail: ingrama@wabash.edu

Phone: (765) 361-6389

Dr. Tracy Langkilde

PhD Advisor

The Pennsylvania State University

Department of Biology

208 Mueller Laboratory, University Park, PA 16802

E-mail: tll30@psu.edu

Phone: (814) 867-2251

Dr. Matthew P. Rowe

Undergraduate Mentor and Collaborator

University of Oklahoma

Department of Biology

730 Van Vleet Oval, Room 314

Norman, OK 73019

E-mail: mprowe@ou.edu

Phone: (405) 325-6539