**WADE ALEXANDER BOYS**

Fayetteville, AR 72701 | wadeboys@uark.edu

Curriculum Vitae

**EDUCATION**

University of Arkansas Fayetteville, AR | **PhD Biology** | 2020 - current | Dr. Michelle Evans-White

University of Arkansas Fayetteville, AR | **MS Biology** | 2017 – 2019 | Dr. Adam Siepielski

Ohio Northern University Ada, OH | **BS Environmental & Field Biology** | 2011 – 2015 | Dr. Leslie Riley, Dr. Robert Verb

**RESEARCH INTERESTS**

Freshwater ecology, species distributions, phenotypic plasticity, global change ecology,

abundance-occupancy relationships

**RESEARCH EXPERIENCE**

Research Assistant | University of Arkansas | **Occupancy patterns of lotic dragonfly species of greatest conservation need** | Fall 2022-Current

Research Assistant | University of Arkansas | **Variation and** **selection on predator-induced behavioral plasticity in *Enallagma*** | Summer 2019 – Summer 2021

Research Assistant | University of Arkansas | **Biogeography of endemic dragonflies in the Ozark and Ouachita Interior Highlands** | Spring 2017-Spring 2019

Research Assistant | University of Missouri | **Effects of neonicotinoid insecticides on aquatic invertebrates in Missouri wetlands** | Fall 2015-Fall 2016

NSF REU student | University of Kentucky | **Ecology of natricine snakes determined via passive integrated transponder (PIT) telemetry** | Summer 2014

Undergraduate Research Assistant | Ohio Northern University | **Stream community comparisons between glaciated and unglaciated regions of Ohio** | Fall 2013-Spring 2015

Undergraduate Research Assistant | Ohio Northern University | **Aquatic community colonization patterns on different types of woody debris** | Spring 2013-Spring 2015

**PROFESSIONAL EXPERIENCE**

Senior Research Assistant | University of Arkansas | August 2019 - July 2019

Greenhouse Assistant | Ohio Northern University | Fall 2014 - Spring 2014

Stormwater Management Intern | Allen Soil and Water Conservation District | Lima, Ohio | Summer 2013

**TEACHING EXPERIENCE**

**Field Skills** | Teaching Assistant | Ohio Northern University | Fall 2022.

Assistant for a five-day immersion course teaching the basics of backcountry travel and camping

**General Ecology** | Teaching Assistant | University of Arkansas | Spring 2021, 2022. Lead instructor for two laboratory courses

**Principles of Biology** | Teaching Assistant | University of Arkansas | Fall 2017, 2018, 2020, 2021, 2022. Lead instructor for two introductory laboratory courses for non-majors

**Natural History** | Teaching Assistant | Ohio Northern University | Spring 2015

Introductory field course in identifying native flora and fauna

**Geology** | Teaching Assistant | Ohio Northern University | Fall 2014

Introductory laboratory course in geological processes

**MENTORING EXPERIENCE**

**Lauren Wishard** | Undergraduate Research Technician | Summer 2017

**Zachary Bragg** | Undergraduate Research Technician | Summer 2018

**SCHOLARLY CONTRIBUTION**

***Communications****:*

1. **Boys, W.A.**, Lanzer, T.L., Ping, T.S., Tye, S.P., Siepielski, A.M. Selection favors greater predator-induced behavioral plasticity in prey activity. Society for the Study of Evolution Annual Meeting, Cleveland, Ohio (June 2022).
2. **Boys, W.A.** Dragonflies of the Interior Highlands: Natural History and Conservation. Missouri Master Naturalists, Chert Glades Chapter, regular meeting, Joplin, Missouri (March 2019)
3. **Boys, W.A.** Dragonflies of the Ozark-Ouachita Region: Natural History and Conservation. Pittsburg State University, Sperry-Galligar Audobon Society regular meeting, Pittsburg, Kansas (December 2018)
4. **Boys, W.A.**, Siepielski, A.M., Bried, J.T., Smith-Patten, B.D., Patten, M.A. Predicting the distributions of rare species using a combined model approach. Ecological Society of America Annual Meeting, New Orleans, Louisiana (August 2018).
5. **Boys, W.A.**, Webb, E.B., Kuechle, K.J., Mengel, D.C. Effects of neonicotinoid insecticides on aquatic invertebrates in Missouri Wetlands. USGS Cooperative Meeting, Columbia, Missouri (2016).
6. **Boys, W.A.**, Thomas, T.N., Timbrook, K.A., Schroeder, S.C., Verb, R.G., Riley, L.A., Jacquemin, S.J., and Keiser, T. Trophic relationship differences between glaciated and unglaciated streams in Ohio. Society of Freshwater Science Annual Meeting, Milwaukee, Wisconsin (May 2015).
7. **Boys, W.A.**, Thomas, T.N., Timbrook, K.A., Schroeder, S.C., Verb, R.G., Riley, L.A., Jacquemin, S.J., and Keiser, T. Trophic relationship differences between glaciated and unglaciated streams in Ohio. Ohio Academy of Science Annual Meeting, Columbus, Ohio (April 2015).
8. **Boys, W.A.**, Thomas, T.N., Timbrook, K.A., Schroeder, S.C., Verb, R.G., Riley, L.A., Jacquemin, S.J., and Keiser, T. Stream community comparisons between glaciated and unglaciated regions of Ohio. Society of Freshwater Science Annual Meeting, Portland, Oregon (May 2014).
9. **Boys, W.A.**, Thomas, T.N., Timbrook, K.A., Schroeder, S.C., Verb, R.G., Riley, L.A., Jacquemin, S.J., and Keiser, T. Stream community comparisons between glaciated and unglaciated regions of Ohio. Ohio Academy of Science Annual Meeting, Canton, Ohio (April 2014).

***Peer-reviewed Publications*:**

1. **Boys, W.A.**, Lanzer, T.L., Ping, T.S., Siepielski, A.M. Selection favors greater predator-induced prey behavioral plasticity. (Presented at the 2022 Evolution conference, manuscript currently being revised for submission)
2. Gómez-Llano, M., **Boys, W.A.**, Ping, T.S., Tye, S.P., Siepielski, A.M. 2022. Interactions between fitness components across the life cycle constrain competitor coexistence. *Submitted to Journal of Animal Ecology*.
3. **Boys, W.A.**, Siepielski, A.M., Smith-Patten, B.D., Patten, M.A., and Bried, J.T. 2019. Predicting the distributions of regional endemic dragonflies using a combined model approach. *Insect Conservation and Diversity, 14(1):52-66.* doi: 10.1111/icad.12444
4. Oldham, C.R., Fleckenstein, L.J. III., **Boys, W.A.**, and Price, S.J. 2016. Enhancing ecological investigations of snakes with Passive Integrated Transponder (PIT) Tag telemetry. *Herpetological Review, 47(3):385–388*.
5. Oldham, C.R., Price, S.J., **Boys, W.A.**, and Fleckenstein, L.J. III. 2015. *Regina septemvittata* (Queen Snake) defensive behavior: death feigning. *Herpetological Review, 46(2):276-277*.
6. Price, S.J., Oldham, C.R., **Boys, W.A.** and Fleckenstein, L.J. III. 2015. First record of snake fungal disease in Kentucky. *Journal of the Kentucky Academy of Science, 76(1-2):47-48*.

***General Audience Articles:***

1. **Boys, W.A.**, Siepielski, A.M., Smith, B.D., Patten, M.A., Bragg, Z.A., and Bried, J.T. 2020. Searching for endemic dragonflies to the Ozark-Ouachita Interior Highlands. *Argia, 32(1), 18-20*.
2. **Boys, W.A.** 2020. Dragon hunting in the Ozarks and Ouachitas. *Argia, 32(1), 21-22*.
3. Bried, J.T., **Boys, W.A.** 2017. The search is on for regional endemic dragonflies. *Argia, 29(1), 39*.

***Book Chapters:***

1. Siepielski, A.M., **Boys, W.A.**, Bried, J., Gómez-Llano, M., Lanzer, T. & Tye, S.P. 2021. Insect Species Coexistence and Conservation Amidst Global Change. In: *Reference Module in Earth Systems and Environmental Sciences*. Elsevier.

***Professional Societies:***

Society for the Study of Evolution | since 2022

Ecological Society of America | since 2017

Dragonfly Society of the Americas | since 2017

Society for Freshwater Science | since 2014

**AWARDS AND SCHOLARSHIPS**

$22,000 – Distinguished Doctoral Fellowship, 2020-2024

$500 - The Alongside Wildlife Foundation Small Grants Program, 2018

Mitchell Award for Botanical Research, Ohio Northern University, 2014

Beta Beta Beta National Biological Honor Society, 2014

Helena R. Hall Scholarship, Ohio Northern University, 2013

Honors Scholar Award, Ohio Northern University, 2011-2015

**PROFESSIONAL DEVELOPMENT**

Razorgrad Institute for Success & Engagement (RISE) Program | University of

Arkansas| Workshop for underrepresented graduate students | Fall 2020

Hull and Associates | Columbus, Ohio | Wetland delineation course | Fall 2013

The Ohio State University | Invasive species workshop | Fall 2013

**SERVICE**

**Board Member** – University Health Center Advisory Board | 2021-2022

**Council Member** –Graduate Student Mental Health Advisory Council | Spring 2020, Fall 2021

**Volunteer** – The Venture Out Project | Northwest Arkansas Hike Leader | Fall 2022

**Mentor** – LGBTQ+ Mentoring Program | University of Arkansas | Fall 2018, 2019, 2020

**Volunteer** – Cincinnati Nature Center | EQUIP project invasive species removal | April 2013 – 2015

**REFERENCES**

Dr. Michelle Evans-White Professor, [mevanswh@uark.edu](mailto:mevanswh@uark.edu)

University of Arkansas

Dr. Kusum Naithani Associate Professor, [kusum@uark.edu](mailto:kusum@uark.edu)

University of Arkansas

Dr. Leslie Riley Professor, [l-riley.1@onu.edu](mailto:l-riley.1@onu.edu)

Ohio Northern University

Dr. Jason Bried Illinois Natural History Survey, [bried@okstate.edu](mailto:bried@okstate.edu) University of Illinois, Urbana-Champaign