
Professional Appointments

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| Visiting Lab Instructor, University of Pittsburgh, Pittsburgh, PA | 2022–present |
| Program Assistant, University of Pittsburgh, Pittsburgh, PA | Summer 2022 |
| Post-doctoral Researcher, Carnegie Museum of Natural History, Pittsburgh, PA | 2020–2021 |
| Research Assistant, Bowling Green State University (BGSU), Bowling Green, OH | Summer 2020 |

Education

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| PhD in Biological Sciences, BGSU, Bowling Green, OH <i>Reptilian Activity, Movements, and Spatial Ecology within the Oak Openings Region</i> | 2020 |
| M.S. in Biological Sciences, BGSU, Bowling Green, OH <i>Spatial Analysis of Amphibians and Reptiles in the Oak Openings Preserve</i> | 2015 |
| B.S. Psychology and Social Science, University at Buffalo, Buffalo, NY Honors Thesis: <i>Auditory Scene Analysis in Budgerigars (<i>Melopsittacus undulatus</i>) and Zebra Finches (<i>Taeniopygia guttata</i>)</i> | 2013 |

Publications

- Sheridan, J.A., **Martin, A.K.**, James, C., & Kennedy-Gold, S.R. *In review*. Sex-specific responses to climate change in a common lizard. *Herpetol. Conserv. Biol.*
- Martin, A.K.**, & Sheridan, J.A. 2022 (*In press*). Seasonal diversity and population fluctuations at Powdermill Nature Reserve, Pennsylvania, U.S.A. *Am. Midl. Nat.* 188:212-233.
- Martin, A.K.**, & Sheridan, J.A. 2022. Body size responses to the combined effects of climate and land use changes within an urban framework. *Glob. Change Biol.* 00: 1– 4.
- Martin, A.K.**, Hughes, D.F., & Sheridan, J.A. 2021. Changes in an amphibian community at Powdermill Nature Reserve, Southwest Pennsylvania, over a 37-year period. *Ann. Carnegie Mus.* 87:157–166.
- Martin, A.K.** & Root, K.V. 2020. Examining land use changes to evaluate the effects of restoration in a complex, dynamic landscape. *Environ. Manage.* 66: 333–347.
- Martin, A.K.** 2020. Reptilian activity, movements, and spatial ecology within the Oak Openings Region (Dissertation, Bowling Green State University).
- Martin, A.K.** & Root, K.V. 2020. Challenges and opportunities for *Terrapene carolina carolina* under different climate scenarios. *Remote Sens.* 12: 836.
- Dent, M.L., **Martin, A.K.**, Flaherty, M.M. & Neilans, E.G. 2016. Cues for auditory stream segregation of birdsong in budgerigars and zebra finches: effects of location, timing, amplitude, and frequency. *J. Acoust. Soc. Am.* 139: 674–683.
- Martin, A.K.** 2015. Spatial analysis of amphibians and reptiles in the Oak Openings Preserve (Thesis, Bowling Green State University).
- Dent, M.L., Neilans, E.G., Flaherty, M.M. & **Martin, A.K.** 2013. Auditory scene analysis in budgerigars (*Melopsittacus undulatus*) and zebra finches (*Taeniopygia guttata*). *Proc. Mtgs. Acoust.* 19.010041.

Technical Reports

- Martin, A.K.** July 2018. Penn Dixie’s Rush Creek Biodiversity Assessment. Technical Report to Penn Dixie Fossil Park & Nature Reserve.
- Root, K.V. & **Martin, A.K.** June 2018. Oak Openings Region Biodiversity Model Final Report (Phase II). Report to The Nature Conservancy for Grant #10009843.

Grants (Funded & In Review)

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| In review | NSF DEB <i>Improving predictive distribution models through incorporation of size responses to climate and land use change</i> | request \$545,556 |
| 2019 | Larry & Linda Oman Graduate Scholarship | \$1,500 |
| 2019 | Katzner Graduate Student Research and Professional Development | \$1,000 |
| 2019 | Barbara Long Masters Biological Sciences Research Award | \$1,000 |
| 2017 | Mayfield Award from the Toledo Naturalists’ Association | \$300 |
| 2017 | Western New York Marv Aures/Bob Krantz Grant | \$750 |

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| 2014 | Mayfield Award from the Toledo Naturalists' Association | \$1,000 |
| 2014–2020 | Total Graduate Student Senate Professional Development Funding | \$835 |

Selected Oral Presentations – 17 Talks and 9 Posters (2013-2022)

- 2022 Amphibian Extravaganza Event (**Invited**) at Powdermill Nature Reserve: *Tandem effects of changes in both climate and land use on body size*
- 2022 The Prairie Enthusiasts (**Virtual**): *Examining land use changes to evaluate the effects of land management in a complex, dynamic landscape*
- 2021 Carnegie Discoverers (**Invited**); R.W. Moriarty Science Seminar (**Virtual**): *Tandem effects of changes in both climate and land use on body size*
- 2020 Shanklin Research Colloquium: Research Excellence Award (**2nd Place**): *Challenges and opportunities for *Terrapene carolina carolina* under different climate scenarios*
- 2019 Joint Meeting of Ichthyologists and Herpetologists: *Fine-scale reptilian movement patterns within a fragmented and heterogeneous landscape*
- 2018 Joint Meeting of Ichthyologists and Herpetologists (**Competition**): *Detecting spatial patterns of herpetofauna biodiversity in northwestern Ohio*
- 2016 WNY Herpetological Society (**Invited**): *Spatial analysis of amphibians and reptiles in the Oak Openings Preserve*

Teaching Experience

University of Pittsburgh (2022)

Lab Instructor: *Foundations in Biology BIOSC 0057 & BIOSC 0067 (LAB)*

Program Assistant: *Wyoming Spring Creek Field Studies (FIELD)*

Bowling Green State University (2013–2020)

Teaching Assistant: *Human Anatomy & Physiology I (LAB); Introduction to Biology for Majors (REC & LAB); Environment of Life (LAB) Spatial Analysis in Applied Landscape Ecology (SEMINAR)*

Guest Lecture: *Biology Today “Professional and Research Career” Conservation Biology in Practice “Biodiversity”*

Scientific Skills

Research: Project development, Data collection and database management, Statistical analysis, Supervision and mentorship of peer graduate and undergraduate students, Grant writing and acquisition of internal and external funding, Dissemination of research through presentations at local to national conferences, social media, technical reports, and publications, and multi-institutional collaboration

Laboratory, Biological, & Computer:

- Operate 2-person ATV; Biodiversity survey techniques: VES, quadrat, transect, basking and hoop nets, cover board, pitfall trapping, camera stations, acoustic bat monitoring, radio telemetry, thread trailing, fluorescent powder, PIT tag, toe-clip, shell notch; GPS; Morphometric and environmental data collection; Northeastern & Midwestern herpetofauna species identification; Wildlife permit acquisition; Animal husbandry; Certified PADI Scuba Diver and Junior Underwater Naturalist
- Lab Archives, Canvas, ESRI ArcMap, ENVI, QGIS, JMP, FRAGSTATS, MaxEnt software, R Studio, Anlook Bat Identification, Microsoft Office
- Micropipette, DNA extraction, PCR, gel electrophoresis, barcoding and sequencing analysis

Scientific Service

Peer Reviewer for *PLoS ONE, Land, Sustainability, Environmental Monitoring and Assessment*; Outreach and education events at CMNH and Hancock Parks; Event Supervisor for NW Science Olympiad; Amphibians & Reptiles Brochure Editor for Powdermill Nature Reserve