Nicholas A. Huron

Ecologist • Data Scientist
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Throughout my life, I have been told that I have a 'fixer's mindset', and it is this attraction to improving and building that shapes my career choices. My goal is to work with world-class organizations to address global problems by harnessing the power of data and clearly conveying solutions that will allow humanity to better steward the Earth.

Education

2022 Ph.D. Biology (successfully defended 14 July 2022), Temple University
2013 B.S. Biology (Magna Cum Laude), Pepperdine University

Skills

- R statistics program (data visualization; function, script, and package dev.; R Markdown report writing)
- Git and Github version control and integration
- Geographic Information Systems software (ArcGIS and qGIS)
- Bash command line, Python
- Ecological Niche Modeling (e.g., Maxent, ensemble methods)
- Adobe creative suite (acrobat, illustrator, indesign, and photoshop)
- Ecological survey techniques, lab safety protocols
- Proficient in German

Experience

2017–2022 *Graduate Researcher*, Integrative Ecology Lab
- *Dissertation*: "Building frameworks for understanding invasions and extinctions for biodiversity science"
- Research Assistant: "Predicting establishment and impact of spotted lanternfly on trees across the USA", United States Department of Agriculture
- Research Assistant: "An integrative approach to model, predict and control the spotted lanternfly invasion meltdown in Pennsylvania", Pennsylvania Department of Agriculture

2014–2020 *Graduate Teaching Assistant*, Temple University (TU) and University of Oklahoma (OU)
- Introductory Biology Lab (2 TU, 3 OU semesters)
- Principles of Ecology (1 TU semester)
- Field Herpetology (1 OU summer)

2014–2017 *Research Assistant*, Cameron Siler Lab
- Conduct international fieldwork to study Philippine herpetofauna
- Lead fieldwork and data collection on "Tracking the Emergence of Infectious Disease Among Amphibian Species of Greatest Conservation Need—Amphibian Surveys of Wildlife Management Areas in Oklahoma to Determine Current Distribution, Status, and Health of Native Communities" grant, Oklahoma Department of Wildlife Conservation

2015–2016 *Herpetology/Mammalogy Curatorial Assistant*, Sam Noble OK Museum of Natural History
- Update taxonomy and reorganize specimen collections
- Survey, catch, and process vouchered specimens for herpetology collection deposition
- Digitize and review specimen records in collection databases (morphology, locality, etc.)

2009–2014 *Research Assistant*, Rodney Honeycutt and Lee Kats Labs, Pepperdine University
- Use molecular techniques to analyze population phylogeography of *Taricha torosa*
- Study behavioral ecology in Santa Monica Mts. (SMM) and La Selva Research Station
- Organize, lead, and digitize stream surveys of SMM for USGS and CA Park Services
- Write research proposals, review literature, and provide expert feedback on manuscripts

2013–2013 *Restoration Ecologist*, Mountains Restoration Trust
- Co-lead invasive crayfish removal project at Tapia Park (Malibu Creek)
- Supervise trapping, data collection, and removal of invasive *Procambarus clarkii*
- Lead invasion ecology education project (hybrid format)

Awarded Funds

2019 ($76,890.00) *US Dept. of Agriculture*: Predicting establishment and impact of spotted lanternfly on trees across the USA (Co-written with and submitted by Matthew Helmus)
2018 ($300.00) *American Society of Icthyologists and Herpetologists*: Storer Award (Conservation)
2015 ($200.00) *Society for the Study of Amphibians and Reptiles*: Henri C. Seibert Award (Ecology)
($1,187.50) *Misc. University of Oklahoma Graduate Studies and research travel grants*

Selected Publications

5. **Huron, NA**, Behm, JE, Helmus, MR. 2022. Paninvasion severity assessment of a U.S. grape pest to disrupt the global wine market. Communications Biology, 5:1–11. doi:10.1038/s42003-022-03580-w.

4. Warren, DL, Matzke, NJ, Cardillo, M, Baumgartner, J, Beaumont, LJ, Turelli, M, Glor, R, **Huron, NA**, Simões, M, Iglesias, TL, Piquet, JC, Dinnage, R. 2021. ENMTools 1.0: an R package for comparative ecological biogeography. Ecography. doi:10.1111/ecog.05485.

3. Siler, CD, Davis, DR, Freitas, ES, **Huron, NA**, Geheber, AD, Watters, JL, Penrod, ML, Papeş, M, Amrein, A, Anwar, A, Cooper, D, Hein, T, Manning, A, Patel, N, Pinaroc, L, Diesmos, AC, Diesmos, ML, Oliveros, CH, Brown, RM. 2016. Description of a new species of Slender Skink of the *Brachymeles bonitae* Complex (Reptilia: Squamata: Scincidae) from the northern Philippines. Zootaxa, 4132:15–29. doi:10.11646/zootaxa.4132.1.2.

2. **Huron, NA**, Realubit, NDC, Cobb, KA, Brown, JC, Bergmann, P, Morinaga, G, Diesmos, AC, Diesmos, ML, Brown, RM, Siler, CD. 2016. Discovery of new island populations of the recently described False Geckos (*Pseudogekko pungkaypinit* and *Pseudogekko ditoy*): Conservation implications for the eastern Philippines. Herpetological Review, 47:1–4. PDF.

1. Diesmos, AC, Waters, JL, **Huron, NA**, Davis, DR, Alcala, AC, Crombie, RI, Afuang, LE, Gee-Das, G, Sison, RV, Sanguila, MB, Penrod, ML, Labonte, MJ, Davey, CS, Leone, EA, Diesmos, ML, Sy, EY, Welton, LJ, Brown, RM, Siler, CS. 2015. Amphibians of the Philippines, part I: checklist of the species. Proceedings of the California Academy of Sciences, 62:457–539. Google Scholar.

Presentations

2020 Ecological Society of America Annual Meeting, Virtual Meeting (U.S.A.)
2018 Joint Meetings of Ichthyologists and Herpetologists, Univ. of Rochester (Rochester, NY)
2018 Mid-Atlantic Ecological Society of America, Rutgers Univ. - Newark Campus (Newark, NJ)
2015 Society for the Study of Amphibians and Reptiles, Univ. of Kansas (Lawrence, KS)
2010–2013 Southern California Conference of Undergraduate Research (SCCUR), CA

Comprehensive Curriculum Vitae available upon request.

References

Dr. Matthew R. Helmus
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