Nicholas A. Huron

Doctoral Student
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Education

2022 Ph.D. in Biology (Anticipated August 2022)
Temple University
Advisor: Dr. Matthew Helmus

2013 B.S. in Biology
Pepperdine University
Magna Cum Laude

Academic Positions

2017– *Graduate Student*, Integrative Ecology Lab
• Thesis: "Biodiversity science in the Anthropocene: Building frameworks for understanding invasions and extinctions"
• 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

2014–2017 *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.)

2013–2014 *Research Assistant*, Pepperdine University
• Organize and lead annual stream surveys of SMM streams
• Provide critical feedback on studies prior to journal submission
• Compile and digitize >20 year old amphibian survey dataset

2009–2014 *Research Student*, Rodney Honeycutt and Lee Kats Labs
• Use molecular techniques to analyze population phylogeography of *Taricha torosa*
• Investigate behavioral ecology in Santa Monica Mountains (SMM) streams and the La Selva Research Station rainforest in Costa Rica
• Conduct regular stream surveys in the SMM for USGS and State Park Services
• Annual presentation of current research at SCCUR (see below for list)

2013–2013 *Restoration Ecologist*, Mountains Restoration Trust (MRT)
- Co-lead invasive crayfish removal project (CRP) at Tapia Park (Malibu Creek)
- Supervise trapping, characterization, and removal of invasive *Procambarus clarkii*
- Lead invasion ecology education side project via remote video and in person instruction
- Manage the CRP dataset and collaborate with local scientists

Teaching Experience

2019 *Principles of Ecology*, Temple University (TA, 1 semester)
2018–2020 *Introduction to Organismal Biology*, Temple University (TA, 2 semesters)
2016 *Field Herpetology*, University of Oklahoma (TA, 2 week summer course)
2014–2016 *Introductory Biology labs*, University of Oklahoma (TA, 3 semesters)
2010–2013 *Introductory Biology courses*, Pepperdine University (Undergraduate TA, 7 semesters)

Research Grants

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*

Publications

9. **Huron, NA**, Helmus, MR. *in prep*. Predicting establishment and impact of spotted lanternfly on trees across the USA.

8. **Huron, NA**, Hedges, SB, Helmus, MR. *in prep*. Anthropocene extinction on an adaptive landscape: Shifting loss in a genus of island lizards.

7. **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. https://doi.org/10.1038/s42003-022-03580-w.

6. 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.

5. Marhanka, EC, Watters, JL, **Huron, NA**, McMillin, SL, Winfrey, CC, Curtis, DJ, Davis, DR, Farkas, JK, Kerby, JL, Siler, CD. 2017. Detection of high prevalence of *Batrachochytrium dendrobatidis* in amphibians from southern Oklahoma, USA. Herpetological Review 48:70–74. Google Scholar.

4. 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.

3. **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.

2. 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.

1. Davis, DR, Watters, JL, Köhler, G, Whitsett, C, **Huron, NA**, Brown, RM, Diesmos, AC, Siler, CD. 2015. Redescription of the rare Philippine slender gecko *Pseudogekko brevipes* (Reptilia: Squamata: Gekkonidae) and description of a new species. Zootaxa, 4020:357–374. doi:10.11646/zootaxa.4020.2.7.

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

Skills

Computer

- R statistics program (data visualization; function, script, and package dev.; R Markdown report writing)
- Git and Github version control and integration (Intermediate)
- Bash command line (Intermediate)
- Geographic Information Systems software (ArcGIS and qGIS)
- Ecological Niche Modeling (e.g., Maxent, ensemble methods)
- Python (Novice)
- Adobe creative suite (Intermediate: acrobat, illustrator, indesign, and photoshop)
- Microsoft Office and Google Docs Editors

Professional

- Writing and critical peer-review of scientific literature
- Proficient in German and limited experience with Tagalog (conversational)

Lab and Fieldwork

- Amphibian/reptile field collection, specimen vouchering, care, and husbandry
- Ecological survey techniques (e.g., Stream Health Biotic Index)
- Lab safety and general genetic sequencing (tissue extraction, PCR, gel electrophoresis)

Professional Memberships

Am. Soc. of Ichth. and Herp., Ecol. Soc. of Am., Herp. League, Soc. for Study of Amph. and Rept.

Mentorship

***Temple University**, Undergraduate*
Alexa Gordon, Rabbika Rafiu, Hajra Sohail, Thomas Thompson

Comprehensive Curriculum Vitae and References available upon request.