

Nicholas A. Huron

Doctoral Student

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Education

- 2022 Ph.D. in Biology (Anticipated)
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: “Disentangling the relationship between changing biodiversity and species interactions: how did we get here and where are we going?”
- 2020– *Research Assistant*: “Predicting establishment and impact of spotted lanternfly on trees across the USA”, United States Department of Agriculture
- 2019 *Research Assistant*: “An integrative approach to model, predict and control the spotted lanternfly invasion meltdown in Pennsylvania”, Pennsylvania Department of Agriculture
• Lead and attend weekly meetings towards building a comprehensive model of spread for the spotted lanternfly
• Development of a spatially explicit model of abiotic suitability for spotted lanternfly across the U.S.A. and world
• Aggregation and tidying of broad scale spatial and trade data
- 2014–2017 *Research Assistant*, Cameron Siler Lab
• Study of the biodiversity and systematics of Philippine herpetofauna
• Specimen/tissue curation for research in the Sam Noble Oklahoma Museum of Natural History (SNOMNH)
- 2017–2017 *Research Assistant*: “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”, Oklahoma Department of Wildlife Conservation
• Lead expeditions to collect data for amphibians throughout Oklahoma
• Subsample and prepare tissues for infectious disease screening
• Curate and catalogue vouchered specimens in SNOMNH
- 2015–2016 *Herpetology Curatorial Assistant*, Sam Noble OK Museum of Natural History
• Conduct relabeling to update collection taxonomy
• Survey, catch, and process specimens for deposition in collection
• Entry/review of specimen collection database (morphology, locality, etc.)

- 2015–2015 *Mammology Curatorial Assistant*, Sam Noble OK Museum of Natural History
- Inventory/validate records for current specimens in the mammal collection
 - Entry of specimen data (morphology, locality, etc.) into collection database
- 2013–2014 *Research Assistant*, Pepperdine University
- Organize and carry out annual stream surveys of SMM streams
 - Provide critical feedback on studies prior to journal submission
 - Compile data into a central database of amphibian surveys that began in 1991
 - Meet weekly with supervisor to discuss research projects
- 2013–2014 *Administrative Assistant*, Pepperdine University
- Assist the Vice Provost for Research with the Waves of Innovation funding program
 - Final review proposals, presentations, and official documents before submission
 - Interact with high profile University members and coordinate committee meetings
- 2013–2014 *Research Student*, Rodney Honeycutt Lab
- Use genetic lab techniques to analyze population phylogeography
 - Study local populations of *Taricha torosa*
- 2009–2014 *Research Student*, Lee Kats Lab
- Investigate behavioral ecology in the streams of the Santa Monica Mountains (SMM) and the rainforest of the La Selva Research Station in Costa Rica
 - 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)
- Head up the 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 data set and collaborate with local scientists
- 2009–2013 *Office Assistant*, Pepperdine University Seaver Dean's Office
- Greet visitors, digitize documents, and facilitate interdepartmental communications
 - Assist event preparation for faculty/research award ceremonies
 - Support the aforementioned events in person and provide presentation technical support

Research Interests

Community Ecology, Biodiversity and Systematics, Conservation Biology, Herpetology, and Invasion Ecology

Teaching Experience

- 2019 *Principles of Ecology*, Temple University (TA, 1 semester)
- 2018–2020 *Introduction to Organismal Biology*, Temple University (TA, 2 semesters)
- 2016 *Introductory Biology: Molecules, Cells, and Physiology*, University of Oklahoma (TA, 1 semester)
- 2016 *Field Herpetology*, University of Oklahoma (TA, 2 weeks)
- 2015 *Human Physiology*, University of Oklahoma (TA, 1 semester)
- 2014 *Introductory Zoology*, University of Oklahoma (TA, 1 semester)
- 2012 *Introduction to Ecology*, Pepperdine University (Undergraduate TA, 1 semester)
- 2011–2012 *Keck Research Seminar*, Pepperdine University (Student Mentor, 2 semesters)
- 2010–2013 *Cellular Biology*, Pepperdine University (Undergraduate TA, 4 semesters)
- 2010–2011 *General Chemistry*, Pepperdine University (Tutor, 2 semesters)

Research Grants

- 2019 (\$76,890.00) *United States Department of Agriculture*: Predicting establishment and impact of spotted lanternfly on trees across the USA (coPIs: Matthew R. Helmus)
- 2018 (\$300.00) *American Society of Ichthyologists and Herpetologists*: Storer Award (Conservation)
- 2017 (\$150.00) *University of Oklahoma Graduate Student Senate*: Research Grant
- 2015 (\$562.50) *University of Oklahoma Graduate Student Senate*: Research Grant
- 2015 (\$200.00) *Society for the Study of Amphibians and Reptiles*: Henri C. Seibert Award (Ecology)
- 2015 (\$475.00) *University of Oklahoma Department of Biology*: L. G. Hill Zoology Excellence Fund

Publications

12. **Huron, NA**, Hedges, SB, Helmus, MR. *in prep.* Anthropocene extinction on an adaptive landscape: Shifting loss in a genus of island lizards.
11. **Huron, NA**, Behm, JE, Helmus, MR. *in review.* Paninvasion severity assessment of a US grape pest to disrupt the global wine market. doi:10.1101/2021.07.19.452723.
10. 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*.
9. 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.
8. 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.
7. **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.
6. 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.
5. Davis, DR, Sanguila, MB, Brown, JC, Brown, RM, Cobb, KA, Bergmann, P, Morinaga, G, **Huron, NA**, Watters, JL, Siler, CD. 2015. Natural History Notes: *Pseudogekko ditoy* (Leyte Diminutive False Gecko) Morphology. *Herpetological Review*, 46:634.
4. Heitz, BB, Ellsworth, ED, **Huron, NA**, Geheber, AD, Siler, CD. 2015. Geographic Distribution: *Sonora semiannulata* (Variable Groundsnake). *Herpetological Review*, 46:577.
3. Sanguila, MB, Realubit, NDC, Diesmos, ML, Lorenzo II, A, De Layola, A, Brown, JC, Cobb, KA, Bergmann, P, Morinaga, G, Freitas, ES, **Huron, NA**, Watters, JL. 2015. Geographic Distribution: *Pelophryne lighti* (Mindanao Flathead Toad). *Herpetological Review*, 46:380.

2. Realubit, NDC, Diesmos, ML, Lorenzo II, A, De Layola, A, Diesmos, AC, Brown, JC, Brown, RM, Cobb, KA, Bergmann, P, Morinaga, G, Siler, CD, **Huron, NA**, Siler, JM. 2015. Geographic Distribution: *Draco Mindanensis* (Mindanao Flying Lizard). *Herpetological Review*, 46:216.
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.

Presentations

2020	Ecological Society of America Annual Meeting, Virtual Meeting (U.S.A.)
2018	Joint Meetings of Ichthyologists and Herpetologists, University of Rochester (Rochester, NY U.S.A.)
2018	Mid-Atlantic Ecological Society of America Conference, Rutgers University - Newark Campus (Newark, NJ U.S.A.)
2015	Society for the Study of Amphibians and Reptiles Meeting, University of Kansas (Lawrence, KS U.S.A.)
2013	Southern California Conference of Undergraduate Research (SCCUR), Whittier College (Whittier, CA U.S.A.)
2012	SCCUR, California State University Channel Islands (Camarillo, CA U.S.A.)
2011	SCCUR, Mt. San Antonio College (Walnut, CA U.S.A.)
2010	SCCUR, Pepperdine University (Malibu, CA U.S.A.)

Honors, Awards, and Fellowships

2017–	Temple University Fellowship
2013	Selection for Who's Who in American Universities and Colleges
2012–2013	Blanche E. Seaver Faculty Scholarship
2011–2013	Pepperdine University Natural Science Award
2011–2012	Pepperdine University Seaver College Faculty/Staff Scholarship
2010	Seaver College Dean's List (2 Semesters)
2010	Phi Eta Sigma Honor Society Induction

Skills

Computer

- R statistics program (data visualization; development of functions, scripts, and packages)
- Geographic Information Systems software (ArcGIS and qGIS)
- Ecological Niche Modeling (Maxent, Ensemble Methods)
- Git and Github version control and integration (Intermediate)
- Zotero citation management
- Adobe creative suite (Intermediate: acrobat, illustrator, indesign, and photoshop)
- Bash command line (Intermediate)
- Python (Novice)
- Presentation and A/V set-up
- Microsoft Office
- Document copier and scanning

Professional

- Management of undergraduate students
- Writing and critical peer-review of scientific literature

Lab and Fieldwork

- Amphibian/reptile field collection (destructive/non-destructive tissue sampling, specimen preparation, *Batrachochytrium dendrobatidis*/*ranavirus* swabbing, eDNA collection)
- Ecological survey techniques (e.g., Stream Health Biotic Index)
- Amphibian/Reptile care and husbandry
- Lab safety and general genetic sequencing (tissue extraction, PCR, gel electrophoresis)

Language

- Proficient in conversational German
- Limited experience with conversational Tagalog

Professional Memberships

2018	Ecological Society of America
2015	Society for the Study of Amphibians and Reptiles (SSAR)
2015	The Herpetologists' League (HL)
2013	American Society of Ichthyologists and Herpetologists (ASIH)

Mentorship

Temple University, Undergraduate

2021–	Hajra Sohail
2020–	Rabbika Rafiu
2017–2019	Alexa Gordon
2017–2018	Thomas Thompson

Outreach and Service

2014–2017	Sam Noble Oklahoma Museum of Natural History <ul style="list-style-type: none">• Assist in coordination of the Department of Herpetology annual public events• Mentoring of undergraduate research volunteers in the Department of Herpetology• Identify collected specimens and interface with public during the annual Oklahoma Bioblitz
2011–	Sigma Phi Epsilon national social fraternity (alumnus) <ul style="list-style-type: none">• Member of the California Psi chapter• Vice President of Recruitment (2012 calendar year)• Semesterly trips to build homes in Tecate, Mexico (Club Dust)• Annual philanthropy to benefit YouthAIDS
2009–2013	Pepperdine University GreenTeam <ul style="list-style-type: none">• Member and volunteer• Helped initiate “Trayless Tuesday” to increase environmental awareness