

Nicholas A. Huron

Data Scientist • Ecologist

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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, 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
- Bash command line, SQL, Python
- Geographic Information Systems software (ArcGIS and qGIS)
- Ecological Niche Modeling (e.g., Maxent, ensemble methods)
- Adobe creative suite (acrobat, illustrator, indesign, and photoshop)

Experience

- 2022– *Data Scientist*, Data Analytics, CCS Fundraising
- Request, sanitize/tidy, and validate myriad relational database exports to ensure appropriately scoped data
 - Develop and present bespoke predictive modeling and year-over-year trend analysis reports to identify fundraising opportunity in client databases
 - Transform analytics products from old GUI-based tools to reproducible R ecosystem
 - Propose and deliver professional presentations on data cleaning and maintenance
- 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

- 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 Ichthyologists and Herpetologists*: Stoye Award (Conservation)
- 2018 (\$225.00) *Temple University Biology Graduate Student Society*: Travel Award
- 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**, Hedges, SB, Helmus, MR. 2022. Detecting stabilizing, directional, and disruptive patterns of anthropogenic species loss with general models of nonrandom extinction. *bioRxiv*. doi:10.1101/2022.09.11.507476.
4. **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.
3. 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.
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 and references available upon request.