

MAX R. LAMBERT (HE/HIM/HIS), PH.D.
CURRICULUM VITAE

Science Division, Habitat Program, Washington Department of Fish & Wildlife
Natural Resources Building, 1111 Washington St SE, Olympia, WA 98501
Phone: 619.990.7242 – Email: lambert.mrm@gmail.com –
Website: <https://lambertmr.wordpress.com/> – Twitter: @MaxRLambert

EDUCATION

Ph.D. in Urban Aquatic Ecology and Evolution (2018)

School of Forestry and Environmental Studies (now School of the Environment), Yale University
Dissertation Title: *Sex in the suburbs: the genetic and environmental drivers of sex determination in amphibians*

Thesis Committee: David Skelly (chair), Oswald Schmitz, and Gunter Wagner

M.S. School of Forestry and Environmental Studies, Yale University. 2013.

B.S. Wildlife, Fish, and Conservation Biology (Honors), University of California, Davis. 2011

PROFESSIONAL POSITIONS

Aquatic Research Section Manager

(March 01, 2021 – present)

Science Division, Habitat Program
Washington Department of Fish & Wildlife

Postdoctoral Fellow

(September 01, 2019 – March 01, 2021)

David H. Smith Fellowship, Society for Conservation Biology
Mentors: Marina Alberti (University of Washington)
Laura Guderyahn (City of Portland)
Priya Nanjappa (Conservation Science Partners)
Bree Rosenblum (UC Berkeley)

Postdoctoral Scholar

(October 15, 2018 – September 01, 2019)

National Science Foundation, Rosenblum Lab
University of California, Berkeley

Curatorial Assistant

(August 2011 – May 2018)

Peabody Museum of Natural History
Yale University

ACADEMIC EDITORSHIP

Ecological Solutions and Evidence (Handled 6 articles to-date) (2020 - present)

PeerJ (Handled 27 articles to-date) (2019 - present)

FUNDING

Chehalis Basin Aquatic Species Plan Research & Implementation (2021-23 biennium)	~\$2,000,000.00
Northern California Herpetological Society	\$1,000.00
David H. Smith Fellowship, Society for Conservation Biology	\$150,000.00
NSF PRFB Fellowship using collections DBI-1907109 (declined for Smith Fellowship)	\$138,000.00
National Science Foundation – Research Coordination Network Eco-Evolutionary Dynamics in an Urban Planet	\$498,817.00

Collaborator: Lambert, PI: Marina Alberti

Role: I developed and wrote the grant's hypotheses & predictions

Ginsberg Fund (2017-2019)	\$7,075.00
NSF Doctoral Dissertation Improvement Grant (2017-2018)	\$21,763.00
Yale Natural Lands Grant (2016-2017)	\$6,069.92
Yale Natural Lands Grant (2015-2016)	\$4,460.88
Garden Club of America – Coastal Wetlands Studies Award (2014)	\$5,000.00
Yale Institute for Biospheric Studies Doctoral Seed Grant (2014)	\$4,420.00
Yale Institute for Biospheric Studies Masters Student Grant (2012)	\$2,500.00
PetriDish Crowd-Funding Campaign	\$7,220.00
Quinnipiac River Fund	\$10,500.00
Northern California Herpetological Society (Summer 2012)	\$300.00
Yale Center for Reproductive Ecology (2012)	\$5,000.00
Research Fellow: Hixon Center for Urban Ecology (2012-2013)	\$6,800.00
Class of 1980 (via Yale Forestry and Environmental Studies 2012)	\$1,810.00
Carpenter/Sperry Matching Fund (2011-2012)	\$2,500.00
Yale F&ES Top Research Proposal (2011-2012)	\$500.00
Schiff Fund for Wildlife Research (2011-2012)	\$4,000.00

PEER-REVIEWED PUBLICATIONS

Google Scholar Profile: <https://scholar.google.com/citations?user=Ypb70iUAAAAJ&hl=en>

*signifies equal authorship

†signifies undergraduate student author

‡signifies masters student author

36. Behavioral plasticity can facilitate evolution in urban environments. *In Review*. Caspi, T. Johnson, J. **Lambert, M. R.**, Schell, C. J., and A. Sih. *Trends in Ecology & Evolution*.
35. MacGuigan, D., Mount, G., Watkins-Colwell, G., Near, T., and **Lambert, M. R.** *Under Revision*. Isolation-by-distance dominates phylogeography and confounds species delimitation in a wide-ranging frog (*Rana clamitans*). *Systematic Biology*.
34. **Lambert, M. R.**, Roddy, A., Gosser, C. †, Metler, C. †, Robinson, W. L. †, and B. E. Carlson. *Under Revision*. Climate change and phylogeny shape the sexual demography of North America's reptiles. *Nature Ecology & Evolution*.
33. Packer, M. and **M. R. Lambert**. *Under Revision*. What's gender got to do with it? Dismantling the human hierarchies in evolutionary biology and environmental toxicology for scientific and social progress. *The American Naturalist*.
32. Freni, O., Freni, J., Anderson, C. D., Hallock, L., **Lambert, M. R.**, Van Gilder, N., Wake, D. B., and E. L. Jockusch. *In Press*. First record of a slender salamander (genus *Batrachoseps*) introduced to Washington State and molecular source identification from San Francisco, CA. *Northwestern Naturalist*.

31. **Lambert, M. R.**, Ezaz, T., and D. K. Skelly. 2021. Sex-biased mortality and sex reversal regulate wild frog sex ratios. *Frontiers in Ecology and Evolution*. DOI:10.3389/fevo.2021.756476
30. **Lambert, M. R.**, Hernández-Gómez, O., Krohn, A. R., Mutlow, A., Patterson, L., Rosenblum, E. R., Timmer, M., Willis, J., and J. Bushell. *In Press*. Turtle Shell Disease fungus (*Emydomyces testavorans*): first documented occurrence in California and prevalence in free-living turtles. *Ichthyology and Herpetology*. DOI:10.1643/h2020151
29. Uetz, P., Koo, M. S., Aguilar, R., Brings, E., Catenazzi, A., Chang, A. T., Chaitanya, R., Gross, J., Hammgermann, M., Hosek, J., **Lambert, M.**, Sergi, Z., Spencer, C. L., Summers, K., Tarvin, R., Vredenburg, V. T., and D. B. Wake. 2021. A quarter century of reptile and amphibian databases. *Herpetological Review* 52: 246-255.
28. **Lambert, M. R.**, Brans, K. I., Des Roches, S., Donihue, C. M., and S. E. Diamond. 2021. Adaptive evolution in cities: progress and misconceptions. *Trends in Ecology & Evolution*. DOI: 10.1016/j.tree.2020.11.002
27. Borrelle, S. B., Koch, J. B., McDonough MacKenzie, C., Ingeman, K. E., McGill, B. M., **Lambert, M. R.***, Belasen, A. M., Dudney, J., Chang, C., Teffer, A. K., and G. C. Wu. 2020. What does it mean to be *for* a place? *Pacific Conservation Biology*. DOI:10.1071/PC20015
26. Schell, C. J., Dyson, K., Fuentes, T. L., Des Roches, S., Harris, N. C., Miller, D. S., Woelfle-Erskine, C. A., and **M. R. Lambert**. 2020. The ecological and evolutionary consequences of systemic racism in urban environments. *Science*. DOI:10.1126/science.aay4497
25. Des Roches, S., Brans, K. I., **Lambert, M. R.**, Rivkin, L. R., Savage, A. M., Schell, C. J., Correa, C., De Meester, L., Diamond, S. E., Grimm, N. B., Harris, N. C., Hendry, A. P., Govaert, L., Johnson, M. T. J., Munshi-South, J., Palkovacs, E. P., Szulkin, M., Urban, M. C., Verrelli, B. C., and M. Alberti. 2020. Socio-eco-evolutionary dynamics in cities. *Evolutionary Applications*. DOI:10.1111/eva.13065
24. **Lambert, M. R.** and C. M. Donihue. 2020. Urban biodiversity management using evolutionary tools. *Nature Ecology & Evolution*. DOI:10.1038/s41559-020-1193-7
23. **Lambert, M. R.***, Womack, M. C.*, Byrne, A. Q., Grundler, M. R., Hernandez-Gomez, O., Noss, C. F., Rothstein, A. P., Blackburn, D. C., Collins, J. P., Crump, M. L., Koo, M. S., Nanjappa, P., Rollins-Smith, L., Vredenburg, V. T., and E. B. Rosenblum. 2020. Response to Scheele et al.: The amphibian chytrid crisis remains data deficient. *Science* 367. DOI:10.1126/science.aay1838

- Reanalysis of Scheele et al. (2019) demonstrating insufficient data in this study linking infectious disease by the chytrid fungus to the decline and extinction of 501 amphibian species
22. Monk, J. D., *Giglio, E., *Kamath, A., ***Lambert, M. R.** and *C. McDonough. 2019. An alternative hypothesis for the evolution of same-sex sexual behavior in animals. *Nature Ecology & Evolution* DOI:10.1038/s41559-019-1019-7

- Recommended by Faculty of 1000 (F1000): <https://facultyopinions.com/prime/736924907>

21. Mossman, A.[†], **Lambert, M. R.**, Wikle, J.[‡], Ashton, M., and M. Duguid. 2019. Not all amphibians are created equal: differential responses of salamanders and newts across a shelterwood timber harvest chronosequence. *PeerJ* DOI:10.7717/peerj.7604
20. **Lambert, M. R.**, Screen, R.[†], McKenzie, J.[†], Clause, A., Johnson, B., Mount, G., Rollins, H., Pauly, G. and H. B. Shaffer. 2019. Experimental removal of introduced slider turtles offers new insight into competition with a native, threatened turtle. *PeerJ* DOI:10.7717/peerj.7444
19. **Lambert, M. R.** and D. A. Steen. 2019. (Re)examining the effects of urbanization on the population structure of freshwater turtles across the United States. *Conservation Biology* DOI: 10.1111/cobi.13397

- Reanalysis of Bowne et al. (2018) demonstrating spurious effects of roads and urbanization on turtle population sex ratios due to issues with field study design and analysis.
18. Van Acker, M.[‡], **Lambert, M. R.**, Schmitz, O. J., and D. K. Skelly. 2019. Suburbanization increases echinostome infection in green frogs and snails. *EcoHealth* DOI:10.1007/s10393-019-01427-1
17. **Lambert, M. R.**, Tran, T.[†], Kilian, A., Ezaz, T., and D. K. Skelly. 2019. Molecular evidence for sex reversal in wild populations of green frogs (*Rana clamitans*). *PeerJ*: DOI 10.7717/peerj.6449
16. Ogata, M., **Lambert, M. R.**, Ezaz, T., and I. Miura. 2018. The evolution of sex determination preferentially converged on ZZ-ZW type from admixing of XX-XY and ZZ-ZW types in a frog species. *Molecular Ecology*: DOI:10.1111/mec.14831
15. **Lambert, M. R.**, Smylie, M. S., Roman, A. J.[‡], Freidenburg, L. K., and D. K. Skelly. 2018. Sexual and somatic development of wood frog tadpoles along a thermal gradient. *Journal of Experimental Zoology*: DOI:10.1002/jez.2172
14. **Lambert, M. R.**, Carlson, B. E., Smylie, M. S., and L. N. Swierk. 2017. Ontogeny of sexual dichromatism in the explosively breeding wood frog. *Herpetological Conservation and Biology* 12: 447-456.
13. Holgerson, M. A., **Lambert, M. R.**, Freidenburg, L. K., and D. K. Skelly. 2017. From land conversion to wastewater incursion: suburbanization transforms small pond ecosystems. *Canadian Journal of Fisheries and Aquatic Sciences* DOI: 10.1139/cjfas-2016-0526
12. **Lambert, M. R.** and T. M. Edwards. 2017. Hormonally active phytochemicals and vertebrate evolution. *Evolutionary Applications* (Invited Synthesis – special issue on Evolutionary Toxicology). DOI: 10.1111/eva.12469
11. **Lambert, M. R.**, Stoler, A. B., Smylie, M. S., Relyea, R. A., and D. K. Skelly. 2016. Interactive effect of road salt and leaf litter on wood frog sex ratios and metamorphic sexual size dimorphism. *Canadian Journal of Fisheries and Aquatic Sciences*: DOI: 10.1139/cjfas-2016-0324
10. **Lambert, M. R.**, Skelly, D. K., and T. Ezaz. 2016. Sex-linked markers in the North American green frog (*Rana clamitans*) developed using DArTseq elucidate Dmrt1 as a putative sex-determining gene and provide early insight into sex chromosome evolution. *BMC Genomics* 17: 844 DOI 10.1186/s12864-016-3209-x

9. **Lambert, M. R.** and D. K. Skelly. 2016. Chemical diversity and endocrine disruption in the wild. *Endocrine Disruptors* (Invited Commentary). DOI:10.1080/23273747.2016.1148803
8. **Lambert, M. R.**, Giller, G. S. J.[‡], Skelly, D. K., and R. G. Bribiescas. 2016. Septic systems, but not sanitary sewer lines, are associated with elevated estradiol in frog metamorphs from suburban ponds. *General and Comparative Endocrinology* 232: 109-114.
7. **Lambert, M. R.** 2015. Clover root exudate produces male-biased sex ratios and accelerates male metamorphic timing in wood frogs. *Royal Society Open Science* 2: <http://dx.doi.org/10.1098/rsos.150433>
6. Yu, T. L. and **M. R. Lambert**. 2015. Conspecific visual cues: the relative importance of interference and exploitation competition among tadpoles of *Rana kukunoris*. *Ethology, Ecology, and Evolution* 2015: 1-7.
5. **Lambert, M. R.**, Giller, G. S. J.[‡], Barber, L. B., Fitzgerald, K. C., and D. K. Skelly. 2015. Suburbanization, estrogen contamination, and sex ratio in wild amphibian populations. *Proceedings of the National Academy of Sciences of the United States of America*. 112: 11881-11886. DOI: 10.1073/pnas.1501065112
4. *Donihue, C. M. and ***M. R. Lambert**. 2014. Adaptive evolution in urban ecosystems. *AMBIO*. DOI: 10.1007/s13280-014-0547-2
 - *Recommended by Faculty of 1000 (F1000):* <https://f1000.com/prime/718505856>
3. **Lambert, M. R.**[†], Yasuda, C. M.[†], and B. D. Todd. 2013. Ontogenetic shift in habitat use in the western fence lizard (*Sceloporus occidentalis*) in northern California. *Herpetological Review* 44: 579-582
2. **Lambert, M. R.**[†], Nielsen, S. N.[†], Wright, A. N., Thomson, R. C., and H. B. Shaffer. 2013. Habitat features determine the basking distribution of introduced red-eared sliders and native western pond turtles. *Chelonian Conservation and Biology* 12: 192-199.
1. **Lambert, M. R.**[†], Yasuda, C. M.[†], and B. D. Todd. 2012. Estimating snout-vent length (SVL) in lizards using image analysis. *Herpetological Conservation and Biology* 7: 83-88.

PAPERS IN PREPARATION (Complete drafts available upon request)

Lambert, M. R., Ezaz, T., and D. K. Skelly. *In Prep*. Sex reversal and sex-biased mortality drive sex ratios in wild amphibians.

OTHER SCHOLARLY CONTRIBUTIONS

8. Barber, P. H., Hayes, T. B., Johnson, T. L., Márquez-Magaña, **Lambert, M. R.** and 10,233 other signatories. Systemic racism in higher education. *Science* 369: 1440-1441.
 - A call to the scientific community to proactively dismantle systemic racisms in academia and throughout STEM fields.
7. Op-Ed in *Scientific American*: Why hasn't evolution eliminated same-sex sexual behavior?
<https://blogs.scientificamerican.com/observations/why-hasnt-evolution-eliminated-same-sex-sexual-behavior/?previewid=5FE6BA91-0644-431B-95CC2909B6A9B636>

6. Op-Ed in the *Daily Californian*: California's imperiled turtles require complex protections.

<https://www.dailycal.org/2019/09/13/californias-imperiled-turtles-require-complex-protections/>

5. Malcom, J., Schwartz, M. W., Evansen, M., Ripple, W. J., Polasky, S., Gerber, L. R., Lovejoy, T. E., Talbot, L. M., Miller, J. R. B., **Lambert, M. R.** and 1,716 other signatories. 2019. Solve the biodiversity crisis with funding. *Science* 365: 1256.

-A call to Congress by scientists to support the U.S. Endangered Species Act and to fully fund wildlife programs given prior underfunding has impeded successful wildlife conservation.

4. Op-Ed in the *Washington Post*: How gendered language leads scientists astray.

https://www.washingtonpost.com/outlook/2019/06/10/how-gendered-language-leads-scientists-astray/?utm_term=.21a57b470ef6

- Written for both the scientific community and the public to emphasize how incorrectly used gendered language is harmful to people, is biologically inaccurate, and misleads scientists in our pursuits of environmental sustainability and justice.

3. Lambert, M. R., Tarvin, R., and M. Womack. 2019. Phylogeny, Taxonomy, and Nomenclature – a Primer. <https://amphibiaweb.org/taxonomy/index.html>

- A broadly accessible guide to key evolutionary ideas and why these are important for understanding biodiversity and conservation. This is focused on amphibians and the AmphibiaWeb database.

2. Peters, R., Ripple, W. J., Wolf, C., Moskwik, M., Carreon-Arroya, G., Ceballos, G., Cordova, A., Dirzo, R., Ehrlick, P. R., Flesch, A. D., List, R., Lovejoy, T. E., Noss, R. F., Pacheco, J., Sarukhan, J. K., Soule, M. E., Wilson, E. O., and J. R. B. Miller with **Lambert, M. R.** and 2,543 other signatories. 2018. Nature divided, scientists united: U.S.-Mexico border wall threatens biodiversity and binational conservation. *BioScience*.

-Declaration that, in addition to being inhuman and socially unjust, the Trump Administration's goal of a boarder wall with Mexico would threaten biodiversity and binational conservation efforts

1. Ceriaco, L. M. P., Gutierrez, E. E., Dubois, A., ... **Lambert, M. R.** ...et al. [492 other signatories]. 2016. Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. *Zootaxa* 4196: 435-445.

-A call to biologists to continue contributing whole biological specimens to natural history collections. There is an increasing interest in only collecting photo vouchers but doing dramatically limits the scope of museum collections and interferes with conservation.

Raimond, C. and **M. R. Lambert**. 2020. *PODARCIS SICULUS* (Italian Wall Lizard). USA, Washington San Juan Co.: Orcas Island. Herpetological Review.

Lambert, M. R., Goldfarb, B. A., Watkins-Colwell, G. J., and C. M. Donihue. 2016. *PODARCIS SICULUS* (Italian Wall Lizard). *HABITAT, INVASION OF SUBURBAN WESTCHESTER COUNTY, NEW YORK*. Herpetological Review.

Goldfarb, B. A., **Lambert, M. R.**, Donihue, C. M., and G. J. Watkins-Colwell. 2016. *PODARCIS SICULA* (Italian Wall Lizard). USA: NEW YORK: Westchester Co.: Hastings-on-Hudson. Geographical Distribution Record. Herpetological Review.

Lambert, M. R. and G. S. J. Giller. 2015. *CHELYDRA SERPENTINA* (Snapping Turtle), *CHRYSEMYS P. PICTA* (Eastern Painted Turtle), *STERNOTHERUS ODORATUS* (Eastern Musk Turtle), *TRACHEMYS SCRIPTA ELEGANS* (Red-Eared Slider). *URBAN POND, HIGH TRAPPING SUCCESS*. Herpetological Review.

Donihue, C. M., **Lambert, M. R.**, and G. J. Watkins-Colwell. 2015. *PODARCIS SICULA* (Italian Wall Lizard). *HABITAT, INVASION OF SUBURBAN NEW ENGLAND*. Herpetological Review.

Donihue, C. M., **Lambert, M. R.**, and G. J. Watkins-Colwell. 2014. *PODARCIS SICULA* (Italian Wall Lizard). USA: CONNECTICUT: Fairfield Co.: Greenwich. Geographical Distribution Record. Herpetological Review.

TEACHING EXPERIENCE

Teaching Fellowships / Assistantships

Yale Teaching Fellow – Environmental Studies Fall 2013-2015

- EVST 234L Field Methods: Sustainability – Dr. Kealoha Freidenberg

Instructor, Ecosystems Measurements Module (Yale Myers MOD) Summer 2013, 2014

- 3-week intensive course for new masters students aimed at measuring attributes of ecosystems as well as how to understand variance, bias, precision, and accuracy
- I designed lecture and field exercise on measuring wildlife habitat
- I taught this exercise to over 300 new master’s students and my materials were used on an additional 300 masters students by other instructors subsequently

Yale Teaching Fellow – Molecular, Cellular, and Developmental Biology Spring 2012-2014

- MCDB 241L Reproductive and Developmental Biology Lab - Professor Mary Klein

Yale Teaching Fellow – Department of Ecology and Evolutionary Biology Fall 2011

- E&EB 240 Animal Behavior – Professor Suzanne Alonzo

UC Davis Undergraduate Teaching Assistant Spring 2011

- EVE 134, 134L, and 134F Herpetology Lecture, Lab, and Field Courses – Professor Brad Shaffer

UC Davis Undergraduate Teaching Assistant Spring 2011

- WFC 111L Conservation of Wild Birds Lab – Professor John Eadie

Guest Lectures for College Courses

Lecture & Discussion – Bowdoin College Spring 2021

- Environmental toxicology and conservation

Lecture & Discussion – Monmouth University Spring 2021

- Urban biodiversity conservation

Lecture & Discussion – Yale University Fall 2020

- Urban conservation and evolutionary biology

Lecture & Discussion – Cal Poly Pomona	Fall 2020
<ul style="list-style-type: none"> • Urban biodiversity conservation and social justice 	
Lecture & Discussion – University of Washington	Fall 2020
<ul style="list-style-type: none"> • Urban conservation and evolutionary biology 	
Field Lecture – University of Washington	Summer 2019
<ul style="list-style-type: none"> • Exploring urban stormwater management and wetland restoration for wildlife conservation 	
Lecture – University of Washington	Summer 2019
<ul style="list-style-type: none"> • <i>“The ecological, evolutionary, and conservation consequences of urbanization for amphibians”</i> 	
Field Lecture – Yale Environmental Studies	Fall 2016, 2017, 2018
<ul style="list-style-type: none"> • <i>Understanding the forested landscape’s natural and anthropogenic history</i> • Overnight course aimed at teaching undergraduates, predominantly from non-science backgrounds, tree identification, forest ecology, and the impacts of land use history and natural disturbance on forest composition 	
Lecture - Providence College	Fall 2014, 2015
<ul style="list-style-type: none"> • <i>“Endocrine Disruption: Land Use and Freshwater Systems”</i> 	
Lecture – Yale Molecular, Cellular, and Developmental Biology	Spring 2014
<ul style="list-style-type: none"> • <i>“Development, Anatomy, and Physiology of the Vertebrate Male Reproductive System”</i> 	
Lecture – Yale Molecular, Cellular, and Developmental Biology	Spring 2012-2014
<ul style="list-style-type: none"> • <i>“Amphibian Somatic and Reproductive Development – Comparisons to Human Biology”</i> 	

THESIS COMMITTEES

Josiah Johnson, MS, University of Georgia	2020-
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GRADUATE STUDENTS MENTORED AND TRAINED

Crysta Gants, PhD, Portland State University	2021-
Clay Noss, PhD, University of California Berkeley	2020-2021
Lindsey Martin, MS, Arkansas State University (Science Communications)	2019-2020
Jennifer Terry, MS, Arkansas State University (Science Communications)	2019-2020
Meredith Van Acker, MS, Yale University	2014-2016
Amber Roman, MS, Yale University	2014-2016

UNDERGRADUATE STUDENTS MENTORED AND TRAINED

Bri Baumbach, UC Berkeley	2021-
Marc Bonnot, UC Berkeley	2021-
Isabella Lovalvo, BS, UC Berkeley	2020-
Caroline Romo, BS, UC Berkeley	2020-
Andy Dettinger, BS, UC Berkeley	2019-2020
Shannon Buttimer, BS, UC Berkeley (now PhD at University of Alabama)	2018-2019
Angus Mossman, BS, Yale University	Summer 2017
Tien Tran, BS, Yale University	Summer 2016
Able Ang, BS, National University of Singapore	Summer 2016
Tess Brown, BS, Yale University	Summer 2016
Adam Go, BS, National University of Singapore	Summer 2015
Kristina Krebs, BS Yale University (now PhD at McGill University)	2014-2015

Carlos Soto, BS, University of New Haven	Summer 2013
Robyn Screen, BS, UC Davis (now PhD University of Hawaii Manoa)	2011-2013
Jennifer McKenzie, BS, UC Davis (now MS University of Kentucky)	2011-2013

HIGH SCHOOL STUDENTS MENTORED AND TRAINED

Danica Meier, High School Junior	2015-2016
Jake Longley, High School Junior	Summer 2014
Jordyn Zembrowski, High School Junior	Summer 2014
Amanda Pope, High School Junior	Summer 2013
Yained Arguelo, High School Freshman	Summer 2012

SELECT PRESS

[National Geographic](#)

[NPR](#)

[Atlas Obscura](#)

[Mother Jones](#)

[Newsweek](#)

[National Resources Defense Council – On Earth](#)

[The Wildlife Society](#)

[The New York Times](#)

[Minute Earth](#)

MUSEUM WORK

Yale Peabody Museum, Division of Vertebrate Zoology
Herpetology Curatorial Assistant 2011–2018

Duties: I maintained a dermestid beetle colony and prepared skeletal specimens of amphibians, reptiles, and large mammals. I am also responsible for collecting new specimens from the field, preserving tissues, formalin fixation, and ethanol preparation. I have collected over 3,800 specimens and designed unique skeletal and development series of various amphibian taxa as part of special projects.

Surveys: Organized and led a Bio Blitz of four properties and biological surveys of three additional properties involving members of local communities in all surveys. I have helped manage undergraduate students in the curation of the specimens from these surveys.

Student Mentorship: I help train and oversee high school and university students in specimen collection, preparation, and curation.

Outreach: I lead behind-the-scenes tours for 3rd–6th grade students about the workings and importance of museums for basic research as well as conservation. I also work with the “EVOlutions” after school program to teach high school students about ecology and evolution using museum collections. I answer written questions for the “Herpetology Hotline” where members of the public ask questions about species ID or general herpetological biology.

ACADEMIC PRESENTATIONS

- Turtle Survival Alliance (August 2021) – Virtual due to covid19
- Oral presentation on the discovery of a new turtle disease in California
- Louisiana State University (January 2021) – Virtual due to covid19
- Invited lecture (virtual), Biology Department
- Turtle Survival Alliance (September 2020) – Virtual due to covid19
- Oral presentation on an experimental invasive species removal
- North American Conference on Conservation Biology (July 2020) – Virtual due to covid19
- Talk for the plenary I organized on racial justice in conservation
- Colorado State University (March 2019) – Fort Collins, CA
- Invited lecture (virtual), Department of Fish, Wildlife, and Conservation Biology
- University of Georgia (April 2019 – CANCELLED DUE TO CORONAVIRUS) – Athens, GA
- Invited Lecture, Odum School of Ecology
- UC Santa Cruz (January 2019) – Santa Cruz, CA
- Invited lecture, Department of Environmental Studies
- CSU Sacramento (September 2019) – Sacramento, CA
- Invited Lecture, co-sponsored by USGS & CSU Sacramento Environmental Studies Department
- UC Berkeley (February 2019) – Berkeley, CA
- Invited Lecture, Department of Environmental, Science, Policy, and Management
- UC Berkeley (January 2019) – Berkeley, CA
- Invited Lecture, Museum of Vertebrate Zoology / Integrative Biology
- UC Berkeley (November 2018) – Berkeley, CA
- Invited Lecture, Herpetology Group
- UC Davis (November 2018) – Davis, CA
- Invited Lecture, Department of Wildlife, Fish, and Conservation Biology
- California State University, East Bay (November 2018) – Hayward, CT
- Invited Lecture, Department of Biology
- George Mason University (September 2018) – Fairfax, VA
- Invited Lecture, Department of Environmental Science and Policy
- Joint Meeting of Ichthyologists and Herpetologists (July 2018) – Rochester, NY (Oral)
- Herpetologists League Graduate Research Award, best research talk (\$750)
- Decolonizing Research Panel (April 20, 2018) – New Haven, CT
- Invited Panelist
 - Lecture: “The evolution of sexuality and same sex sexual behavior in animals”
- UC Berkeley (2018) – Berkeley, CA
- Invited talk, Rosenblum Lab
- EvSex16: Evolutionary Genomics of Sex (November 18, 2016) – Phoenix, Arizona (Poster)
- Early career trainee award (\$600)
- University of Canberra (11 March, 2016) – Canberra, Australia
- Invited Lecture, Institute for Applied Ecology
- Geological Society of America (2013) – Denver, Colorado (Oral)
- World Congress of Herpetology (2012) – Vancouver, Canada (Oral)
- Northeast Partners in Amphibian/Reptile Conservation (2012) – New Hampshire (Oral)
- Student Conference on Conservation Science (2011) – New York City (Poster)
- Undergraduate Research Symposium (2010) - UC Davis (Oral)

OUTREACH

Lectures and Events

Johnson Creek Watershed Council	Fall 2021
• Invited Talk for Practitioners – “Stormwater ponds as toxic sinks or quality habitat”	
Washington State Lake Protection Association (WALPA)	Fall 2021
• Invited Talk for Practitioners – “Invasive Amphibians of Washington”	
The Wildlife Society – Sacramento-Shasta Section	Fall 2019
• Invited Talk for Practitioners – “Understanding and managing amphibian toxicology”	
Connecticut Forest and Park Association	Fall 2016
• Invited Public Talk - “Are frogs sex reversing in our backyards?”	
Yale Forest Summer Research Seminar Series	Summer 2015
• Invited Public Talk – “Backyard Frogs: estrogen, sex, and suburban living”	
Guest Lecture - North Haven High School	Fall 2014
• AP Environmental Studies Class (Ms. Candice Funsch)	
New England Natural History Walk – Amphibian and Reptile Monitoring	Spring 2012
• New York City Metropolitan Society of Naturalists	
• Graduate students from the Richard Gilder School at the American Museum of Natural History	
Urban Turtles of New Haven	Spring / Summer 2012
• Turtle ecology in urban environments	
• Events for both high school classes and community groups	
Vernal Pool and Amphibian Ecology in the Northeast	Spring 2012
• Manchester, CT Cub and Boy Scouts	
Environmental Sciences Mentor, Science Fair – “Beaver Pond Park Restoration”	Spring 2012
• Hillhouse High School, New Haven, CT – AP Environmental Studies	

PROFESSIONAL EXPERIENCE / SERVICE

Reviewer (52 journals; ordered by impact factor): Nature Communications (12.210), Biological Reviews (10.701), BioScience (8.233), Global Change Biology (8.044), Methods in Ecology and Evolution (6.554), Molecular Ecology (5.947), Journal of Animal Ecology (4.841), Proceedings of the Royal Society B (4.823), Journal of Animal Ecology (4.460), Landscape Ecology (4.354), Proceedings of the Royal Society B (4.304), Evolution (4.201), Conservation Biology (4.165), Environmental Pollution (4.143), Genome Biology and Evolution (4.098), Scientific Reports (4.011) Heredity (3.801), Biological Conservation (3.762), Biology Letters (3.670), Ecological Indicators (3.42), Oikos (3.322), Oecologia (3.093), AMBIO (2.973), Environmental Science and Pollution Research (2.828), Frontiers in Zoology (2.781), Environmental Toxicology and Chemistry (2.763), Environmental Management (2.715), Urban Ecosystems (2.685), Ecology and Evolution (2.547), Ecosphere (2.287), PeerJ (2.200), Integrative and Comparative Biology (2.149), Biological Journal of the Linnean Society (1.984), Urban Ecosystems (1.970) Ethology (1.791), Journal of Great Lakes Research (1.748), Journal of Wildlife Management (1.726), Restoration Ecology (1.724), Aquatic Invasions (1.705), Journal of Zoology (1.676) Aquaculture Research (1.376), Canadian Journal of Zoology (1.303), Wetland Ecology and Management (1.274), Herpetologica (1.246), Journal of Herpetology (0.832), Tropical Zoology (0.778), Chelonian Conservation and Biology (0.738), Herpetological Conservation and Biology (0.595), Northeastern Naturalist (0.550), Chinese Journal of Oceanology and Limnology (0.547), Royal Society Open Science (New), Aquaculture and Fisheries (New)

Academic Membership: Society for Conservation Biology, Society for the Study of Evolution, Society for Integrative and Comparative Biology, Society for the Study of Amphibians and Reptiles

Communications Secretary

- Herpetologists' League (Jan. 2019 – 2021)

Diversity, Equity, and Inclusion Committee

- Herpetologists' League (2018 - 2021)
- Society for the Study of Amphibians and Reptiles (2018 – 2020)

Student Membership Committee

- Society for the Study of Amphibians and Reptiles (present)

Faculty Search Committee: student member for three Yale faculty positions

- Resource Economist
- Plant Physiologist
- Tropical Ecologist

Live Auction Organizer

- World Congress of Herpetology 2012, Vancouver, Canada
- Society for the Study of Amphibians and Reptiles/Herpetologist's League

Board Member and Chair of the Student Involvement Committee (2011)

- The Wildlife Society, Western Section

Public Relations Manager and Chapter Representative (2010-2011)

- The Wildlife Society, UC Davis Chapter

Science Communication

- Active science communicator with > 5,400 followers on Twitter
- “Navigating the Science Communication Landscape”
 - Organized 2-day event at Yale University:
 - Brought journalists, editors, and scientists together to teach early-career researchers the “why” and “how” of science communication
 - Reached diverse students from Evolution and Ecology, Anthropology, Geology and Geophysics, the School of Forestry and Environmental Studies, Public Health, and the Medical School

Articles

Online Guide to Reptiles and Amphibians of Connecticut: Red-eared Slider (*Trachemys scripta elegans*) – (<http://peabody.yale.edu/collections/vertebrate-zoology/herpetology/red-eared-slider-trachemys-scripta-elegans>)

“Measuring Lizards with Pictures: A Field Ecology Tool for Everyone.” – *PARC (Partners in Amphibian and Reptile Conservation)*. May 2012 (No. 3) Newsletter. *Year of the Lizard News*. **Max Lambert**, Brian Todd, and Catherine Yasuda.

HONORS AND AWARDS

- Society for the Study of Evolution, Sponsored Symposium award (\$9,000)
 - “Outside the models for understanding the evolution of sex chromosomes and sex determination: insights from fishes, amphibians, and reptiles”
- Herpetologists League Graduate Research Award for best research talk (\$750)
- NSF Doctoral Dissertation Improvement Grant (2017)
- Faculty of 1000 (F1000) recommendation: <https://f1000.com/prime/718505856>
 - For Donihue, C. M. and **M. R. Lambert**. 2014. Adaptive evolution in urban ecosystems. *AMBIO*. DOI: 10.1007/s13280-014-0547-2
- Early Career Research Award – *Journal of Animal Ecology* (2016)
- EvSex16: Evolutionary Genomics of Sex (November 18, 2016) – Phoenix, Arizona
 - Early Career Trainee Award (\$600)
- Strachan Donnelly Award – Yale F&ES award for a masters thesis illuminating relationships between humans and nature
- NSF GRFP – Honorable Mention 2012
- EPA STAR – Score of Excellent 2012
- 2011 Award for Academic Achievement – Wildlife, fish, and Conservation Biology
- 2011 Award for Service to the Department – Wildlife, Fish, and Conservation Biology
- 2011 Outstanding Graduating Senior: Department of Wildlife, Fish, and Conservation Biology
- UC Davis Integrated Studies Honors Program, 2007-2009
- Jack C. Hart Memorial Scholarship 2007-2008, 2010-2011
- Lloyd W. Swift Student Support Scholarship (Departmental Academic Honor) 2008-2009, 2010-2011
- Tracy and Ruth Storer Scholarship, 2008-2009 and 2009-2010