

Curriculum Vitae

KATHRYN M. EVERSON, PH.D.

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EDUCATION

- 2018** **Ph.D. in Biological Sciences, University of Alaska Fairbanks (UAF)**
National Science Foundation (NSF) Graduate Research Fellow 2014-2017
Advisor: Dr. Link E. Olson, University of Alaska Museum Mammalogy Dept.
- 2012** **B.S. in Evolution and Ecology, The Ohio State University (OSU)**
Minor: Visual Communication

CURRENT APPOINTMENT

- 2018-** **University Research Postdoctoral Fellow, University of Kentucky (UK)**
Advisor: Dr. David W. Weisrock, Biology Dept.

PUBLICATIONS

Articles in peer review

- 2020 **Everson, KM***, Gray, LN*, Jones, AG, Lawrence, NM, Foley, ME, Sovacool, KL, Kratovil, JD, Hotaling, S, Hime, PM, Storfer, A, Parra-Olea, G, Percino-Daniel, R, Aguilar-Miguel, X, Zambrano, L, Shaffer, HB, and DW Weisrock. "Geography is more important than life history in the recent diversification of the tiger salamander complex." Out for review at *PNAS*. Pre-print available on bioRxiv: <https://doi.org/10.1101/2020.07.10.197624>
**these authors contributed equally to this work*

Peer-reviewed journal articles

- 2020 **Everson, KM**, SA Jansa, SM Goodman, and LE Olson. 2020. "Montane regions drive recent diversification in small mammals and reptiles from Madagascar's humid forest." *Journal of Biogeography* (accepted; in press).
- 2020 **Everson, KM**, SM Goodman, and LE Olson. 2020. "Speciation and gene flow in two sympatric mammals from Madagascar, *Microgale fotsifotsy* and *M. soricoides* (Mammalia: Tenrecidae)." *Molecular Ecology* 29(9): 1717-1729.
doi:10.1111/mec.15433
- 2019 **Everson, KM**, McLaughlin, JF, Cato, IA, Evans, MM, Gastaldi, AR, Mills, KK, Shink, KG, Wilbur, SM, and Winker, K. 2019. "Speciation, gene flow, and seasonal migration in *Catharus* thrushes." *Molecular Phylogenetics and Evolution* 139:106564. doi:10.1016/j.ympev.2019.106564
- 2019 Stephenson, PJ, V Soarimalala, SM Goodman, M Nicoll, V Andrianjakarivelo, **KM Everson**, M Hoffmann, P Jenkins, LE Olson, M Raheriarisena, F Rakotondraparany,

- D Rakotondravony, V Randrianjafy, N Ratsifandrihamanana, A Taylor. 2019. "Review of the status and conservation of tenrecs (Mammalia: Afrotheria: Tenrecidae)." *Oryx* 53:1-10. doi:10.1017/S0030605318001205
- 2018 **Everson, KM**, KBP Hildebrandt, SM Goodman, and LE Olson. 2018. "Caught in the act: incipient speciation across a latitudinal gradient in a semifossorial mammal from Madagascar, the mole tenrec *Oryzorictes hova* (Tenrecidae)." *Molecular Phylogenetics and Evolution* 126:74-84. doi:10.1016/j.ympev.2018.02.024
- 2016 **Everson, KM**, V Soarimalala, SM Goodman, and LE Olson. 2016. "Multiple loci and complete taxonomic sampling resolve the phylogeny and biogeographic history of tenrecs (Mammalia: Tenrecidae) and reveal higher speciation rates in Madagascar's humid forests." *Systematic Biology* 65(5): 890-909.* doi:10.1093/sysbio/syw034
*featured on cover; received Publisher's Award for Excellence in Systematic Research

Book chapters

- 2020 **Everson, KM**, SM Goodman, and LE Olson. "Phylogeny and biogeography of tenrecs." Eds: Jonathan P. Benstead & Steven Goodman. *The Natural History of Madagascar, second edition*. University of Chicago Press. Submitted; Book release anticipated in 2021.
- 2020 **Everson, KM**, SM Goodman, and LE Olson. "*Oryzorictes*, mole tenrec." Eds: Jonathan P. Benstead & Steven Goodman. *The Natural History of Madagascar, second edition*. University of Chicago Press. Submitted; Book release anticipated in 2021.
- 2020 Jenkins, PD, LE Olson, **KM Everson**, and SM Goodman. "*Microgale* and *Nesogale*, shrew tenrecs." Eds: Jonathan P. Benstead & Steven Goodman. *The Natural History of Madagascar, second edition*. University of Chicago Press. Submitted; Book release anticipated in 2021.

Non-peer-reviewed publications, reviews, and reports

- 2016 **Everson, KM**. 2016. "A fully resolved tenrec phylogeny, with implications for taxonomy and ancestral habitats." *Afrotherian Conservation* 12: 9-10.
- 2015 **Everson, KM**, LE Olson. 2015. "Spines and Quills." *Animal Diversity Web*. URL: <http://animaldiversity.org/collections/spinesquills> [2015]
- 2014 **Everson, KM**. 2014. "Seduction in the poster session: how to design an academic poster that attracts visitors." *The Chronicle of Higher Education: Vitae*. URL: <https://chroniclevitae.com/news/379-seduction-in-the-poster-session> [3/12/2014]
- 2014 **Everson, KM**, CL Landry, and E Richardson. 2014. "Reproductive biology of Bay Lavender (*Heliotropium gnaphalodes* L. Boraginaceae)." *Proceedings of the 14th Symposium on the Natural History of the Bahamas*.
- 2014 Richardson, E, CL Landry, and **KM Everson**. 2014. "Mating and breeding systems of Woolly Corchorus (*Corchorus hirsutus* L. Tilliaceae)." *Proceedings of the 14th Symposium on the Natural History of the Bahamas*.

GRANTS AND AWARDS

- 2018 University Research Postdoctoral Fellowship, University of Kentucky
2017 Publisher’s Award for Excellence in Systematic Research, *Systematic Biology*
2016 A. Brazier Howell Award, American Society of Mammalogists
2016 Grant-in-Aid of Research, American Society of Mammalogists
2014 National Science Foundation (NSF) Graduate Research Fellowship
2013 Graduate Student Award, Society of Systematic Biologists

INVITED PRESENTATIONS

- 2019 **Everson, KM**. Oral Presentation. “The evolutionary history of Madagascar’s mammals: Systematics, phylogeography, and species delimitation.” Centre College: Danville, Kentucky. April 15, 2019.
- 2018 **Everson, KM** and LE Olson. Oral Presentation. “Integrating phylogenetics and morphology to study diversification and species limits in Madagascar’s tenrecs (Tenrecidae).” SPNHC + TDWG Conference: Dunedin, NZ. August 29, 2018.
- 2018 **Everson, KM**. Invited Panelist. “Linking biodiversity data through phylogenetic knowledge.” SPNHC + TDWG Conference: Dunedin, NZ. August 29, 2018.
- 2016 **Everson, KM**, V Soarimalala, SM Goodman, and LE Olson. Oral Presentation. “Reassessing the phylogeny, biogeography, and diversification of Madagascar’s tenrecs (Tenrecidae).” A. Brazier Howell plenary talk, Annual Meeting of the American Society of Mammalogists: Minneapolis, MN. June 25, 2016.

CONTRIBUTED PRESENTATIONS

† *mentored student*

- 2019 Olson, LE, **KM Everson**, V Soarimalala, and SM Goodman. Oral Presentation. “Madagascar’s tenrecs exemplify the necessity of continued scientific collecting for the conservation of biodiversity.” American Society of Mammalogists, Washington, DC. June 2019.
- 2019 † Jones, AG, **KM Everson**, LN Gray, and DW Weisrock. Poster Presentation. “DAPC plus STRUCTURE: a composite approach to population structure analysis in the *Ambystoma tigrinum* species complex.” Evolution Conference, Providence, Rhode Island. June 2019.
- 2019 Gray, LN, **KM Everson**, DW Weisrock, AG Jones, B Shaffer, and G Parra-Olea. Oral Presentation. “Population genomics, lineage boundaries, and life histories in the tiger salamander complex.” Evolution Conference, Providence, Rhode Island. June 2019.
- 2019 † Jones, AG, **KM Everson**, LN Gray, and DW Weisrock. Poster Presentation. “Diversification of the *Ambystoma tigrinum* species complex.” National Conference on Undergraduate Research, Kennesaw State University, Georgia. April 13, 2019.

- 2018 **Everson, KM**, LE Olson, SA Jansa, SM Goodman. Oral Presentation. “Montane regions drive diversification in Madagascar’s humid-forest taxa.” Society of Systematic Biologists Standalone Meeting: Columbus, OH. June 2, 2018.
- 2018 † Zedda, G, **KM Everson**, and LE Olson. Poster Presentation. “Evidence for a new species of mouse-eared tenrec (*Geogale aurita*).” University of Alaska Fairbanks Research Day. April 2018.
- 2017 **Everson, KM**, KBP Hildebrandt, and LE Olson. Oral Presentation. “Caught in the act: Incipient speciation across a latitudinal gradient in a fossorial mammal from Madagascar, the mole tenrec *Oryzorictes hova* (Tenrecidae).” Evolution: Portland, OR. June 24, 2017.
- 2016 **Everson, KM**, LE Olson, JA Nations, and M Sorlin. Oral Presentation. “Gene flow and species limits among Olympic, Vancouver Island, and hoary marmots: a 21-gene salute.” Evolution: Austin, Texas. June 21, 2016.
- 2015 **Everson, KM**, V Soarimalala, SM Goodman, and LE Olson. Oral Presentation. “Phylogeny, taxonomy, and biogeography of Madagascar’s tenrecs.” Evolution: Guarujá, Brazil. July 2015.
- 2015 **Everson, KM**, V Soarimalala, SM Goodman, and LE Olson. Oral Presentation. “Species delimitation using Next-Generation Sequencing in Madagascar’s shrew tenrecs (*Microgale*).” African Small Mammal Symposium: Mantasoa, Madagascar, April 2015.
- 2014 **Everson, KM**, SA Jansa, SM Goodman, and LE Olson. Oral Presentation. “The natural history of Madagascar's small mammals: colonization, adaptive radiation, and evolutionary constraint.” 94th Annual Meeting of the American Society of Mammalogists: Oklahoma City, OK, June 2014.
- 2014 **Everson, KM**, SA Jansa, SM Goodman, and LE Olson. Oral Presentation. “Colonization, adaptive radiation, and evolutionary constraint in Madagascar's small mammals.” Evolution: Raleigh, NC, June 2014.
- 2013 **Everson, KM** and LE Olson. Oral Presentation. "Evolutionary relationships and divergence timing of the subfamily Oryzorictinae." 93rd Annual Meeting of the American Society of Mammalogists: Philadelphia, PA, June 2013.
- 2013 Landry, CL and **KM Everson**. Poster. "Reproductive biology of dune plants on San Salvador Island." The 12th Symposium on the Natural History of the Bahamas: Gerace Research Centre, June 2013.
- 2013 **Everson, KM**. Oral Presentation. "Evolution and diversity of Madagascar's tenrecs." Midnight Sun Science Symposium: University of Alaska Fairbanks, March 2013.
- 2012 **Everson, KM**. Poster. "Intraspecific variation between allopatric populations of the marsupial *Marmosa (Micoureus) demerarae* in the Amazon basin." The Denman Undergraduate Research Forum: The Ohio State University, April 2012.

- 2012 **Everson, KM.** Poster. "Reproductive biology of Bay Lavender (*Tournefortia gnaphalodes*) on San Salvador Island, The Bahamas." The Denman Undergraduate Research Forum: The Ohio State University, April 2012.

TEACHING EXPERIENCE

Courses Taught

- 2020 Instructor: Research Experience in Biology (BIO 199, Spring, UK)
2017 Teaching Assistant: Mammalogy (BIO 425, Fall, UAF)
2016 Instructor: Morphometrics in R, a 3-day workshop for graduate students (University of Antananarivo, Madagascar)
2014 Teaching Assistant: Principles of Evolution (BIO 481, Spring, UAF)
2013 Teaching Assistant: Principles of Evolution (BIO 481, Spring, UAF)
2012 Teaching Assistant: Introduction to Biology for Majors (BIO 116, Spring, OSU)

On-Campus Lectures

- 2016 Guest Lecturer, Introductory Biology (UAF)
2015, 16 Guest Lecturer, Mammalogy (UAF)
2014, 16 Guest Lecturer, Systematics and Comparative Biology (UAF)
2015 Guest Lecturer, Advanced Topics in Evolution (UAF)

Mentorship

- 2019-20 Angela Jones, Ben Browning (undergraduates)
2016-17 Giulia Zedda (undergraduate, international student)
2015 Savannah Anchinges (undergraduate)

WORKSHOPS AND TRAINING

**received scholarship to attend*

- 2019 Compass Science Communication Workshop (UK)
2018 Posterior predictive simulation and comparative phylogeography workshops (SSB standalone meetings, Columbus, OH)*
2016 minION Hackathon and Training Workshop (UAF)
2015 SSB model-based molecular systematics workshop (Guarujá, Brazil)*
2015 INBRE Next-Generation Sequencing Workshop (UAF)
2015 Ohio State University, Model-Based Phylogeography Course (Columbus, OH)
2015 Bodega Applied Phylogenetics Workshop (Bodega Bay, CA)*
2014 Summer Institute in Statistical Genetics, Molecular Phylogenetics (Seattle, WA)*
2014 SSB Phylogenomics Software School (Raleigh, NC)
2014 Wet bench training in Next-Gen Sequencing (UCLA, Dr. M. Alfaro)*
2013 VertNet Biodiversity Informatics Training Workshop (U. Colorado Boulder)*
2013 Next-Generation Sequencing Workshop (UAF)

MISCELLANEOUS RESEARCH AND WORK EXPERIENCE

- 2012-14 Research Assistant, UAF, PI: Dr. Link Olson
2011-12 Honors Thesis Research, Universidade de São Paulo ESALQ (Piracicaba, Brazil),
PIs: Dr. Alexandre Percequillo (ESALQ) and Dr. Joan Herbers (OSU)
2011 Independent Research, Gerace Research Centre (Bahamas) PI: Dr. Carol Landry
2010-12 Lab Assistant, Aquatic Biogeochemistry, OSU, PI: Dr. James Bauer
2009-10 Lab Assistant, Plant Evolutionary Ecology, OSU, PI: Dr. Kristin Mercer
2009-10 Lab Assistant, F.T. Stone Aquatic Laboratory, Director: Dr. Jeffrey Reutter

INFORMATION VISUALIZATION PROJECTS

*Creator of the project “Data Worth Seeing” (fb.me/kathryn.m.everson)
All projects can be seen at www.kmeverson.org/infographics.html*

- 2020 “The Scientific Publishing Process” Hand-drawn infographic. 30K shares and an estimated 6 million views on Facebook.
2020 “Racial Discrimination in the Criminal Justice System” Multi-panel infographic. Shared >1,700 times on Facebook and reached 200K views.
2020 “The Genetic Code of SARS-CoV-2” Animated GIF. Reached the reddit.com front page with 18.1K upvotes and an estimated 1.6 million views.
2020 “Origins of 25 Major Diseases” Graph for social media. 3.2K Facebook views.
2020 “The Lost Ski Areas of Alaska” Print poster in collaboration with the Alaska Lost Ski Areas Project (www.alsap.org).
2019 “Mammal Tracks of Alaska” Print poster for K-12 teachers.
2019 “Why Should I Care About Budget Cuts at the University of Alaska?” Infographic. 318 Facebook shares with an estimated 64K views.
2017 “Genomic Resources.” Print poster for the University of Alaska Museum.
2017 “What Are Tenrecs?” Print poster. Second Place winner of the Visualize This! Competition at the University of Alaska Fairbanks.

SERVICE TO PROFESSION

- 2020 Reviewer for *Molecular Ecology*, *The Auk*, *Communications Biology*
2019 Reviewer for *Molecular Phylogenetics and Evolution*, *Molecular Ecology*, and *Global Ecology and Biogeography*
2018 Reviewer for *Scientific Reports* and the *Journal of Mammalogy*
2017 Reviewer for *Evolution* and *Molecular Phylogenetics and Evolution*
2016 Reviewer for *Molecular Ecology* and the *Journal of Mammalogy*
2015 Reviewer for *Molecular Ecology*
2014 Reviewer for *Molecular Ecology Resources*
2018-20 Committee Member, Afrotheria Specialist Group, International Union for the Conservation of Nature
2017-20 Committee Member, Conservation Awards Committee, American Society of Mammalogists
2014-17 Committee Member, ASM Mammal Image Library Committee

COMMUNITY INVOLVEMENT AND OUTREACH

Public Outreach Lectures

- 2020 Natural History Lecturer, Azamara Club Cruises (anticipated; multiple topics)
- 2018 *Grad Research Live! UK “Systematics and Species Discovery in Madagascar's Tenrecs” **People’s Choice winner of the postdoctoral research showcase*
- 2018 Osher Lifelong Learning Institute, UAF (topic: graduate research)

Off-campus Service

- 2019 Guest speaker, “STEM Saturday” at The Family Center, Wilmore, Kentucky
- 2018-19 Guest speaker, Glendover Elementary School, Lexington, KY
- 2017 Founder/Instructor of “Meet the Mammals,” a 2-week science camp for middle schoolers through the Alaska Summer Research Academy
- 2016-17 Contributor at The Molecular Ecologist blog (www.molecularecologist.org)
- 2016 Guest speaker, Watershed Charter School, Fairbanks, AK
- 2014 Guest speaker, Lathrop High School, Fairbanks, AK
- 2013- Publisher of original resources for designing academic posters at kmeverson.org
- 2011-18 Judge for local (Fairbanks, AK) and state (Ohio) science fairs

On-campus Service

- 2020 Committee member, "Building an Anti-Racist Department: Starting the Conversation," Diversity & Inclusion Forum, Biology Dept. (UK)
- 2020 Invited panelist, "Getting Inside the Head of a Postdoc," Life After Graduate School Conference (UK)
- 2018-19 Coordinator, UK Biology Department Weekly Happy Hour (UK)
- 2014 President, Biology Graduate Student Association (UAF)
- 2013-15 Committee member, Annual Midnight Sun Science Symposia (UAF)
- 2012-13 Creator of two ½-day student workshops on designing academic posters (UAF)
- 2011-18 Volunteer at museum open house events (UAF and OSU)

SCIENTIFIC AFFILIATIONS

- 2018- Member, Society for the Preservation of Natural History Collections (SPNHC)
- 2012- Member, Society of Systematic Biologists (SSB)
- 2012- Member, American Society of Mammalogists (ASM)

LANGUAGES

Speaking/Writing

English (native), Portuguese (proficient), Spanish (basic), French (reading only)

Computing

R (fluent), SQL (proficient), Python, HTML/CSS, and Javascript (basic)