

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." Undergoing revisions 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* 47(10): 2059-2072. doi:10.1111/jbi.13945
- *Featured as the Editor's Choice article*
- 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 New Natural History of Madagascar*. University of Princeton Press. Submitted; Book release anticipated in 2022.
- 2020 **Everson, KM**, SM Goodman, and LE Olson. "*Oryzorictes*, mole tenrec." Eds: Jonathan P. Benstead & Steven Goodman. *The New Natural History of Madagascar*. University of Princeton Press. Submitted; Book release anticipated in 2022.
- 2020 Jenkins, PD, LE Olson, **KM Everson**, and SM Goodman. "*Microgale* and *Nesogale*, shrew tenrecs." Eds: Jonathan P. Benstead & Steven Goodman. *The New Natural History of Madagascar*. University of Princeton Press. Submitted; Book release anticipated in 2022.

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

† *co-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 Oryzoricinae." 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: Introductory Biology (BIO 148, Fall, UK)
2020 Instructor: Research and Writing in Biology (BIO 398, Fall, UK)
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 Olivia Burdine, Ben Browning, Taniece Huddleston, Tyler Hylick, Angela Jones, Audrey Keith, Savannah Moore, Ava Vilaro (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. >75K shares and an estimated 15 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*, *PLoS Computational Biology*, *Conservation Genetics*
- 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 *Society of Postdoctoral Scholars Research Pitch Competition
**People's Choice winner*
- 2020 Natural History Lecturer, Azamara Club Cruises (Cancelled due to COVID-19)
- 2018 *Grad Research Live! UK Speaking Competition
**People's Choice winner of the postdoctoral research showcase*
- 2018 Osher Lifelong Learning Institute, UAF

Off-campus Service

- 2018-20 Guest speaker, Glendover Elementary School, Lexington, KY
- 2019 Guest speaker, "STEM Saturday" at The Family Center, Wilmore, Kentucky
- 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, Python, HTML/CSS, and Javascript (basic/proficient)