

Curriculum Vitae

KATHRYN M. EVERSON, PH.D.

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EDUCATION

- 2018 Ph.D., Biological Sciences, University of Alaska Fairbanks (UAF)
2012 B.S., Evolution and Ecology, The Ohio State University (OSU)

PROFESSIONAL APPOINTMENTS

- 2018- University Research Postdoctoral Fellow, University of Kentucky
(Advisor: Dr. David W. Weisrock)
2014-17 NSF Graduate Research Fellow, UAF (Advisor: Dr. Link E. Olson)

PUBLICATIONS

Refereed journal articles

- 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.
- 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.
- 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.
- 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.*
**featured on cover; received Publisher's Award for Excellence in Systematic Research*

Manuscripts in progress

- 2019 **Everson, KM**, SM Goodman, and LE Olson. "Speciation and gene flow in two sympatric mammals from Madagascar, *Microgale fotsifotsy* and *M. soricoides* (Mammalia: Tenrecidae)." Under review at *Molecular Ecology*.

- 2019 **Everson, KM**, SA Jansa, SM Goodman, and LE Olson. “Montane regions drive recent diversification in small mammals and reptiles from Madagascar’s humid forest.” In prep for *Journal of Biogeography*.
- 2019 **Everson, KM***, Gray, LN*, Jones, AG, Lawrence, NM, Foley, ME, Sovacool, KL, Kratovil, JD, Hotaling, S, Hime, PM, Storfer, A, Parra-Olea, G, Aguilar-Miguel, X, Zambrano, L, Shaffer, HB, and DW Weisrock. “Population genomics, lineage boundaries, and life histories in the tiger salamander species complex.” In prep for *PNAS*.
**these authors contributed equally to this work*

Invited book chapters

- 2020 **Everson, KM** 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. Book release anticipated in 2020.
- 2020 **Everson, KM** and LE Olson. “*Oryzorictes*, mole tenrec.” Eds: Jonathan P. Benstead & Steven Goodman. *The Natural History of Madagascar, second edition*. University of Chicago Press. Book release anticipated in 2020.

Non-refereed publications, reviews, and reports

- 2018 **Everson, KM**. 2018. The evolutionary history of Madagascar’s tenrecs (Mammalia: Tenrecidae): Systematics, phylogeography, and species delimitation. University of Alaska Fairbanks, PhD dissertation. *ScholarWorks*, <http://hdl.handle.net/11122/9667>.
- 2016 **Everson, KM**. 2016. "A fully resolved tenrec phylogeny, with implications for taxonomy and ancestral habitats." *Afrotherian Conservation* 12: 9-10. (IUCN newsletter)
- 2015 **Everson, KM**, LE Olson. 2015. "Spines and Quills." *Animal Diversity Web*. URL: <http://animaldiversity.org/collections/spinesquills/>
- 2014 **Everson, KM**. 2014. "Seduction in the poster session: how to design an academic poster that attracts visitors." *The Chronicle of Higher Education: Vitae*. Online 3/13/2014.
- 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

PRESENTATIONS

* invited symposium talk

- 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** 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**, 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**, 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.
- 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 AND LECTURING EXPERIENCE

Courses Taught

- 2017 Teaching Assistant, Mammalogy (UAF)
2014 Teaching Assistant, Principles of Evolution (UAF)
2013 Teaching Assistant, Principles of Evolution (UAF)
2012 Teaching Assistant, Introduction to Biology for Biology Majors (OSU)

Workshops Designed and Taught

- 2017 Alaska Summer Research Academy ("Meet the Mammals": A 2-week science camp for middle schoolers)
2016 Morphometrics in R (3 days, University of Antananarivo, Madagascar)

Invited Lectures

- 2019 Centre College (Danville, Kentucky – topic: The Evolutionary History of Madagascar's Mammals)

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)

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 (USP) 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

SERVICE TO PROFESSION

- 2019 Reviewer for *Molecular Phylogenetics and Evolution*
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*
2014- Committee Member, ASM Conservation Awards Committee
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)

- 2019 Grad Research Live! UK “Systematics and Species Discovery in Madagascar's Tenrecs” (People’s Choice winner of the postdoctoral research showcase)
- 2018-19 Glendover Elementary School, Lexington, KY (multiple topics)
- 2018 Osher Lifelong Learning Institute, UAF (topic: graduate research)
- 2016 Watershed Charter School, Fairbanks, AK (topic: avian adaptations)
- 2014 Lathrop High School, Fairbanks, AK (topic: Adaptation in Alaska)

Off-campus Service

- 2016-17 Contributor at The Molecular Ecologist blog (www.molecularecologist.org)
- 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

- 2014 President of UAF’s Biology Graduate Student Association
- 2013-15 Committee member for UAF’s Annual Midnight Sun Science Symposia
- 2012-13 Creator of two ½-day student workshops on designing academic posters
- 2011-18 Volunteer at museum open house events (UAM 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)
- 2012- Member, IUCN-SSC Afrotheria Specialist Group

LANGUAGES

Speaking/Writing

English (native), Portuguese (conversational), Spanish (proficient), French (reading proficient)

Computing

R (fluent), SQL (proficient), Python (basic)