

T. Mason Linscott

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he/him

Professional Employment and Education

NSF Postdoctoral Research Fellow 2022 – Pres.

Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Research Advisor: Dr. Josef Uyeda

Wildlife and Genomic Resource Consultant 2021 – 2022

Selkirk Wildlife Science, Sandpoint, ID, USA

Employer: Dr. Michael J. Lucid

Ph.D., Bioinformatics and Computational Biology 2015 – 2021

University of Idaho, Moscow, Idaho, USA.

Advisor: Dr. Christine E. Parent.

B.Sc. Biology. with honors, cum laude 2010 – 2014

University of Tulsa, Tulsa, OK, USA

Publications

6. Linscott TM, Recla NK, Parent CE. Geology constrains biomineralization expression and functional trait distribution in the Mountainsnails. 2023. Journal of Biogeography.

5. Hirano T, Saito T, Ito S, Ye B, Linscott TM, Dong Z, and Chiba S. "Phylogenomic analyses reveal incongruences between divergence times and fossil records of freshwater snails in East Asia." 2023. Molecular Phylogenetics and Evolution 182: 107728.

4. Linscott TM, Gonzalez-Gonzalez A, Hirano T, Parent CE. De novo assembly and genome skims reveal LTRs dominate the genome of a limestone endemic Mountainsnail (*Oreohelix idahoensis*). 2022. BMC genomics, 23(1), pp.1-17.

3. Linscott TM, Weaver K, Morales V, Parent CE. Assessing Species Number and Genetic Diversity of the Mountainsnails (Oreohelcidae). 2020. Conservation Genetics 21, no. 6 (2020): 971-985.

2. Phillips JG, Linscott TM, Rankin AR, Kraemer AK, Shoobs NF, Parent CE, Archipelago-Wide Patterns of Colonization and Speciation Among an Endemic Radiation of Galápagos Land Snails. 2020. Journal of Heredity. DOI: 10.1093/jhered/esz068

1. Linscott TM, Parent CE. Mitochondrial Genome Sequence of the Land Snail *Oreohelix idahoensis*. 2019. Microbiology resource announcements. DOI: 10.1128/MRA.01693-18

***Red author indicates undergraduate researcher.

Products and Reports

1. **Linscott, T.M.**, A.M. Rankin, L. Robinson, and M.K. Lucid. 2022. Species taxonomic evaluation, population structure, and distribution of FWS priority *Oreohelix* in Washington: Final Performance Report. Selkirk Wildlife Science, Sandpoint, Idaho, USA, 60 pages.

External Grants, Awards, and Fellowships (Total: \$362,915)

Mountain snails in western United States: deciphering species and subspecies for management and conservation of these Species of Greatest Conservation Need: C-SWG (co-PI) (\$300,000)	(submitted)
NSF Postdoctoral Research Fellowship in Biology (deferred to Mar. 2022) (\$138,000)	2021
USFWS Conservation Fund (\$66,635)	2021
Templeton Foundation Big Ideas Challenge (\$1,000)	2020
NSF EPSCoR GEM3 Seed Grant: "Uncovering the Role of Resource Availability: From Geology to Genomics" (\$15,000)	2019
World Congress of Malacology 2019 Student Presentation Award (\$300)	2019
Society for the Study of Evolution: Program for Local Outreach Promoting the Understanding of Evolutionary Biology (\$1,000)	2019
Western Society of Malacologists 2017 Student Presentation Award (\$150)	2017
Conchologists of America Research Award (\$1,830)	2016
Western Society of Malacologists Research Award (\$1,000)	2016
NSF Graduate Research Fellowship (\$138,000)	2015

Internal Grants, Awards, and Fellowships (Total: \$39,000)

IBEST Genomic Resource Research Grant (\$8,000)	2022
UI Bioinformatics and Computational Biology Fellowship (\$19,000)	2019
University of Idaho: COS Travel Award (\$1,500)	2018
University of Idaho: Workshop Award (\$1,500)	2016
University of Idaho: COS Travel Award (\$1,500)	2016
Cherokee Nation Tribal Scholarship (\$8000)	2010 – 2014

Teaching, Mentorship, and Workshop Experience

Invited Lecturer, VT: Postdoc Showcase	2023
Attendee, American Indian Science and Engineering Society Leadership Summit 2023.	2023
Invited Lecturer, VT : Macroevolution & Phylogenetics BIOL 6014	2022
Invited Lecturer, Lewis Clark State College: Hell's Canyon Institute	2022
Graduate Research Mentor: Principal student advisor for six UI undergraduates studying <i>Oreohelix</i> ecology and evolution	2015 – 2021
Teaching Assistant, UI: Population Biology/Ecology BIOL 314	2021
Teaching Assistant, UI: Genetics BIOL 315	2020
Teaching Assistant, UI: Dimensions of Biodiversity BIOL 404	2018 – 2019

Invited Lecturer, UI: Evolution BIOL 202	2015
Guest Fellowship Advisor, Prestigious Fellowship Writing Workshop	2015
Teaching Assistant, UI: Mammalogy Lab	2014
Workshop Leader: <i>Exploring the utility of PGLS for quantitative traits</i> . University of Tulsa	2014

Graduate Mentorship(lab and field mentorship):

Ian Oiler – Microbiome analysis of *Oreohelix* land snails

Kelly Martin – Landscape Genetics of Galapagos *Naesiotus*

Undergraduate Mentorship

Primary Mentor:

Brandon Larsen – Ecological factors associated with *Oreohelix* distribution.
\$3,000 grant money earned.

Anna Oetting – Phylogenetics relationships of the *O. strigosa* complex.
\$18,000 grant money earned.

Garren Riggers – Phylogenetic relationships of the *O. haydeni* complex.
\$4,000 grant money earned.

Tyler Souza – Phylogenetic relationships of the *O. waltoni* complex
\$4,000 grant received.

Co-mentor:

Nicole Recla – Geological associates and crushing strength of *Oreohelix*.
\$1,000 grant received. Paper co-author.

Cassandra Goodmansen – Geometric morphometrics of *Oreohelix* species.
\$1,500 grant received.

Professional Presentations

Talks:

Linscott TM, Recla N, Parent CE. *Geology constrains biomineralization expression and functional trait distribution in the Mountainsnails*. AISES National Conference 2023

Linscott TM, Gonzalez-Gonzalez A, Hirano T, Parent CE. *De novo assembly and genome skims reveal LTRs dominate the genome of a limestone endemic Mountainsnail (*Oreohelix idahoensis*)*. World Congress of Malacology Munich; 2022 Aug.

Linscott TM, Parent CE. *Marine Mollusc Ornamentation and Ocean Acidification: Contrasting Effects of Climate Change*. IBEST lunch talk; 2020.

Linscott TM, Parent CE. *Recognizing and Predicting Global Patterns of Molluscan Shell Ornamentation Expression through Machine Learning*. World Congress of Malacology; 2019 Aug. ****Best Student Presentation**

Linscott TM, Parent CE. *Genomic and Geologic Patterns of Ornamentation in *Oreohelix**. Northwest Scientific Association; 2019 Mar.

Phillips JH, **Linscott TM**, Rankin AR, Kraemer AK, Shoobs NF, Parent CE, *Archipelago-Wide Patterns of Colonization and Speciation Among an Endemic Radiation of Galápagos Land Snails*. World Congress of Malacology; 2019 Aug.

Linscott TM, Parent CE. *SnailTrails: A Collaborative Learning Platform for the Education, Conservation, and Discovery of Biodiversity*. Institute for Bioinformatics and Evolutionary Studies Expo.; 2018 Sep.

Linscott TM, Parent CE. *SNPs, Snails, and Lime: Genomic and Geologic Patterns of Ornamentation*. American Malacological Society & Western Malacological Society joint meeting; 2018 Jun.

Linscott TM, Parent CE. *SNPs, Snails, and Lime: Genomic and Geologic Patterns of Ornamentation*. Society of Systematic Biologists 2018, Stand-alone meeting; 2018 Jun.

Linscott TM, Parent CE. *Phylogenomics of Lower Salmon River Oreohelcidae*. Western Society of Malacologists Annual Meeting; 2017 Jun. ****Best Student Presentation**

Linscott TM, Parent CE. *SNPs, Snails, and Mountain Trails: Phylogenomics of Oreohelcidae*. University of Colorado Museum of Natural History, Boulder, CO; 2016 Oct.

Linscott TM, Roche EA, Bonett RM. *The effects of diet, ecology, and physiology on the evolution of endothermic gastrointestinal tract lengths*. American Society of Mammalogists; 2014 Jun 6-10

Linscott TM, Roche EA, Bonett RM. *The effects of diet, ecology, and physiology on the evolution of endothermic gastrointestinal tract lengths*. Society of Integrated and Comparative Biology, Austin, TX. 2014 Jan.

Posters:

Linscott TM and Josef Uyeda. Orstein-Uhelnbeck models of ecophysiolegically constrained traits. Society of Systematic Biology Standalone 2023.

Diversity, Equity, and Inclusion Efforts:

Field trip leader, Lewis Clark State College: Hell's Canyon Institute	2022
App development leader of SnailTrails: A Collaborative-Learning Platform for the Education, Conservation, and Discovery of Biodiversity	2019
Snailing leader/participant: Two-Eyed Seeing - Indigenous	2018
Salmon River Mentorship Expedition on the Middle Fork, Salmon River	
NSF Indigenous STEM (ISTEM) Scholar and Mentee	2015-2021
Presenter: Palouse Science After Hours "Parent Lab Takeover!"	2016
Presenter: Nez Perce Community Center Academic Fair	
Undergraduate Member:	2014
Oklahoma Louis Stokes Alliance for Minority Participation (OK-LSAMP)	

Software Proficiencies:

Python: Experience with basic scripting and packages related to YOLO machine image recognition models.	2020 – Pres.
Shell: Developed and used bash/Slurm scripts and pipelines.	2014 – Pres.
R: Package development, graphics generation, and statistical analysis (i.e. population genetic, phylogenetic, GWAS etc).	2012 – Pres.

Professional Society Memberships:

Society for the Study of Evolution, Society of Systemic Biologists, AISES, Western Society of Malacology, Unitas Malacogica, American Society of Malacology

Journal Referee:

Journal of Biogeography, Ecology and Evolution, G3, BMC Genomics, American Malacological Bulletin,

In the news:

The Scientist: Genome Spotlight (runner-up)