

## T. Mason Linscott

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he/him

### Education

- **Ph.D., Bioinformatics and Computational Biology** 2015 – 2021  
University of Idaho, Moscow, Idaho, USA.  
Advisor: Dr. Christine E. Parent. Dissertation: *Resource Constrained Adaptive Evolution of Mollusc Shell Form*
- **B.Sc. Biology.** with honors, cum laude 2010 – 2014  
University of Tulsa, Tulsa, OK, USA

### Professional Employment

- **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

### Software Proficiencies:

- **Python:** Experience with basic scripting and packages related to YOLO machine image recognition models. 2017 – 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, basic stats etc). 2012 – Pres.

### Publications

- **Linscott TM**, Recla NK, Parent CE. CaCO<sub>3</sub> availability constrains biomineralization expression and distribution of Mountainsnails (*Oreohelix*). 2021 (submitted). Journal of Biogeography. Accepted with minor revisions.
- 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." Molecular Phylogenetics and Evolution 182 (2023): 107728.
- **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.
- **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.
- **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.
- 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

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

#### **Products and Reports**

- **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: \$346,915)**

- 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
- 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: \$54,000)**

- IBEST Genomic Resource Research Grant (\$8,000) 2022
- UI Bioinformatics and Computational Biology Fellowship (\$19,000) 2019
- NSF EPSCoR GEM3 Seed Grant: “Uncovering the Role of Resource Availability: From Geology to Genomics” (\$15,000) 2019
- University of Idaho: COS Travel Award (\$1,500) 2018
- NSF Indigenous STEM (ISTEM) Scholar 2016 – 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**

- 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 *Oreohelix* 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: *Exploring the utility of PGLS for quantitative* 2014  
traits. University of Tulsa

### Community Outreach

- Field trip leader, Lewis Clark State College: Hell's Canyon Institute 2022
- App development leader of SnailTrails: A Collaborative-Learning 2019  
Platform for the Education, Conservation, and Discovery of Biodiversity
- Snailing leader/participant: Two-Eyed Seeing - Indigenous 2018  
Salmon River Mentorship Expedition on the Middle Fork, Salmon River
- 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)

### Professional Presentations

#### Talks:

- **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 Oreohelidae*. Western Society of Malacologists Annual Meeting; 2017 Jun. **\*\*Best Student Presentation**
- **Linscott TM**, Parent CE. *SNPs, Snails, and Mountain Trails: Phylogenomics of Oreohelidae*. 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 Mammologists; 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 ecophysiologically constrained traits. Society of Systematic Biology Standalone 2023.