

Genevieve Geraldine Mount

Utah State University & University of California Berkeley

Phone: 831-588-9426, Email: ggmountt@gmail.com

<https://lizeve.github.io/>

Professional Appointments:

National Science Foundation Postdoctoral Fellow

University of California Berkeley

March 2021 – Present

Laboratory Technician

University of California Davis & University of California Los Angeles

February 2011 – June 2014

Education:

2020 Ph.D. Biology, Louisiana State University, Baton Rouge

Advisor: Jeremy Brown Ph.D. & Christopher Austin Ph.D

2010 B.S. Evolution, Ecology, and Biodiversity, University of California, Davis

Peer-Reviewed Publications:

MacGuigan, D., **Mount, G.G.** (co-first author), Watkins-Colwell, G., Near, T., Lambert, M. (2022) Genomic data clarify *Aquarana* systematics and reveal isolation-by-distance dominates phylogeography of the wide-ranging frog *Rana clamitans*. *Ichthyology & Herpetology*, 110.3, 602-617

Mount, G.G., Brown, J.M. (2022) Comparing likelihood ratios to understand genome-wide variation in phylogenetic support *Systematic Biology*, 71.4, 973-985 *Invited submission

Nations, J.A., **Mount, G.G.**, Morere, S.M., Achmadi, A.S., Rowe, K.C, Esselstyn, J.A. (2021) Locomotory mode transitions alter phenotypic evolution and lineage diversification in an ecologically rich clade of mammals. *Evolution*, 75.2, 376-393

Lambert, M.R., McKenzie, J.M., Screen, R.M., Clause, A.G., Johnson, B.J. **Mount, G.G.**, Shaffer, H.B., Pauly, G.B. (2019) Experimental removal of introduced slider turtles offers new insight into competition with a native, threatened turtle. *PeerJ*, 7, e7444

Höhna, S., Coghill, L. M., **Mount, G.G.**, Thomson, R.C., Brown, J.M. (2017) P3: Phylogenetic Posterior Prediction in RevBayes. *Molecular Biology and Evolution*, 35.4, 1028-1034

- Spinks, P.Q., McCarty-Melstad, E., Near, T. J., **Mount, G. G.**, and H.B Shaffer. (2017)
Phylogenomic analyses of 539 highly informative loci dates a fully resolved time tree for the major clades of living turtles (Testudines). *Molecular Phylogenetics and Evolution*, 115, 7-15
- McCarty-Melstad, E., **Mount, G.G.**, and H.B. Shaffer. (2016) Exon capture optimization in amphibians with large genomes. *Molecular Ecology Resources*, 16.5, 1084-1094
- Spinks, P.Q., Thomson, R.C., Pauly, G.B, Newman, C.E., **Mount, G.G.**, and H.B. Shaffer. (2013)
Misleading phylogenetic inferences based on single-exemplar sampling in the turtle genus *Pseudemys*. *Molecular Phylogenetics & Evolution*, 68.2, 269-281

Other publications:

- Brown, J.M., **Mount, G.G.**, Gallivan, K.A., Wilgenbusch, J.C. 2023 The Diverse Applications of Tree Set Visualization and Exploration. *Species Tree Inference: A Guide to Methods and Applications* Princeton University Press

Grants and Fellowships:

2021	Endangered Species Mitigation Fund	\$7,100
2021	NSF Postdoctoral Fellowship 1-year extension	\$69,000
2020	NSF Postdoctoral Fellowship	\$138,000
2015-2018	Departmental Research Assistantship, Louisiana State University	\$63,000
2017	Louisiana State University BioGrads Travel	\$400
2016	Louisiana State University BioGrads Travel	\$400
2015	NSF Graduate Research Fellowship, Honorable Mention	Computational resources
2015	NSF Society for Systematic Biologists Workshop in Model-based Molecular Systematics	\$1,750
2015	Louisiana State University BioGrads Travel Award	\$400

Invited Seminars & Symposia:

- 2023 University of Colorado Department of Integrative Biology, Denver Co
- 2022 University of California Museum of Vertebrate Zoology Seminar Series, Berkeley CA
- 2021 Utah State University Department of Biology Seminar Series, Logan UT
- 2019 **Mount, G.G.**, Brown, J.M, “Comparing genome-wide measures of phylogenetic support in squamates”, *Phylogenetic Support Symposia*. Evolution, Providence RI
- 2017 Holder, M., Schwartz, R., **Mount, G.G.** **Debate moderator* “Missing data in phylogenomics: When is it a problem?”, Standalone Meeting for Society for Systematic Biologists, Baton Rouge, LA
- 2016 Louisiana State University Computational Biology Seminar Series, Baton Rouge LA

Selected Presentations:

- 2020 **Mount, G.G.**, Brown, J.M. “Comparing genome-wide measures of phylogenetic support in squamates”. Standalone Meeting for Society for Systematic Biologists, Gainesville, Florida. (poster)
- 2018 **Mount, G.G.**, Elias, D., Morris, D., Ash, J., Huang, W., Marchand, M., Gallivan, K.A., Wilgenbusch, J.C., Brown, J.M. “TreeScaper: identifying phylogenetic communities” Evolution, Portland, Oregon (poster)
- 2018 **Mount, G.G.**, Elias, D., Morris, D., Brown, J.M., “Visualizing phylogenetic forests”. BioGrads Symposium in Baton Rouge, Louisiana. (talk)
- 2016 **Mount, G.G.**, Brown, J.M. “Can differences in model fit explain conflicting estimates of the Squamate tree of life?” Evolution, Austin, Texas. (talk)
- 2015 **Mount, G.G.**, Brown, J.M. “Is there evidence of bias in molecular phylogenetic estimates of the squamate tree of life?” Evolution, Guaruja Brazil. (talk)
- 2013 **Mount, G.G.**, McCartney-Melstad, E. Spinks P.Q., Shaffer H.B. “Genomic Resource Development in California Ranids” Joint Meeting of Ichthyologists and Herpetologists, Albuquerque, New Mexico. (talk)

Computational Projects:

Digital imaging workflow: Organized and implemented new pipeline for cataloguing, archiving, and sharing specimen images. Shirley Tucker Herbarium, LSU, Baton Rouge, LA. 2019-2020

2019 Kluse, J., Mossicato, C., **Mount, G.G.**, Lagomarsino, L. “Restructuring the LSU Herbaria After Doubling in Size” Botany, Tuscon, Arizona. (poster)

RNA-seq analysis: Learned and used Partek Flow to clean and analyze RNA-seq data to estimate differential expression. Center for Computation & Technology, LSU, Baton Rouge, LA. 2019

Service:

Peer Reviewer: *Molecular Biology and Evolution, Molecular Ecology, Journal of Biogeography*

Grant Reviewer: Undergraduate Research & Creative Opportunities, Utah State University (2020)

Diversity Committee Member: Women in Science at Louisiana State University (2017-2018)

Fundraiser: BioGrads at Louisiana State University (2016-2018)

Student Organizer: Standalone Meeting for Society for Systematic Biologists, Baton Rouge, LA (2017). Women in Science Panel, Evolution. Austin, TX (2016)

Student Council Member: Society for Systematic Biologists (2016-2017)

Mentor: BEACON Undergraduate Diversity, Evolution, Austin, TX (2016)

Outreach:

Social Media for AmphibiaWeb.org: Science communication on Twitter (2022-now)

Speaker: Visited classrooms to answer questions about being LGBT+ (2016-2020)

Outreach Volunteer for Louisiana Museum of Natural Sciences: Step-Outside Day, Earth Day, Special Saturdays, Night at the Museum (2014-2020)

Undergraduate Mentoring:

Ten students in scientific literature search Utah State University, Logan and Price Campus. University of California Berkeley. (2021-2022) Resulted in two research posters.

2022 Lloyd, Addie. **Mount, G.G.** "Multimodal Courtship Signaling in the Family Hylidae" Department of Biology Undergraduate Research Symposium, Logan Utah (poster)

2022 Lee, Gaochi. **Mount, G.G.** "Sharing and Synthesizing Information Online Freely Using AmphibiaWeb" Department of Biology Undergraduate Research Symposium, Logan Utah (poster)

Three students in basic computing at Louisiana State University. (2016-2018)

Five students in fieldwork, animal husbandry, data management, and genomic wet lab work at University of California Davis and UC Los Angeles. (2011-2014)

Teaching Experience:

Teaching Assistant:

Herpetology Laboratory, LSU BIOL 4146 (2015)

Introductory Biology Laboratory, LSU BIOL 1209 (2014)

Guest Lecturer:

Genetics Laboratory, USU BIOL 3065 (2022)

Introduction to Computing for Biologists, LSU BIOL 4800 (2018)

Herpetology, LSU BIOL4146 (2015)