

# Genevieve G. Mount

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## EDUCATION

Ph.D. Biology – Louisiana State University, Baton Rouge (August 2014-December 2020)

B.S. Evolution, Ecology, and Biodiversity - University of California, Davis (June 2010)

## PENDING PUBLICATIONS

**Mount, G.G.**, Brown, J.M. Comparing new measures of phylogenomic support to resolve the squamate tree of life (*in review for special issue of Systematic Biology*)

**Mount, G.G.**, Huang, W., Gallivan, K.A., Wilgenbusch, J.C., Brown, J.M. The Performance of Network-Based Community Detection for Identifying Structure in Phylogenetic Tree Sets (*in prep for Systematic Biology*)

Brown, J.M., Huang, W., Marchand, M., Zhou, G., **Mount, G.G.**, Morris, D., Ash, J., Gallivan, K.A., Wilgenbusch, J.C. Using Networks to Identify Structure in Phylogenetic Tree Sets (*in prep for Systematic Biology*)

MacGuigan, D., **Mount, G.G.**, Watkins-Colwell, G., Near, T., Lambert, M. Isolation-by-distance dominates phylogeography and confounds species delimitation in a wide-ranging frog (*in review for Systematic Biology*)

## PUBLICATIONS

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*

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*

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*

Spinks, P.Q., McCartney-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

McCarteny-Melstad, E., **Mount, G.G.**, and H.B. Shaffer. (2016) Exon capture optimization in amphibians with large genomes. *Molecular Ecology Resources*, doi: 10.1111/1755-0998.12538

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, 269-281.

## CONFERENCE PRESENTATIONS

**Mount, G.G.**, Brown, J.M. 2020 (Poster) Comparing genome-wide measures of phylogenetic support in squamates. Systematic Biology, Gainesville, Florida.

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

**Mount, G.G.**, Brown, J.M. 2019 (Invited symposium, oral presentation) Comparing genome-wide

measures of phylogenetic support in squamates. Evolution, Providence, Rhode Island.

**Mount, G.G.**, Elias, D., Morris, D., Ash, J., Huang, W., Marchand, M., Gallivan, K.A., Wilgenbusch, J.C., Brown, J.M. 2018 (Poster presentation) TreeScaper: identifying phylogenetic communities. Evolution, Portland, Oregon

**Mount, G.G.**, Elias, D., Morris, D., Brown, J.M., 2018 (Oral presentation) Visualizing phylogenetic forests. BioGrads Symposium in Baton Rouge, Louisiana.

Holder, M., Schwartz, R., **Mount, G.G.** 2017 (Debate moderator) Missing data in phylogenomics: When is it a problem? How big of a problem is it? Standalone Meeting for Society for Systematic Biologists, Baton Rouge, Louisiana.

**Mount, G.G.**, Brown, J.M. 2016 (Oral presentation) Can differences in model fit explain conflicting estimates of the Squamate tree of life? Evolution, Austin, Texas.

**Mount, G.G.**, Brown, J.M. 2015 (Oral presentation) Is there evidence of bias in molecular phylogenetic estimates of the squamate tree of life? Evolution, Guarujá Brazil.

**Mount, G.G.**, McCarterny-Melstad, E. Spinks P.Q., Shaffer H.B. 2013 (Oral presentation) Genomic Resource Development in California Ranids. Joint Meeting of Ichthyologists and Herpetologists, Albuquerque, New Mexico.

## **GRANTS & AWARDS**

2020 – NSF Postdoctoral Fellowship recommended for funding

2014-2018 Departmental Research Assistantship, Louisiana State University

2017 - Louisiana State University BioGrads Travel Award (\$400)

2016 - Louisiana State University BioGrads Travel Award (\$400)

2015 - NSF Graduate Research Fellowship, Honorable Mention (Enhanced access to supercomputing resources)

2015 - NSF Society for Systematic Biologists Workshop in Model-based Molecular Systematics Travel Award (\$1,750)

2015 - Louisiana State University BioGrads Travel Award (\$400)

2010 - Citation for Academic Excellence in Evolution, Ecology, and Biodiversity

2010 - Bachelors of Science with Honors

## **TEACHING & RESEARCH**

2019-2020 - Research Assistantship, Center for Computing and Technology

2018-2019 - Research Assistantship, Herbarium, database management

2018 - Guest Lectures, Introduction to Computing for Biologists

2018 - Research Assistantship, TreeScaper NSF grant

2015 - Guest Lectures, Herpetology Lecture

2015 - Teaching Assistantship, Herpetology Lab

2014 - Teaching Assistantship, Introductory Biology Lab

## **SERVICE**

2019 – Reviewer for Molecular Biology and Evolution

2017-2018 – Diversity Committee, Women in Science at Louisiana State University

2017-2018 Merchandizer, BioGrads at Louisiana State University

2017 - Student Organizer for Standalone Meeting for Society for Systematic Biologists, Baton Rouge, LA

2016 - 2017 - Student Council Member, Society for Systematic Biologists

2016 - Reviewer for Molecular Ecology

2016 - Fundraiser, BioGrads at Louisiana State University

2016 - BEACON Undergraduate Diversity mentor at Evolution meeting

2015 - Reviewer for Journal of Biogeography

## **OUTREACH**

### **Outreach Volunteer, Louisiana Museum of Natural Sciences**

2014-present

- Lead museum tours. Interact with public at outreach events at Step-Outside Day, Earth Day, Special Saturdays and Night at the Museum.

### **Computational Biology Seminar Series**

2016

- Invited speaker