

Sarah E Leventhal

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EDUCATION

In progress PhD in Geological Sciences, The University of Colorado Boulder
2018 BSc (with honors) in Geophysical Sciences, The University of Chicago

RESEARCH

2018-present University of Colorado Boulder Simpson Lab

- Digitization and geometric morphometric analysis of specimens (Helicon Software, Fiji, RStudio)
- Modeling phenotypic evolution (RStudio)

2019-2020 University of Colorado Museum of Natural History

- Data aggregation for museum fossil specimens, updating specimen information in collection database
- Entry of specimens into collection database, wet preparation preservation of invertebrate zoology specimens

2019 University of Colorado Boulder Li Lab

- Genetic sequencing of CO1 in bryozoans
- DNA collection, PCR analysis, gel electrophoresis, comparative DNA analysis (4Peaks)

2016-2018 University of Chicago Jablonski LAB

- Geometric morphometric analysis of bivalve shell shape (RStudio and Stratovan Checkpoint)
- Data aggregation of bivalve occurrence database

PEER-REVIEWED PUBLICATIONS

Leventhal, S. et al. Microevolution of Coloniality. (*in review*)

CONFERENCE PRESENTATIONS

Leventhal, S. (2021) Trait Heredity as a predictor of morphological distance between closely related species, American Society of Naturalists Virtual Asilomar (Online).

Leventhal, S. et al. (2020) The Colony as an Evolutionary Unit, Geological Society of America Annual Meeting 2020 (Online).

Leventhal, S. (2019) The Origin of Phenotypic Plasticity in *Stylopoma*, North American Paleontological Convention, Riverside, CA.

Leventhal, S. (2019) Marine bivalve aspect ratio, shell size, and their relationship to a latitudinal gradient, Rocky Mountain Geobiology Symposium, Boulder, CO.

INVITED TALKS

“Bryozoan Polymorphs: How Did They Evolve?” University of Colorado Boulder (CU Boulder)
Geobiology Group Seminar, April 9th 2021 (upcoming).

“Evolution of Phenotypic Variance in Cheilostome Bryozoans.” University of
Northern Colorado (UNC) Department of Earth and Atmospheric Science seminar, March
25th 2021 (upcoming).

PROFESSIONAL EXPERIENCE

2019 Larval Biology of Marine Invertebrates, University of Washington, Friday Harbor
Marine Laboratories
2019 Quantitative Genetics Seminar, University of Washington, Friday Harbor Marine
Laboratories

HONORS / AWARDS

2019-2020 University of Colorado Geological Sciences Graduate Student Fellow
2014-2018 The College at the University of Chicago Dean’s list

GRANTS

	<i>Amount</i>
2019 University of Colorado Museum Student Research Award	\$1500
2019 University of Colorado Geology Graduate Research Award	\$1500

TEACHING AND MENTORSHIP

Mentorship Programs

2020-present Peer-Peer Graduate Student Mentor, CU Boulder
2019-present Graduate Admissions in the Earth Sciences (GATES) Mentor, CU Boulder

Undergraduate Student Researchers

Kayli Stowe (2019-present)
Sarah Jamison-Todd (2018-2020)

Teaching Experience

GEOL 1020 – History of a Habitable Planet
GEOL 1010 – Exploring Earth
GEOL 3410 – Paleobiology
GEOL 3430 – Sedimentology and Stratigraphy

Certificates

In progress Certificate in College Teaching, CU Boulder
2020 LGBTQ+ Inclusion Safe Zone Certification, CU Boulder Center for Inclusion and
Social Change

PUBLIC SERVICE & OUTREACH

Institutional/Organizational

- present Outreach Committee Board Member, Association for Women Geoscientists, Laramide Chapter
- present Unlearning Racism in the Geosciences (URGE) Pod Co-Leader, CU Boulder Department of Geological Sciences
- 2020-present Graduate Talk Seminar Coordinator, CU Boulder Department of Geological Sciences
- 2020-present Geological Sciences Graduate Association (GSGA) executive representative, CU Boulder

Community Engagement

- 2021 CoorsTek Denver Metro Regional Science and Engineering Fair Judge, Animal Sciences
- 2021 University of Colorado Museum of Natural History Wonder of the Week blog contributor
- 2020 University of Colorado Museum of Natural History Family Days docent

PROFESSIONAL AFFILIATIONS

The Paleontological Society, The American Society of Naturalists, Geological Society of America, Society for the Study of Evolution, Association for Women Geoscientists