

TRAVIS LEWIS STEINER-LEACH

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EDUCATION

Princeton University Princeton, New Jersey

Ph.D. in Geoscience

Advisor: Dr. Blair Schoene

Expected Graduation:

Fall 2023

Boise State University Boise, Idaho

B.S. in Geoscience, Emphasis in Geology

Honors: *cum laude*

Graduation:

August 2018

SKILLS

- FIELD BASED TOPOGRAPHIC MAPPING
- DIGITAL MAP MAKING WITH ARCGIS
- INTERPRETING GEOMORPHOLOGY
- MATLAB BASED COMPUTATION
- ROCK/MINERAL IDENTIFICATION
- INTERPRETING STRUCTURAL FEATURES
- THIN SECTION MICROSCOPY
- SCANNING ELECTRON MICROSCOPY
- LAB SAFETY TRAINING
- SAMPLE PREPARATION & DISSOLUTION CHEMISTRY
- FIELD IDENTIFICATION AND SAMPLING

RESEARCH/LABORATORY EXPERIENCE

Graduate Researcher, Department of Geoscience

Princeton University – Princeton, New Jersey

Fall 2018 – Current

- Independent first year PhD research
- Process samples for high precision ID-TIMS dating

Research Assistant/Laboratory Technician, Isotope Geology Laboratory

Boise State University – Boise, Idaho

May 2016 – Aug 2018

- Processed samples for high precision ID-TIMS and LA-ICPMS including physical, magnetic, and heavy liquid separation
- Conducted original research on zircon exsolution from rutile in granulite xenoliths
- Operated scanning electron microscope and petrographic microscope

Team Geologist/Research Member, Micro-g NExT “Microgravity Team”

Boise State University – Boise, Idaho

Fall 2016 – Spring 2017

- Planned and proposed a NASA approved design for a subsurface drilling prototype tool
- Collaborated with 12+ person team and 4 faculty advisors in design and build process
- Worked in multidisciplinary team environment bringing together engineers, science, history, and secondary education majors
- Facilitated over 12 community outreach events to promote STEM learning in K-12 students

McNair Research Fellow, Ronald E. McNair Post-Baccalaureate Achievement Program

Boise State University – Boise, Idaho

August 2016 – May 2018

- Conducted original research through the Isotope Geology Laboratory on the petrological topic of Zircon Exsolution from Rutile

Internship, Bushveld Africa Array Research Experience for Undergraduates

The Pennsylvania State University - State College, Pennsylvania

May 2017- August 2017

University of Witwatersrand – Johannesburg, South Africa

- NSF funded summer research experience for undergraduates hosted at Penn State
- 8 undergraduates: 4 on geochemistry projects and 4 on seismology projects
- Conducted original research on multiple sulfur isotopes of the Bushveld Complex in South Africa with lab work at University of Maryland and the Carnegie Institute in Washington D.C. and field work in South Africa.
- Presented original research as a poster at The Geological Society of America Annual meeting in Seattle Washington

TEACHING EXPERIENCE

Writing Consultant, The Writing Center

Boise State University

Fall 2015 – May 2018

- Consulted with a diverse range of writers across many writing genres from first year undergraduate students to doctoral students
- Responded to email consultations in the Online Writing Laboratory (OWL)

COMMUNITY ENGAGEMENT

Financial Officer, Geoscience Club

Boise State University

Fall 2015 – Spring 2017

- Organized and participated in events like the Boise River Watershed Watch, Boise River Sweep, Rake-up Boise, and the Boise State Science and Technology Fair.

Research Member/Team Geologist, Micro-g NEXt “Microgravity Team”

Boise State University

Fall 2016 – Spring 2017

- Planned, organized, and participated in over a dozen community events including: The Hispanic Youth Conference, STEM nights at local elementary schools, and The Boise State Science and Technology Fair

CONFERENCE PRESENTATIONS

March 2017

“Zircon Exsolution from Rutile: Conditional Controls on Ultra High Temperature Metamorphic Granulites” Poster Presentation, *National Conference for McNair Scholars*, University of Maryland; College Park, Maryland

April 2017

“Zircon Exsolution from Rutile: Conditional Controls on Ultra High Temperature Metamorphic Granulites” Poster Presentation, *Boise Chapter of the Society for Mining, Metallurgy, and Exploration Annual Poster Session*; Boise, Idaho

April 2017

“Zircon Exsolution from Rutile: Conditional Controls on Ultra High Temperature Metamorphic Granulites” Poster Presentation, *Undergraduate Research Conference*, Boise State University; Boise, Idaho

June 2017

“Multiple sulfur isotopes in granite-hosted sulfides from the Bushveld Igneous Complex” Poster Presentation, *Summer Research Poster Session*, The Pennsylvania State University; State College, Pennsylvania

July 2017

“Multiple sulfur isotopes in granite-hosted sulfides from the Bushveld Igneous Complex” Poster Presentation, *Africa Array Field School*, University of Witwatersrand; Johannesburg, South Africa

August 2017

“Multiple sulfur isotopes in granite-hosted sulfides from the Bushveld Igneous Complex” Oral Presentation, *LSAMP/MURI/McNair Summer Research Symposium*, Boise State University; Boise, Idaho

October 2017

“Multiple sulfur isotopes in granite-hosted sulfides from the Bushveld Igneous Complex” Poster Presentation, *GSA Annual Meeting*, Seattle, Washington

April 2018

“Multiple sulfur isotopes in granite-hosted sulfides from the Bushveld Igneous Complex” Poster Presentation, *Boise Chapter of the Society for Mining, Metallurgy, and Exploration Annual Poster Session*; Boise, Idaho

April 2018

“Zircon Exsolution from Rutile: Conditional Controls on Ultra High Temperature Metamorphic Granulites” Oral Presentation, *Undergraduate Research Conference*, Boise State University; Boise, Idaho

AWARDS

NSF Graduate Research Fellowship Program	Spring 2018
SME First Place Undergraduate Research Poster Presentation	Spring 2018
Ronald E. McNair Post-Baccalaureate Achievement Program	Spring 2016
Dean's List Highest Honors	Fall 2014
Dean's List Highest Honors	Spring 2015
Dean's List High Honors	Fall 2015
Dean's List Highest Honors	Spring 2016
Dean's List Highest Honors	Fall 2016
Dean's List High Honors	Spring 2017
Dean's List Highest Honors	Fall 2017
Dean's List High Honors	Spring 2018

SCHOLARSHIPS & GRANTS

		AWARDED:
Claude Spinosa Presidential Endowed Scholarship	\$1800	2016
Claude Spinosa Presidential Endowed Scholarship	\$2500	2017
Bushveld Africa Array REU	\$4000	2017
GSA On to The Future Grant	\$500	2017
SME First Place Poster Presentation	\$750	2018
NSF Graduate Research Fellowship	\$138,000	2018

MEMBERSHIPS

The Geological Society of America	2016 - Present
American Geophysical Union	2016 - Present
Boise State University Geoscience Club	2015 - 2018
Society for Mining, Metallurgy, and Exploration	2016 - 2018
Idaho Gem Club	2014 - 2016
Micro-g Research Team	2016 - 2017