

Cameron Tripp | cjtripp@umich.edu | 860-841-5339

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EDUCATION

University of Michigan | *Ann Arbor, Michigan* **anticipated: May 2026**

Ph.D. Pre-Candidate in Earth and Environmental Sciences | Advisor: Dr. Julia E. Cole

Paleoclimatology and Paleoceanography Specialization | GPA: 4.00

Brown University | *Providence, Rhode Island* **May 2021**

B.Sc. with Honors in Geology-Biology | Advisor: Dr. Timothy Herbert

GPA: 3.96

RESEARCH EXPERIENCE

Graduate Research Assistant

Sep. 2021-Present

Paleoclimate and Common Era Lab | University of Michigan

- Studying evolution of the El Niño Southern Oscillation (ENSO) over the mid-late Holocene using subannual geochemical records from coral skeletons.
- Developing monthly and bimonthly records of $\delta^{18}\text{O}$ and Sr/Ca measurements from modern and fossil coral material to assess relative changes in temperature and precipitation in the Eastern Pacific. ENSO signal is extracted based on periodicity to assess the cycle's relative intensity over time.
- Interested in the behavior of ENSO in the Eastern Pacific over an interval 4kyr BP where Central Pacific ENSO was weakened.
- Broadly interested in agreement between $\delta^{18}\text{O}$ and Sr/Ca as ENSO proxies in the Eastern Pacific.
- Practiced at coral assessment using CT scans and scanning electron microscopy.

Undergraduate Research Assistant

Dec. 2018- Jun. 2021

Timothy Herbert Lab Group | Brown University

- Completed **Honors Thesis Project** assessing the potential for developing a seasonal-scale temperature record in the NE Pacific using high-resolution alkenone paleothermometry. Developed new methods for high-resolution sampling and alkenone extraction.
 - Picked ice rafted detritus as well as planktonic (*N. Pachyderma*) and benthic (*U. Peregrina*) foraminifera, as part of a project to infer changes in N. Atlantic ice cover over the past 500,000 years
 - Performed statistical analysis of sediment cores from the eastern equatorial Pacific to assess the relative completeness of each core's record, with eventual goal of testing the hypothesis of permanent El Niño conditions in the mid-Pliocene
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PRESENTATIONS

C. J. Tripp, J. E. Cole, A. Tudhope, K. Dyez, D. Thompson, R. L. Edwards, "Multiproxy records from eastern Pacific corals suggest no weakening of ENSO 4,000 years BP." Oral presentation, *American Geophysical Union Fall Meeting*, Chicago, IL, December 13, 2022.

C. J. Tripp, J. E. Cole, “Does the central Pacific decline in ENSO variability 4,000 years BP extend to the eastern Pacific?” Poster presentation, *Michigan Geophysical Union*, University of Michigan, Ann Arbor, MI, April 6, 2022.

RESEARCH GRANTS

Scott Turner Award in Earth and Environmental Sciences **Dec. 2021**
First Tier, \$2300
University of Michigan

Karen T. Romer Undergraduate Teaching and Research Award **Jun. 2019**
\$3200
Brown University

TEACHING EXPERIENCE

Graduate Student Instructor **Aug. 2021 - Dec. 2021**
EARTH223: Introductory Oceanography Lab | University of Michigan

- Responsible for teaching and grading two lab sections, independent from the lecture course.
- Presented 30-45 minute lectures on material each week, and guided students through hands-on learning opportunities.

Undergraduate Teaching Assistant **Aug. 2020 - Dec. 2020**
EEPS1370: Environmental Geochemistry | Brown University

- Assisted with remote instruction of upper-level course by organizing 1-2 course review and homework help sessions a week.
- Graded assignments.

Undergraduate Teaching Assistant **Aug. 2019 - Dec. 2019, Jul. 2020 - Dec. 2020**
BIOL0210: Diversity of Life | Brown University

- Collaborated with the Professor to design course assignments and redesign lectures for remote instruction.
- Ran 1-2 problem and exam review sessions per week..
- Graded assignments.

Counselor, Environmental Instructor **Jun. 2018 - Aug. 2018**
Westmoor Park Education Center | West Hartford, CT.

- Responsible for leading groups of local children and young adults on environmental excursions in the park to learn more about the ecology of the local environment, and how to better sustain it.

AWARDS

Best Poster Award **Apr. 2022**
Michigan Geophysical Union | University of Michigan

HONORS SOCIETIES AND PROFESSIONAL ORGANIZATIONS

Sigma Xi

2021 - Present

EXTRACURRICULAR AND VOLUNTEER EXPERIENCE

Communication and Outreach Coordinator

Sep. 2021 - Present

University of Michigan GeoClub

- Managing communication between all tiers of Michigan EARTH's official student organization
- Curating weekly newsletter circulating events and initiatives throughout the department
- Organizing career panels with industry professionals to educate student body

Organizer and Moderator

Jan. 2021 - May 2021

University of Michigan EARTH Career Panels Board

- Network with professionals in Earth Science and related industries to organize panels focused on different categories of possible student careers.
- Moderate panels with pre-determined and audience-sourced questions for the panelists.

President, Business Manager

Aug. 2018 - Dec. 2020

The Bear Necessities of Brown University

- As President, oversaw all other student leaders of the organization, maintained positive relations among group members, and spearheaded group initiatives focused on equity and inclusion.
- As Business Manager, oversaw finances, organized international tours, and communicated with local organizations and venues.

Staff Writer

Sep. 2018 - Mar. 2019

Brown Political Review

- Writer for student-run political commentary magazine
- Published multiple articles per semester on the magazine website - www.brownpoliticalreview.org –
- Focused on current events relating to environmental policy on a national and international scale.

SKILLS

- Statistical analysis and data visualization in **Anaconda**, **MATLAB**, and **R-Studio**.
- Simple modeling in **MATLAB** and **R-Studio**.
- 4 years of lab experience, trained in operation of **Delta V Plus Mass Spectrometer**, **Inductively Coupled Plasma - Optical Emissions Spectrometer (ICP-OES)**, **Scanning Electron Microscope (SEM)**, **Electron Microprobe**, **Accelerated Solvent Extractor (ASE)**, **Gas-Chromatograph Flame-Ionized Detector (GC-FID)**, **Carbon Dioxide Coulometer**.
- Experienced in flash column chromatography for compound separation.