

Emily O. Ross

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Education

Iowa State University, PhD Candidate and Graduate Dean Scholar 2019-Present

- NSF Project: “Linking slip dynamics to off-fault deformation in strike-slip fault systems”
 - Advised by Dr. Jacqueline Reber (Iowa State) and Dr. Sarah Titus (Carleton College)
- Presented at AGU and GeoMod conferences, 2020 AGU Outstanding Student Presentation Award
- President, Geology Graduate Student Organization, 2020-2021, reelected 2021-2022
- University awards: Diane Brandt Fellowship for Women in STEM, Brown Graduate Fellowship
- Department awards: Pick of the Year 2021, Graduate Student Seminar Top Paper Award 2021 and 2020

Thomas J. Watson Fellow, “Earth to Kiln: Geology in Global Art Practices” 2017-2018

- Prestigious \$30,000 award to explore a self-directed project internationally for one year post-graduation
- Scientist/Artist in Residence: Sudurnes Science and Learning Center, Iceland; Leach Pottery, England; Apolline Project, Italy; Villa Lena, Italy; Mashiko Toge Club, Japan; The Pottery Workshop, China
- Selection criteria: leadership, imagination, independence, emotional maturity, courage, integrity, resourcefulness, responsibility

Carleton College, BA with distinction in both theses, Geology and Studio Art 2013-2017

- Sigma Xi, National Merit Scholar, GPA: 3.55, ACT: 35, GRE: 165/162/5
- Society of Economic Geologists Merit Scholarship
- Carleton Alumni Council Class of 2017 Representative, KRLX radio host, Carleton Cello Choir
- Fieldwork: New Zealand (10-week study abroad), Missouri, California, Northern Minnesota

Work Experience

Iowa State University Geology and Carleton College Geology, Lab Instructor and TA 2015-Present

- Independently taught lab and field courses including multi-day camping trips

Wassaic Project, Education Fellow and Artist in Residence 2019

- Developed and taught curriculum exploring geology and art intersections at Webutuck Middle School in rural New York and organized twice-weekly Art Nest activities for ages 3-15 and adult community

Iowa State University, Kolenkow-Reitz Undergraduate Research Fellow Summer 2016

- Research used as proof-of-concept for successful \$267,000 NSF grant
- Developed 2D and 3D methodology for analyzing silicone modeling experiments

NASA Jet Propulsion Laboratory, Astrobiogeochemistry Lab Intern Summer 2015

- Analyzed 3.5 billion year old martian-analogue carbonate samples for organic material with SEM
- Simplified multi-instrument Mars 2020 rover workflow using early instrument prototypes

NOAA Headquarters, Climate Coordination Intern Winter 2014

Carleton Summer Science Institute, Dorm Counselor Summer 2014

- Mentored high school girls on college applications and research projects, led daily science news discussions, coordinated evening and weekend social activities, led hiking and canoe field trips

Carleton Sports Information Department, Sports Photographer (<http://emily.science>) 2013-2017

Carleton College Art Department, Ceramic Studio Assistant and Sculpture Monitor 2015-2017