Graham Harper Edwards

Earth & Planetary Sciences University of California Santa Cruz 1156 High Street EMS A232 Santa Cruz, CA 95060 U.S.A.

EDUCATION

University of California Santa Cruz

2016 - Present

Email: ghedwards@ucsc.edu Phone: 001.920.559.2279

 $Doctoral\ Studies,$ Earth & Planetary Sciences

Candidacy Fall 2018

Proposed Dissertation Title: Applications of the uranium decay chain to diverse problems in deep time and Quaternary studies: chronologic insights into processes of planetary interiors and the bases of glaciers.

Advisor: Prof. Terrence Blackburn

Committee: Profs. Slawek Tulaczyk (Chair, UCSC), Myriam Telus (UCSC), Kurt Cuffey (UC Berkeley)

Bowdoin College Brunswick, ME

2014

Bachelor of Arts: Earth and Oceanographic Science with Honors, Classics minor Summa cum Laude, ΦBK Society

PUBLICATIONS

- 4. T. Blackburn, G.H. Edwards, S. Tulaczyk, M. Scudder, G. Piccione, B. Hallet, J.C. Zachos, B. Cheney, N. McLean, J.T. Babbe, *In review*, Subglacial precipitates record the East Antarctic response to 1-2 °C warming. *Nature*.
- 3. G.H. Edwards, T. Blackburn. 2020. Accretion of a large LL parent planetesimal from a recently formed chondrule population. Science Advances.
- 2. G.H. Edwards, T. Blackburn. 2018. Detecting the extent of ca. 1.1 Ga Midcontinent Rift plume heating using U-Pb thermochronology of the lower crust. *Geology* (46), 911–914. doi: 10.1130/G45150.1
- 1. G.H. Edwards. 2014. Geochemical and stratigraphic analysis of the Linnévatnet sediment record: a study of Late Holocene cirque glacier activity in Spitsbergen, Svalbard. [Honor's Thesis] Bowdoin College: Brunswick, ME, U.S.A. 73 p. [Undergraduate Research Commons]

TEACHING

University of California Santa Cruz

Graduate Teaching Assistant

Fall 2019 Elements of Field Geology

Spring 2018 Geochemistry of the Solar System

Winter 2018 Geologic Principles

Bozeman & Livingston Public Schools MT, U.S.A.

2015

Substitute Teacher

- Instructor and paraprofessional in K-12 classrooms.
- Taught students with various educational needs in diverse subjects.

Bowdoin College Brunswick, ME, U.S.A.

2012 - 2013

Laboratory Teaching Assistant

 Assisted coordination and instruction of field and laboratory activities for an introductory geoscience course.

OUTREACH & PUBLIC SERVICE

Geoscientists Encouraging Openness and Diversity in the Earth Sciences (GEODES) Student Leader

2019 - 2020

- Organize and implement outreach events centered on promoting awareness of issues facing underrepresented groups in the geosciences and cultivating a culture of inclusivity in the UCSC Earth & Planetary Sciences Dept.
- · One of six graduate student leaders responsible for the operation and development of GEODES.

Skype a Scientist 2019

Volunteer Scientist

- · Prepare educational content and host video calls with elementary classrooms.
- · Teach geoscience concepts and share stories about experiences as a scientist.

Santa Cruz Museum of Natural History

2018 - Present

Volunteer Scientist

· Create educational content and host geoscience educational activities at monthly museum events.

Peary-MacMillan Arctic Museum Brunswick, ME

2015 - 2016

 $Curatorial\ Intern$

- · Developed outreach programming and exhibition content.
- · Supplemented undergraduate courses with lectures drawing on museum collections.
- Mentored and trained undergraduate student interns and employees.

HONORS & AWARDS

Aaron and Elizabeth Waters Award	2019
Issued annually for the most outstanding proposal for PhD research in the	
UCSC Earth & Planetary Sciences Dept.	
UC Santa Cruz Regent's Fellowship	2016
National Association of Geoscience Teachers Outstanding TA Award	2014
Sarah and James Bowdoin Scholar (Dean's List)	2011 - 2013
Grua/O'Connell Research Award	2013
Freedman Summer Research Fellowship in Coastal/Environmental Studies	2012

CONFERENCE ABSTRACTS (1ST AUTHOR)

- G.H. Edwards, T. Blackburn, S. Tulaczyk, G.G. Piccione. 2019. [Poster]: U-series isotopics of silts from Taylor Valley, Antarctica: Applying comminution dating methods on polar desert tills and implications for the timeframe of valley incision. American Geophysical Union Fall Meeting, San Francisco, CA, U.S.A.
- 4. G.H. Edwards, T. Blackburn, S. Tulaczyk, G.G. Piccione. 2019. [Poster]: U-Series isotopics constrain timescale of bedrock comminution and glacial incision in Taylor Valley, Antarctica. *Goldschmidt Annual Meeting*, Barcelona, ES.
- 3. G.H. Edwards, T. Blackburn, C.M.O'M. Alexander. 2017. [Talk]: Accretion and disruption histories of the ordinary chondrite parent bodies. *Meteoritical Society Annual Meeting*, Santa Fe, NM, U.S.A.
- G.H. Edwards, T. Blackburn, K.V. Smit. 2017. [Poster]: Timescales of crustal cooling of the Superior Craton near Attawapiskat, Ontario, Canada, and implications for extent of Keweenawan plume heating. American Geophysical Union Fall Meeting, New Orleans, LA, U.S.A.
- G.H. Edwards. 2014. [Poster]: Geochemical and stratigraphic analysis of the Linnévatnet sediment record: a provenance study of Late Holocene cirque glacier activity in Linnédalen, Spitsbergen, Svalbard. 44th International Arctic Workshop, Boulder, CO.

ADDITIONAL SERVICES, EXPERIENCES

Earth & Planetary Sciences Dept., UCSC

Spring 2019

Whole Earth Seminar Organizer

- · One of two graduate student organizers that coordinated a departmental seminar series.
- · Contacted and scheduled speakers from diverse disciplines with in Earth and planetary sciences.

U.S. Forest Service Winthrop, WA, U.S.A.

2015

Forestry Aid (Wildland Firefighter Type 2, GS-2)

Society Affiliations: Geochemical Society, Geological Society of America, Meteoritical Society, American Geophysical Union.

Analytical Experience: Expert: TIMS. Proficient: MC-ICP-MS, ICP-MS, SEM EDS. Limited: ICP-OES, XRF, XRD.

Non-academic Interests: Rock climbing, cross-country skiing, birdwatching.