

Elizabeth A. Erickson

Ph.D. Candidate

Department of Earth Science - University of California, Santa Barbara, CA 93106-9630
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EDUCATION

- 2015-present **Ph.D., Geology, University of California, Santa Barbara (UCSB)**
Department of Earth Science
Advisor: Dr. John M. Cottle
Thesis title: “Magmatic history of the Ross Orogen along the Gondwanan paleo-Pacific margin”
Certificates: Certificate in College and University Teaching (CCUT) (*Pending*)
- 2007-2011 **B.A., Geology/Environmental Studies Magna Cum Laude, Cornell College, Mount Vernon, IA**
Department of Geology
Advisor: Dr. Benjamin J. Greenstein
Honors thesis title: “Using epibiont successional patterns to determine the mode of accumulation of Late Pleistocene fossil reefs”
Phi Beta Kappa

PUBLICATIONS

ABSTRACTS/PRESENTATIONS

- Erickson, E.A.** and Cottle, J.M., 2017, Ross Orogeny magmatism in Northern Victoria Land, Antarctica: insight into along-strike arc variation and comparison to the detrital zircon record: Geological Society of America Abstracts with Programs, v. 49, no. 6, doi:10.1130/abs/2017AM-299690.
- Erickson, E.A.** and Greenstein, B.J., 2011, Using epibiont successional patterns to determine the mode of accumulation of Late Pleistocene fossil reefs: Geological Society of America Abstracts with Programs, v. 43, no. 1, p. 68.
- Erickson, E.A.**, 2011, Using epibiont successional patterns to determine the mode of accumulation of Late Pleistocene fossil reefs: Cornell College 15th Annual Student Symposium, 16 April 2011, Mount Vernon, Iowa.
- Erickson, E.A.** and Greenstein, B., 2011, Using epibiont successional patterns to determine the mode of accumulation of Late Pleistocene fossil reefs: Abstract Northeastern (46th Annual) and North-Central (45th Annual) Joint Meeting, 20–22 March 2011, Pittsburgh, Pennsylvania.
- Calcote, R., Lynch, E.A., Hotchkiss, S.C., Woods, P., Drake, C., **Erickson, E.**, 2010, A mid-Holocene prairie extension in northern Wisconsin: American Quaternary Association (AMQUA) biennial meeting, 12-15 August 2010, Laramie, Wyoming.
- Erickson, E.A.**, 2010, Fire history from Little Round Lake, northwestern Wisconsin, USA: Cornell College 14th Annual Student Symposium, 17 April 2010, Mount Vernon, Iowa.
- Erickson, E.A.**, 2009, Fire history from Little Round Lake, northwestern Wisconsin, USA: UMN Geology and Geophysics NSF-REU Summer Internship Program, 6 August 2009, Minneapolis, Minnesota.

THESIS

- Erickson, E.A.**, 2011, Using calcareous encrusting epibiont successional patterns to determine the mode of accumulation of Late Pleistocene fossil reefs [B.A. Thesis]: Cornell College, 90 pp.

HONORS AND AWARDS

- 2018 Alumni Graduate Award for Research Excellence, Earth Science Department, UCSB
- 2018 ScienceLine Award in Earth Science for Outstanding Contribution to Promoting Science in K-12 Schools
- 2017 Antarctica Service Medal of the United States of America, National Science Foundation
- 2017 First place for “PolarPeople at home” Photo Contest, Association of Polar Early Career Scientists (APECS)
▪ Photo displayed in the UCSB Earth Science department
- 2016 UCSB Royal Geological Society of Goleta Award for Best FISH Czar
- 2011 Phi Beta Kappa, Cornell College
- 2011 *Magna Cum Laude*, Cornell College
- 2011 Herbert Hendricks Award to the Outstanding Senior Geology Major, Cornell College
- 2010 Barry M. Goldwater Scholarship Honorable Mention
- 2010 William H. Norton Geology Award for Outstanding Junior, Cornell College
- 2009 Research Experience for Undergraduates, National Science Foundation (NSF Award #0649044)
- 2009 Gene Hinman Geology Award for Excellence in Fieldwork, Cornell College

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GRANTS AWARDED AS GRADUATE STUDENT

2018	Preston Cloud Award, Earth Science Department, UCSB \$300
2017	Atwater Global Field Travel Award, Earth Science Department, UCSB \$2,000
2017	Summer Research Fellowship, Earth Research Institute (ERI), UCSB, \$500
2016	Summer Research Fellowship, Earth Research Institute (ERI), UCSB, \$1,500
2016-2020	Graduate Research Fellowship Program, National Science Foundation (NSF Award #1650114), \$138,000
Total: \$142,300	

GRANTS AWARDED AS UNDERGRADUATE STUDENT

2011	North-Central Section Student Travel Grant, Geological Society of America (GSA), \$150
2010	Barry Center Wilderness Politics Course Award, Cornell College, \$450
2010	North-Central Section Undergrad Research Grant, Geological Society of America (GSA), \$200
2010	Student Research Grant, Paleontological Society, \$750
2010-2011	Student-Faculty Collaborative Research Grant, Cornell College, \$3,500
2009	Cat Levy Off-Campus Study Award, Cornell College, \$300
2007-2011	Academic Trustee Scholarship, Cornell College, \$60,000
2007	Pete Henry Scholarship, Cornell College, \$1,500
2007	Sunflower Bank Community Ambassador Program Scholarship, Kansas, \$1,500
Total: \$68,350	

PROFESSIONAL EXPERIENCE *(references available upon request)*

2018-present	Graduate student researcher at UCSB, Santa Barbara, CA
2018	Field course cook (Earth 104B: Field Methods: Rainbow Basin) at UCSB, Santa Barbara, CA
2017-2018	Earth Science Speaker's Club Host at UCSB, Santa Barbara, CA
2017	Field course cook (Earth 6: Mountains, Boots, and Backpacks: Field Study of the High Sierra) at UCSB, Santa Barbara, CA
2015-2018	Teaching Assistant at UCSB, Santa Barbara, CA
2014-2015	Training and HSE Manager at COLUMBINE LOGGING, INC., Denver, CO
2012-2014	Lead Well Site Geologist at COLUMBINE LOGGING, INC., Denver, CO
2012	Agricultural Technician at K-STATE NW RESEARCH-EXTENSION CENTER., Colby, KS
2010	Teaching Assistant at CORNELL COLLEGE, Mount Vernon, IA
2008	Internship at IOWA OFFICE OF THE STATE ARCHEOLOGIST, Iowa City, IA

TEACHING EXPERIENCE

2018	Associate Instructor EARTH 10 "Antarctica: The Last Place on Earth" (SuB18) <ul style="list-style-type: none">▪ <i>Duties:</i> Design and administer course material, lectures, quizzes, and exams; maintain online course materials; calculate and submit student course grades.
	EUREKA! Mentor for the UCSB Center for Science and Engineering Partnerships (CSEP) <ul style="list-style-type: none">▪ Summer research program for UCSB undergraduates in STEM disciplines through the California Nanosystems Institute (CNSI) to address academic skills, social networking, and career exploration needed for success in the sciences.
	Summer Teaching Institute for Associates (STIA) <ul style="list-style-type: none">▪ Pre-summer orientation program for planning, conducting, and assessing teaching of undergraduate courses sponsored by the Graduate Division and Instructional Development at UCSB.
	Teaching Assistant EARTH 177 "Ore Deposits and Mineral Resources" (Sp18) <ul style="list-style-type: none">▪ <i>Course instructor:</i> Dr. John Cottle and Dr. Phil Gans, UCSB▪ <i>Duties:</i> Update, prepare, and lead course labs, maintain office hours, grade assignments.
	Guest Lecturer EARTH 10 "Antarctica: The Last Place on Earth" (W18) <ul style="list-style-type: none">▪ <i>Course instructor:</i> Dr. Allison Price, UCSB
	Teaching Assistant EARTH 10 "Antarctica: The Last Place on Earth" (W18) <ul style="list-style-type: none">▪ <i>Course instructor:</i> Dr. Allison Price, UCSB▪ <i>Duties:</i> Prepare and lead course labs, maintain office hours, grade assignments, guest lectures.

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- 2017 **Guest Lecturer** EARTH 10 “Antarctica: The Last Place on Earth” (F17)
▪ *Course instructor: Dr. John Cottle, UCSB*
- Teaching Assistant** EARTH 115 “Analytical Methods” (W17)
▪ *Course instructor: Dr. Matt Rioux, UCSB*
▪ *Duties:* Lead course labs, maintain office hours, grade assignments.
- 2016 **Teaching Assistant** EARTH 20 “Catastrophes” (Su16)
▪ *Course instructor: Melissa Scruggs, M.S., UCSB*
▪ *Duties:* Lead course labs, maintain office hours, grade assignments.
- Teaching Assistant** EARTH 7 “Dinosaurs” (Sp16)
▪ *Course instructor: Dr. Dan Luna, UCSB*
▪ *Duties:* Lead course labs, maintain office hours, grade assignments.
- Teaching Assistant** EARTH 2 “Physical Geology” (W16)
▪ *Course instructor: Dr. Sabina Thomas, UCSB*
▪ *Duties:* Lead course labs, maintain office hours, grade assignments, lead day-long student field trips.
- 2015 **Teaching Assistant** EARTH 7 “Dinosaurs” (F15)
▪ *Course instructor: Dr. Dan Luna, UCSB*
▪ *Duties:* Lead course labs, maintain office hours, grade assignments.
- 2010 **Teaching Assistant** GEO 111 “Physical Geology” (Block 8)
▪ *Course instructor: Dr. Emily Walsh, Cornell College*
▪ *Duties:* Prepare course lab materials, lead study sessions, assist course labs, assist student field trips.

OUTREACH AND VOLUNTEER

- 2017-present 500 Women Scientists, Santa Barbara Pod – Career Development Committee
- 2016-present UCSB Materials Research Laboratory ScienceLine Scientist
- 2016-present UCSB Women in Science and Engineering (WiSE) Mentor
- 2015-present UCSB Earth Science Outreach
- 2017-2018 UCSB Earth Science Graduate Student Association President
- 2017 Girls Inc. – Boost Program
- 2016-2017 UCSB Earth Science Graduate-Faculty Liaison
- 2016-2017 UCSB Earth Science Alumni Panel Organizer
- 2015-2017 UCSB Sci-Trek Outreach Program
- 2015-2016 UCSB Earth Science Distinguished Alumni Committee
- 2015 California Diversity Forum – Earth Science recruiter

TECHNICAL EXPERIENCE

ANALYTICAL AND LABORATORY

Laser-Ablation-Split-Stream ICP-MS for zircon U-Pb dating and Hf isotopes
Quadrupole-MS for zircon trace elements and whole rock major and trace elements
Scanning Electron Microscopy: EBSD and CL imaging
Optical microscopy: transmitted and reflected
Mineral separation, sample preparation, thin section preparation
Tetracam Agricultural Digital Camera
Bloodhound Gas Detection and Pason Gas Analyzer

FIELD

Lithologic mapping, configuring dataloggers and field instruments

SCIENTIFIC SOFTWARE

MATLAB, Python, Iolite for IsoPlot and IgorPro, Iqpet for Mac, Adobe Illustrator and Photoshop, GIMP, FIJI, PixelWrench2, IR Flash, R-Program, Quantum GIS, Dreamweaver, Microsoft, MacOS, Excel, LPlot, MPlot, ZoneWise, SES 4, iBall

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MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 500 Women Scientists
- Women in Science and Engineering (WiSE)
- American Geophysical Union (AGU)
- Association of Polar Early Career Scientists (APECS)
- Geochemical Society (GS)
- Geological Society of America (GSA)
- Mineralogical Society of America (MSA)
- Sigma Xi