

## GLORIA JIMENEZ

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Geosciences Department  
University of Arizona  
Tucson, AZ 85721

### EDUCATION

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#### University of Arizona, Tucson, AZ

Aug. 2013-present

- Ph.D. candidate in Geosciences (Paleoclimatology); minor Global Change. GPA 4.0.
- Co-advised: Julia Cole and Kevin Anchukaitis. Committee: Jonathan Overpeck, Joellen Russell, Jay Quade.
- Computational work: spatiotemporal analysis of proxy time series and gridded climate data using Matlab, including principal component and singular spectrum analysis, Monte Carlo simulations, trend detection and characterization, and mapping.
- Laboratory analyses: carbon and oxygen stable isotopic analysis on IRMS; elemental analysis on ICP-AES.

#### University of New Mexico, Albuquerque, NM

June 2011-Dec. 2013

- M.S., Earth and Planetary Sciences, May 2014. GPA 3.97.
- Thesis (awarded Outstanding M.S., 2014): *Reconstructing the Quaternary paleoclimate and paleohydrology of Egypt's Western Desert through travertine geochronology and geochemistry.*
- Advisor: Laura Crossey. Committee: Karl Karlstrom, Yemane Asmerom, Peter Fawcett.
- Laboratory analyses: U/Th dating,  $^{87}\text{Sr}/^{86}\text{Sr}$  analysis with an ICP-MS; carbon and oxygen stable isotopic analysis.

#### Carleton College, Northfield, MN

Sep. 2003-June 2007

- B.A., *magna cum laude*, Geology, concentration in Environmental and Technology Studies. GPA 3.71.
- Senior thesis (awarded Distinction): *Changes in soil carbon cycling across a nitrogen pollution gradient in the San Bernardino Mountains, California.*
- Exemplary rating on Sophomore Writing Portfolio, 2005.

### FELLOWSHIPS, AWARDS, AND SCHOLARSHIPS

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#### Fellowships

- Graduate Access Fellowship, University of Arizona (UA), 2013
- National Science Foundation (NSF) Graduate Research Fellowship, 2011-present
- EEE Black Fellowship, University of New Mexico (UNM) Department of Earth and Planetary Sciences, 2011-2012
- Wingspread Fellowship, Carleton College, 2005-2007

#### Awards and scholarships

- Philanthropic Educational Organization (P.E.O.) Scholar Award, 2016-2017
- Galileo Circle Scholarship, UA, 2015
- Environmental Professionals of Arizona Scholarship, 2015
- Carson Scholarship, UA, 2014-2015
- Best Poster, 42nd Annual GeoDaze Symposium, UA, April 2014
- Graduate Scholarship, UNM Department of Earth and Planetary Sciences, 2012 and 2013
- Sigma Xi, 2007, 2012
- Association for Women Geoscientists Minority Scholarship, 2006-2007
- National Merit Finalist, 2003

#### Grants for research and travel

- Global Change minor travel grant, for the American Geophysical Union (AGU) Fall Meeting, Dec. 2017
- Herbert E. Carter travel grant, for the AGU Fall Meeting, Dec. 2017
- UA Graduate and Professional Student Council (GPSC) travel grant, for the AGU Fall Meeting, Dec. 2017
- UA Institute of the Environment and Sustainable Climate Risk Management travel awards, for the Graduate Climate Conference (GCC) Fall Meeting, Oct. 2016

- American Meteorological Society Summer Policy Colloquium scholarship for course attendance, June 2016
- Herbert E. Carter travel grant, for attendance the AGU Fall Meeting, Dec. 2015
- UA GPSC travel grant, for the AGU Fall Meeting, Dec. 2015
- GPSC research grant for fieldwork and research supplies, University of Arizona, Dec. 2014
- GPSC travel grant for attendance at the AGU Fall Meeting, Dec. 2015
- Urbino Summer School in Paleoclimatology scholarship (NSF Geosciences directorate and Office of International Science and Engineering), July 2013
- Student Research Grant, UNM Graduate and Professional Student Association, for the AGU Fall Meeting, Dec. 2012.
- Research Project and Travel Grant, UNM Office of Graduate Studies, for the AGU Fall Meeting, Dec. 2012.

## PROFESSIONAL AND ACADEMIC EXPERIENCE

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**Staff scientist, on-call**, Haley & Aldrich, Inc., Tucson, AZ June 2016-present

- Planned and performed statistical and time series analysis for projects including contaminated site management, stable isotope geochemistry, and climate resilience.

**Participant**, American Meteorological Society Summer Policy Colloquium, Washington, D.C., June 5-14, 2016

- Attended immersion-style course designed to give scientists experience with the policy process.

**Independent contract editor**, American Journal Experts, Durham, NC May 2015-present

- Edited scientific papers written by non-native English speakers for sentence structure, grammar, and diction.
- Preferred editor, Jan. 2016-present.

**Participant**, Expert Witness Training Academy, William Mitchell College of Law, St. Paul, MN Aug. 2014

- Participated in simulations designed to improve scientific communication, particularly in a legal setting.

**Participant**, Urbino Summer School in Paleoclimatology, Urbino, Italy July 2013

- Scholarship recipient for summer course in reconstructing and modeling past climates.

**Research technician**, Oak Ridge National Laboratory, Oak Ridge, TN June 2007-Feb. 2009

- Monitored injection wells at the Y12 National Security Complex, analyzed datasets, created sampling protocol, and performed particle size analysis.
- Maintained facilities at FACE ecological site, conducted field measurements, and processed samples for analysis.

**Biogeochemistry and Climate Change Fellow**, University of California, Irvine June-Aug. 2006

- Collected soil samples and respiration rate data, purified CO<sub>2</sub> on a vacuum line, and prepared samples for accelerator mass spectrometer analysis; results contributed to a peer-reviewed paper (Nowinski et al., 2009).

**Research intern**, Nyanza Project, Kigoma, Tanzania June-Aug. 2005

- Participant in tropical lake studies field course; conducted individual project comparing sedimentary organic matter and carbonate minerals for use as a paleoclimate indicator; results published in technical report (Jimenez, 2005).

**Teaching assistant and laboratory worker**, Geology Department, Carleton College Nov. 2004-June 2007

- Teaching and laboratory assistant for several courses and undergraduate workshop; performed laboratory organization tasks, including cataloging minerals, fossil picking, and lab preparation.

**Intern**, Limnological Research Center, University of Minnesota, MN Aug. 2002-Dec. 2002

- Assisted with sediment core analysis, including sample preparation, grain size analysis, and laboratory organization; utilized research to write high school International Baccalaureate extended essay in Environmental Systems.

## SERVICE, OUTREACH, AND LEADERSHIP

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**Graduate Geology Club**, Department of Geosciences, UA

- Graduate student representative to faculty meetings. Jan. 2014-Aug. 2015
- Chair of peer mentoring committee. Jan. 2014-Dec. 2015
- Representative to Associated Graduate Council for the College of Sciences (AGCCS) Aug. 2014-present
- Outreach Coordinator, AGCCS Aug. 2015-present

**Graduate editor**, Office of Fellowships and Outreach, UA Aug.-Nov. 2014  
 •Provided essay editing, advice, and assistance to NSF Graduate Research Fellowship applicants.

**Awards committee chair**, 42nd and 43rd annual GeoDaze Symposia, UA April 2014; April 2015  
 •Organized and facilitated judging of student talks and posters.

**Junior Education Coordinator**, Tucson Gem and Mineral Show, Tucson, AZ Feb. 2014, 2015, 2016  
 •Designed, planned, and coordinated building of educational geology experiments for children; recruited, trained and supervised volunteers to present experiments over three-day event.

**Peace Corps Volunteer**, Fundación Cordillera Tropical, Cuenca, Ecuador Feb. 2009-May 2011  
 •Oversaw collection and analysis of hydrological monitoring data; designed laboratory analysis protocol and supervised setup; trained community park guards; created informational materials and maintained website.  
 •Vice President, Gender and Development Committee: supervised a high school scholarship program.  
 •Arts and Entertainment Section Editor for Peace Corps Ecuador's newspaper, *El Clima*.  
 •Performing member of University of Azuay Dance Group, Nov. 2009-May 2011.  
 •Yoga teacher, Escuela de Autorrealización, March 2010-May 2011.

**Founding member**, Momentum Dance Lab, Knoxville, TN Aug. 2007-Feb. 2009  
 •Dancer, choreographer, and teacher.  
 •Producer, Art Moves performance at Knoxville Museum of Art, Feb. 2008.  
 •Public Relations Officer July 2008-Feb. 2009; designed performance press kit and graphics, press releases, class schedules, fliers, and brochure.

## PRESENTATIONS AND PUBLICATIONS

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### Scientific

- Jimenez, G.**, Cole, J.E., Vetter, L., Thompson, D.M., Tudhope, A.W., A preindustrial to present record of SST from Darwin Island, Galápagos: constraining Eastern Pacific decadal variability. Presentation at the American Geophysical Union Fall Meeting, New Orleans, LA, Dec. 13, 2017.
- Jimenez, G.**, Cole, J.E., Thompson, D.M., Tudhope, A.W., *In review*. Galápagos corals reveal late twentieth century warming in the eastern equatorial Pacific. Submitted to *Geophysical Research Letters*.
- Jimenez, G.**, Cole, J.E., Thompson, D.M., Tudhope, A.W. Galápagos corals reveal late twentieth century warming in the eastern equatorial Pacific. Presentation at the Graduate Climate Conference, Seattle, Washington, October 28, 2016.
- Jimenez, G.**, Cole, J.E., Thompson, D.M., Tudhope, A.W. Galápagos corals reveal late twentieth century warming in the eastern equatorial Pacific. Presentation at the 44th annual GeoDaze Symposium, University of Arizona, Tucson, Arizona, April 1, 2016.
- Jimenez, G.**, Cole, J.E., ¿Adónde va El Niño? Análisis de las tendencias y promedio del Océano Pacífico a través de corales. Presentation at the Fundación Charles Darwin, Puerto Ayora, Galápagos, Ecuador, Jan. 26, 2015.
- Jimenez, G.**, Cole, J.E., Thompson, D.M., Tudhope, A.W. Changing trends and variance in Eastern Equatorial Pacific sea surface temperatures over the 20th century. Poster presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 18, 2015.
- Jimenez, G.**, Crossey, L.J., Karlstrom, K.E., Asmerom, Y., Polyak, V., *In prep*. Travertine from Egypt's Western Desert: a terrestrial record of North African paleohydrology and paleoclimate during the late Pleistocene. For submission to *Quaternary Research*.

- Jimenez, G.**, Crossey, L.J., Karlstrom, K.E., Asmerom, Y., Polyak, V. Travertine from Egypt's Western Desert: a terrestrial proxy for North African paleohydrology and paleoclimate during the Quaternary. Poster presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 11, 2013.
- Jimenez, G.**, Crossey, L.J., Karlstrom, K.E., Asmerom, Y., Polyak, V. Travertine from Egypt's Western Desert: a terrestrial proxy for North African paleohydrology and paleoclimate during the Quaternary. Poster presentation at the 42nd annual GeoDaze Symposium, University of Arizona, Tucson, AZ, April 10, 2013.
- Jimenez, G.**, Crossey, L.J., Karlstrom, K.E., Asmerom, Y., Polyak, V., De Sa Rego, P., Ricketts, J.W., Tafoya, A.J., Anan, T., Mohammed, A., and Farouk, S., 2012. Reconstructing Quaternary pluvial episodes and paleohydrology using travertines from Egypt's Western Desert. Poster presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 5, 2012.
- Nowinski, N.S., Trumbore, S.E., **Jimenez, G.**, and Fenn, M.E., 2009, Alteration of belowground carbon dynamics by nitrogen addition in southern California mixed conifer forests: *Journal of Geophysical Research*, v. 114.
- Jimenez, G.**, 2007, Changes in soil carbon cycling across a nitrogen pollution gradient in the San Bernardino Mountains, California, Senior Comprehensive Exercise, Carleton College.
- Jimenez, G.**, 2005, Distribution of organic matter and carbonate minerals in surface sediments of TAFIRI Bay and the Luiche Platform, Lake Tanganyika: Implications for paleoclimate reconstruction: *Nyanza Project, 2005 Annual Report*, The University of Arizona, p. 59-66.

### **Outreach**

- Jimenez, G.** Featured Scholar Award recipient. Presentation at the Philanthropic Educational Organization Annual Conference, Phoenix, AZ, May 6, 2017.
- Jimenez, G.** Taking the ocean's temperature: A corals'-eye view of El Niño and climate change. Presentation at Kino Rotary Club, Los Portales Restaurant, Tucson, Arizona, Dec. 9, 2016.
- Jimenez, G.** Insights on climate change from corals. Presentation to the Philanthropic Education Organization Chapter BB, Tucson, Arizona, May 2016.
- Jimenez, G.** Taking the ocean's temperature: A corals'-eye view of El Niño. Presentation at Grad Slam, University of Arizona, Tucson, Arizona, Mar. 24, 2015.
- Jimenez, G.** Taking the ocean's temperature: A corals'-eye view of El Niño. Presentation at Borderlands Brewing Company, University of Arizona Science Café Series, Tucson, Arizona, Mar. 12, 2015.

### **Other**

- Jimenez, G.** "Embracing Water." August 2016. *Terrain.org*, 21 August 2016, <http://www.terrain.org/2016/a-life-of-science/embracing-water/>.
- Jimenez, G.** "Justice is blind and experts should be, too." *SciView Fall 2015*, <http://journalism.arizona.edu/SciView>.
- Jimenez, G.** How to write about climate change. Invited presentation to Science Journalism course (JOUR 572), University of Arizona, Tucson, Arizona, Dec. 1, 2015.
- Jimenez, G.** "Immortality lecture: Concept of 'self' can affect behavior." *Arizona Daily Star*, Nov. 12, 2015.

## **PROFESSIONAL MEMBERSHIPS**

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•American Geophysical Union (AGU), Student Member	2012-present
•Arizona Geological Society, Student Member	2014-present
•Geological Society of America (GSA), Student Member	2012-2014
•Earth Science Women's Network, Regular Member	2014-present
•American Meteorological Society (AMS), Student Member	2016-present