

GLORIA JIMENEZ

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EDUCATION

Ph.D., Geosciences, University of Arizona; GPA 4.0 Dec. 2018

- Co-advised: Julia Cole and Kevin Anchukaitis. Committee: Joellen Russell, Jessica Tierney. GPA 4.0.
- Dissertation: *Reconstructing tropical Pacific climate variability from coral archives*.
- Computational work: spatiotemporal data analysis of proxy, in-situ, and gridded time series using MATLAB, including mapping, principal component analysis, and trend characterization, and developing reduced space field reconstruction technique.
- Laboratory analyses: carbon and oxygen stable isotopic analysis on IRMS; elemental analysis on ICP-AES.

M.S., Earth and Planetary Sciences, University of New Mexico; GPA 3.97 Dec. 2013

- Advisor: Laura Crossey. Committee: Yemane Asmerom, Peter Fawcett, Karl Karlstrom.
- Thesis (awarded Outstanding M.S., 2014): *Travertine from Egypt's Western Desert: a terrestrial record of North African paleohydrology and paleoclimate during the late Pleistocene*.
- Laboratory analyses: U/Th dating, ⁸⁷Sr/⁸⁶Sr analysis with an ICP-MS; carbon and oxygen stable isotopic analysis.

B.A., Geology, *magna cum laude*, Carleton College; GPA 3.71 June 2007

- 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.

PROFESSIONAL AND ACADEMIC EXPERIENCE

Senior Scientist

Haley & Aldrich, Inc., Tucson, AZ June 2016-present

- Led analytical design, statistics, data visualization, and presentation of environmental data for contaminated site management and climate resilience projects; automating analyses in MATLAB reduced costs and improved time to completion by >70%.

Senior Technical Editor

American Journal Experts, Durham, NC May 2015-present

- Edited over 350 scientific papers written by non-native English speakers in natural, social, and medical sciences; improved mechanics and structure to more effectively convey conclusions.

Peace Corps Volunteer

Fundación Cordillera Tropical, Cuenca, Ecuador Feb. 2009-May 2011

- As part of a cross-cultural team, oversaw collection and analysis of hydrological data; wrote laboratory protocols; trained community park guards; and created promotional print materials and website.

Research Technician

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

- Worked independently to conduct long-term field and laboratory measurements and maintain two ecological sites; monitored injection wells at the Y12 National Security Complex.

Biogeochemistry and Climate Change Fellow

University of California, Irvine, Irvine, CA June-Aug. 2006

- Collected soil samples and respiration rate data, purified CO₂ 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 and Laboratory Assistant

Geology Department, Carleton College, Northfield, MN

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.

OUTREACH AND LEADERSHIP

Graduate Geology Club, Department of Geosciences, University of Arizona

- 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-Aug. 2017
- Outreach Coordinator, AGCCS Aug. 2015- Aug. 2017

Graduate editor

Office of Fellowships and Outreach, University of Arizona

Aug.-Nov. 2014

- Provided essay editing, advice, and assistance to NSF Graduate Research Fellowship applicants.

Awards committee chair

42nd and 43rd annual GeoDaze Symposia, University of Arizona

Sep. 2013-Aug. 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.

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.

WORKSHOPS AND TRAINING

- American Meteorological Society Summer Policy Colloquium, Washington, D.C. June 5-14, 2016
- Expert Witness Training Academy, William Mitchell College of Law, St. Paul, MN Aug. 2014
- Urbino Summer School in Paleoclimatology, Urbino, Italy July 2013

SELECTED HONORS AND AWARDS

- Best Climate Presentation, GeoDaze graduate symposium, University of Arizona 2018
- Southern Arizona Environmental Management Society Scholarship 2017
- Philanthropic Educational Organization Scholar Award 2016

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| Environmental Professionals of Arizona Scholarship | 2015 |
| Carson Scholarship in Science Communication, University of Arizona | 2014 |
| Best Poster Presentation, GeoDaze graduate symposium, University of Arizona | 2014 |
| Graduate Access Fellowship, University of Arizona | 2013 |
| National Science Foundation Graduate Research Fellowship | 2011 |
| EEE Black Fellowship, University of New Mexico | 2011 |
| Sigma Xi | 2007, 2012 |
| Association for Women Geoscientists Minority Scholarship | 2006 |
| National Merit Finalist | 2003 |

PUBLICATIONS

Scientific

- Jimenez, G.**, Cole, J.E., Anchukaitis, K.J., Vetter, L., Thompson, D.M., Tudhope, A.W., In prep. Reconstructing eastern Pacific climate variability with a preindustrial to present record of SST from Darwin Island, Galápagos. For submission to *Paleoceanography*.
- Jimenez, G.**, Anchukaitis, K.J., Cole, J.E., In prep. Reduced space reconstruction of Pacific Basin sea surface temperature. For submission to *Earth and Planetary Science Letters*.
- Abotalib, A.Z., Sultan, M., **Jimenez, G.**, Crossey, L., Karlstrom, K., Forman, S., Krishnamurthy, R.V., Elkadiri, R., Polyak, V., 2019, Complexity of Saharan paleoclimate reconstruction and implications for modern human migration. *Earth and Planetary Science Letters*, v. 508.
- Jimenez, G.**, Cole, J.E., Thompson, D.M., Tudhope, A.W., 2018, Galápagos corals reveal late twentieth century warming in the eastern tropical Pacific. *Geophysical Research Letters*, v. 45.
- 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*.
- 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.

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.** "Immortality lecture: Concept of 'self' can affect behavior." *Arizona Daily Star*, Nov. 12, 2015.

PRESENTATIONS

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. 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., ¿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. 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.

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.** How to write about climate change. Invited presentation to Science Journalism course (JOUR 572), University of Arizona, Tucson, Arizona, Dec. 1, 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.

PROFESSIONAL MEMBERSHIPS

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| American Geophysical Union | 2012-present |
| Arizona Geological Society | 2014-present |
| Geological Society of America | 2012-2014 |
| Earth Science Women's Network | 2014-present |
| American Meteorological Society | 2016-present |