

Curriculum Vitae for Pedro J. Marenco

Dr. Pedro Jose Marenco
 Department of Geology
 Bryn Mawr College
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Education

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| University of Southern California | Geological Sciences | Ph.D., 2007 |
| University of Southern California | Geological Sciences | M.S., 2002 |
| University of Southern California | Computer Engineering and Computer Science | B.S., 2000 |

Academic Appointments

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| Bryn Mawr College | Assistant Professor | 2009-present |
| University of California Riverside | Chancellor's Postdoctoral Fellow | 2007-2009 |

Peer-reviewed Publications

In Prep

- Marenco, P.J., Corsetti, F.A., Richoz, S., Baud, A., Bottjer, D.J., Hammond, D.E., Berelson, W., Kaufman, A.J., *In prep.* Combined Permo-Triassic sulfur and carbon isotope variations and their implications for the End-Permian mass extinction. *To be submitted to Geobiology*, 37 manuscript pages.
- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., Kaufman, A.J., *In prep.* Permo-Triassic sulfur isotopes in carbonate associated sulfate from western North America: implications for the biotic recovery from the end Permian mass extinction. *To be submitted to Geology*, 15 manuscript pages.

Published

- Marenco, P.J., Corsetti, F.A., Kaufman, A.J., Bottjer, D.J., 2008. Environmental and diagenetic variations in carbonate associated sulfate: An investigation of CAS in the Lower Triassic of the western USA. *Geochimica et Cosmochimica Acta*, vol. 72, p. 1570-1582.
- Marenco, P.J., Corsetti, F.A., Hammond, D.E., Kaufman, A.J., Bottjer, D.J., 2008. Oxidation of pyrite during extraction of carbonate associated sulfate. *Chemical Geology*, vol. 247, p. 124-132.

- Corsetti, F.A., Kidder, D.L., Marenco, P.J., 2006. Trends in oolite dolomitization across the Neoproterozoic-Cambrian boundary: A case study from Death Valley, California. *Sedimentary Geology*, vol. 191, p. 135-150.
- Clapham, M.E., Bottjer, D.J., Powers, C.M., Bonuso, N., Fraiser, M.L., Marenco, P.J., Dornbos, S.Q., Pruss, S.B., 2006. Assessing the ecological dominance of Phanerozoic marine invertebrates. *Palaios*, vol. 21, p. 431-441.
- Corsetti, F.A., Baud, A., Marenco, P.J., Richoz, S., 2005. Summary of Early Triassic carbon isotope records. *Comptes Rendus Palevol*, vol. 4, p. 473-486.

Book Chapters

- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., 2002. Noonday tubes: observations and reinterpretations based on better preservation from a new locality. *In Proterozoic-Cambrian of the Great Basin and Beyond, Pacific Section SEPM Book #93*, p. 31-41.

Invited Talks

- Marenco, P.J. 2010, Contrasting shallow and deep paleoenvironments and the biotic recovery from the End Permian mass extinction. Dickinson College, February 22, 2010.
- Marenco, P.J. 2009. Using geochemistry for paleobiology. Haverford/Bryn Mawr Bi-College Chemistry Colloquium. December 4, 2009.
- Marenco, P.J. 2009. Geochemical and sedimentological controls on *Conophyton* formation from the Neoproterozoic Gamuza Formation of Sonora, Mexico. Dickinson College, February 22, 2009.
- Marenco, P.J., 2009. Understanding the greatest mass extinction: insights from sulfur isotope geochemistry. Bryn Mawr College, February 2, 2009.
- Marenco, P.J., 2008. Sulfur isotope chemostratigraphy and the End Permian mass extinction. University of Massachusetts Amherst, June 9, 2008.
- Marenco, P.J., 2008. Sulfur isotopes and the End Permian mass extinction. University of California Santa Cruz, June 3, 2008.
- Marenco, P.J., 2008. The sulfur cycle through time: what we know and how we know it. University of California Davis, guest lecture in Graduate Seminar in Biogeochemical Cycles, February 7, 2008.
- Marenco, P.J., Corsetti, F.A., Hammond, D.E., Kaufman, A.J., Bottjer, D.J., 2007. Fidelity of the Carbonate Associated Sulfate signal: Implications for geobiological studies. Southern California Geobiology Symposium, California Institute of Technology.
- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., Kaufman, A.J., 2006. Early Triassic sulfur isotopes: implications for linking land, sea and air following the end-Permian mass extinction. Geological Society of America annual meeting, Abstracts with Programs, vol. 38, no. 7.

Marengo, P.J., Corsetti, F.A., Richoz, S., Baud, A., Bottjer, D.J., Hammond, D., Berelson, W., Kaufman, A.J., 2006. Combined sulfur and carbon isotope anomalies and the End Permian mass extinction. Southern California Geobiology Symposium, University of California at Riverside.

Conference Abstracts

- Marengo, P.J., Griffin, J.M., Lepes, E.M., Clapham, M.E., Fraiser, M.L., 2010. Refining the timing of Early Triassic biotic and environmental events: results from the Moenkopi Formation of Nevada. Geological Society of America annual meeting, Abstracts with Programs.
- Griffin, J.M., Marengo, P.J., Fraiser, M.L., Clapham, M.E., 2010. Stromatolite-sponge-*Tubiphytes* reefs in the Virgin Limestone Member of the Moenkopi Formation, Nevada: Implications for biotic recovery following the end-Permian Mass Extinction. Geological Society of America annual meeting, Abstracts with Programs.
- Marengo, P.J., Corsetti, F.A., Richoz, S., Baud, A., Bottjer, D.J., Hammond, D.E., Berelson, W.M., Kaufman, A.J., 2008. Sulfur and carbon geochemistry and the End Permian mass extinction. Geological Society of America annual meeting, Abstracts with Programs, vol. 40, no. 6.
- Marengo, P.J., Corsetti, F.A., Kaufman, A.J., Bottjer, D.J., 2007. Carbonate associated sulfate, euxinia, the Siberian Traps and the End Permian mass extinction. Geological Society of America annual meeting, Abstracts with Programs, vol. 39, no. 6.
- Marengo, P.J., Corsetti, F.A., Bottjer, D.J., Baud, A., Kaufman, A.J., 2006. Sulfur isotope anomalies and the biotic recovery from the End-Permian mass extinction. Second International Palaeontological Congress, Beijing, China.
- Marengo, P.J., Corsetti, F.A., Kaufman, A.J., Bottjer, D.J., 2005. Sulfur isotopic variability of CAS along an Early Triassic environmental transect. Geological Society of America annual meeting, Abstracts with Programs, vol. 37, no. 7.
- Marengo, P.J., Corsetti, F.A., Baud, A., Bottjer, D.J., Kaufman, A.J., 2005. Euxinia as the cause of the end-Permian mass extinction: evidence from sulfur isotope chemostratigraphy. Earth Systems Processes 2 meeting, Calgary, Alberta, Canada, Geological Society of America Specialty Meetings, Abstracts with Programs, no. 1.
- Marengo, P.J., Corsetti, F.A., Bottjer, D.J., Baud, A., Kaufman, A.J., 2005. Sulfur isotope anomalies and the end Permian mass extinction. North American Paleontological Convention, Halifax, Nova Scotia, Canada, Programme and Abstracts, PaleoBios, vol. 25, supplement to no. 2.
- Marengo, P.J., Corsetti, F.A., Bottjer, D.J., Baud, A., Kaufman, A.J., 2005. Sulfur isotope anomalies across the Permo-Triassic boundary and through the Early Triassic. International Symposium on Triassic Chronostratigraphy and Biotic Recovery, Chaohu, China, Albertiana, vol. 33.

- Marenco, P.J., Corsetti, F.A., Baud, A., Bottjer, D.J., Kaufman, A.J., 2004. Sulfur isotope anomalies across Permo-Triassic boundary sections in Turkey. Geological Society of America annual meeting, Abstracts with Programs, vol. 36, no. 5.
- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., Kaufman, A.J., 2003. Killer oceans of the Early Triassic. Geological Society of America annual meeting, Abstracts with Programs, vol. 35, no. 6.
- Corsetti, F.A., Pruss, S.B., Marenco, P.J., Kaufman, A.J., Bottjer, D.J., 2003. Calcium carbonate seafloor fans from Neoproterozoic and Lower Triassic strata, Death Valley region: a snowball's chance? Geological Society of America annual meeting, Abstracts with Programs, vol. 35, no. 6.
- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., 2003. Strange chemistry in Early Triassic oceans. California Paleontology Conference abstracts, PaleoBios, vol. 23, no. 1.
- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., Kaufman, A.J., 2002. Chemostratigraphy of the Union Wash Formation: Implications for the Early Triassic recovery from the Permian Triassic mass extinction. Geological Society of America annual meeting, Abstracts with Programs, vol. 34, no. 6.
- Corsetti, F.A., Kaufman, A.J., Marenco, P.J., 2002. A re-evaluation of the number and magnitude of Neoproterozoic ice ages. Geological Society of America, Rocky Mountain Section annual meeting, Abstracts with Programs, vol. 34, no. 4.
- Marenco, P.J., Corsetti, F.A., Bottjer, D.J., 2001. Enigmatic "tube-like" structures in the Noonday dolomite: constraints on possible hypotheses. Geological Society of America annual meeting, Abstracts with Programs, vol. 33, no. 6.
- Marenco, P.J., and Bottjer, D.J., 2001. Early Triassic gastropods in theoretical morphospace. California Paleontology Conference abstracts, PaleoBios, vol. 21, supplement to no. 1.

Awards and Grants

NSF EAR 0921127 Collaborative Research: New Chemo- and Biostratigraphic Framework for the Lower Triassic of the Western U.S.: Towards a high-resolution understanding of Early Triassic events.

Start Date: 10/1/2009

End Date: 10/1/2011

Principal Investigator, Marenco, P.J.

Award amount: \$209,156.00

University of California at Riverside, Chancellor's Postdoctoral Fellowship, 2007.

Geological Society of America, Graduate Student Research Grant, 2004.

University of Southern California, Staff Club Scholarship, 2004.

American Association of Petroleum Geologists, Classen Family Student Grant, 2004.

Paleontological Society, Stephen J. Gould Student Grant-in-Aid, 2003.

Geological Society of America, Graduate Student Research Grant, 2002.

USC Department of Earth Sciences, Graduate Student Research Grant, 2002.

Paleontological Society, Graduate Student Research Grant, 2000.

USC Department of Earth Sciences, Graduate Student Research Grant, 2000.

University of Southern California, Diversity Fellowship for PhD Research, 2000.

Sigma Gamma Epsilon, W.A. Tarr Award for Meritorious Work in Earth Sciences, 2000.

University of Southern California, Dean's Scholarship, 1996.

Teaching Experience

Instructor, Bryn Mawr College, GEOL 203, Invertebrate Paleobiology, Fall 2010.

Instructor, Bryn Mawr College, GEOL 236, Evolution, Fall 2010.

Instructor, Bryn Mawr College, GEOL 360, Time Scales of Climate Change, Fall 2010.

Instructor, Bryn Mawr College, GEOL 350, Snowball Earth Seminar, Spring, 2010

Instructor, Bryn Mawr College, GEOL 102, Earth History, Spring, 2010

Instructor, Bryn Mawr College, GEOL B403, Supervised Research, Fall 2009.

Instructor, Bryn Mawr College, GEOL 203, Invertebrate Paleobiology, Fall 2009.

Instructor, Bryn Mawr College, GEOL 236, Evolution, Fall 2009.

Instructor, University of California Davis, COSMOS program for high school students interested in math and science, Anatomy of Global Climate Change, Summer 2008.

Invited Guest Lecturer, University of California Davis, Graduate Seminar in Biogeochemical Cycles, Winter 2008.

Teaching Assistant, University of Southern California, GEOL 107, Oceanography, Summer 2007.

Teaching Assistant, University of Southern California, GEOL 333, Paleontology and the Evolution of Life, Fall 2004.

Teaching Assistant, University of Southern California, GEOL 105, Planet Earth, Spring 2004.

Teaching Assistant, University of Southern California, GEOL 107, Oceanography, Fall 2003.

Student Advisement

Summer 2010-present, Bryn Mawr College, Julie Griffin.

Summer 2010-present, Bryn Mawr College, Erin Miller.

Summer 2009-2010, Bryn Mawr College, Ryan Bugnaski.

Short Courses and Other Academic Activities

Fall, 2009: New faculty pedagogy seminar, Bryn Mawr College Teaching and Learning Initiative.

Summer and fall, 2009: Syllabus development workshop, Bryn Mawr College Teaching and Learning Initiative.

Spring 2007: Sequence stratigraphy for graduate students, taught by Vitor Abreu, and Jack Neal, ExxonMobil Exploration Company.

Spring 2005: Heterogeneity within carbonates – guidelines from modern examples, taught by Paul (Mitch) Harris, ChevronTexaco Energy Technology Company.

Additional Professional Experience

Summer 1998: Specialized Applications Programmer (Intern), IBM San Jose, California.

Summer 1997: Technical Support Intern, IBM Santa Teresa Labs, San Jose, California.