

Mark A. Miller

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Education **Princeton University**

Graduate study, Geosciences, 2004-2007

University of California, Davis

B.S., Atmospheric Science, 2004

Honors

- 2004 Graduate Fellowship, Princeton University Geosciences
- 2004 Departmental Citation, UC Davis Atmospheric Sciences
- 2003 Superior Presentation, Sigma Xi Student Research Conference
- 2002 Merit scholarship, UC Davis Atmospheric Sciences

Laboratory experience

University of California, Irvine

Keck Carbon Cycle Accelerator Mass Spectrometry Laboratory, 2009

Vacuum line graphitization of terrestrial samples for AMS radiocarbon analysis

University of California, Davis

Stable Isotope Laboratory, Geology Department, 2002-2004

Processing of deep-sea sediments to separate specific benthic and planktonic foraminifera species;

Sample combustion and isolation using cold traps on vacuum lines

$\delta^{13}\text{C}$, $\delta^{18}\text{O}$, and δD analysis of carbonate and natural water samples using isotope ratio mass spectrometry

Lawrence Livermore National Laboratory

Center for Accelerator Mass Spectrometry, 2003

Graphitization of foraminifera samples for AMS radiocarbon analysis

Selected

American International School - Salzburg, Austria

Teaching

Chemistry, physics, biology, and health teacher, grades 9-12, (2010-2011)

Fusion Academy, Solana Beach, California

Chemistry, physics, algebra, precalculus teacher, grades 8-12 (2008-2009)

Western Governors University - Salt Lake City, Utah

Science test item writer and developer of online undergraduate assessments in physics, chemistry, biology, Earth science, and astronomy (2008)

High Tech High North County, San Marcos, California

9th grade Integrated Math and Science (2007-2008)

Princeton University Department of Geosciences

Assistant in Instruction for *A Guided Tour of the Solar System* and *Earth's Natural Hazards* (2006-2007)

Other skills

Goethe Institut

Zertifikat C1 - Zentrale Mittelstufenprüfung, San Francisco (2013)

Certifies competence in written and spoken German

Freelance German translator since 2013

Abstracts

Spero, H.J., Miller, M.A., Guilderson, T.P., 2005. Eastern Equatorial Pacific Radiocarbon Age Anomalies and Ventilation Ages During the Late Glacial and Early Deglaciation. The 10th International Conference for Accelerator Mass Spectrometry.

Miller, M.A., Guilderson, T.P., Spero, H.J., 2003. Eastern Equatorial Pacific ^{14}C reservoir age variability during the last deglaciation. American Geophysical Union, Fall Meeting 2003, Abstract #PP12A-0228. URL = <http://adsabs.harvard.edu/abs/2003AGUFMPP12A0228M>

Articles (non-academic)

Miller, M.A., 2003. Coral reef populations in serious decline. The California Aggie, 10/8/2003.

Miller, M.A., 2002. Geothermal heating at the California Correctional Center, Susanville, California. Geo-Heat Center Bulletin 23(2):16-19.