

CURRICULUM VITAE
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Education

- 1999 Ph.D. from **Massachusetts Institute of Technology/Woods Hole Oceanographic Institution** Joint Program in Oceanography, Thesis “Tectonic Evolution and Midplate Volcanism in the South Pacific,” supervised by Marcia McNutt
- 1992 B.S. Physics (minor Mathematics) with High Honors, **Eckerd College**, St. Petersburg, Florida

Employment

- 2004–present Lecturer, **Fairleigh Dickinson University**
- 2000–2004 Postdoctoral Fellow and Research Associate, **Monterey Bay Aquarium Research Institute**
- 1999 Chateaubriand Fellow, **Université de Bretagne Occidentale**, Brest, France
- 1992–1998 Research Assistant, **Massachusetts Institute of Technology**

Teaching Experience

- 2004 *General Physics* (PHYS 1001), Lecturer, **Fairleigh Dickinson University**. I am responsible for all lectures and laboratories for this algebra-based introductory physics class for non-majors.
- 2003 *Reflection Seismology* (ES 168), Lecturer, **University of California, Santa Cruz** (co-taught with Casey Moore). I was responsible for one-half of this class, including lectures and laboratories on the theory, acquisition, and processing of seismic reflection data.
- 2003 *Introduction to Astronomy* (AST 1), Lecturer, **Hartnell College**, Salinas, CA. I was responsible for the teaching of two sections of this lecture class with planetarium demonstrations and telescope observations.
- 1990–1992 Teaching Assistant, Physics & Mathematics, **Eckerd College**. I led study sessions in physics and mathematics and was responsible for grading problem sets and exams for introductory physics classes.

Awards and Honors

- Sept. 2003 Université de Paris 7, Visiting Assistant Professor, Institut de Physique du Globe de Paris
- 2000–2002 Monterey Bay Aquarium Research Institute Postdoctoral Fellowship
- 1999 Chateaubriand Fellowship from the French government for postdoctoral study
- 1992–1995 National Science Foundation Graduate Fellowship

Publications

- Jordahl, K. A.**, M. K. McNutt, and D. W. Caress, Multiple episodes of volcanism in the Southern Austral Islands: Flexural constraints from bathymetry, seismic reflection and gravity data, *J. Geophys. Res.*, **109**, B06103, doi:10.1029/2003JB002885, 2004.
- Jordahl, K.**, D. Caress, M. McNutt and A. Bonneville, Seafloor topography and morphology of the Superswell region, in *Oceanic Hotspots*, R. Hékinian, P. Stoffers and J.-L. Cheminée, eds., pp. 9–28, Springer-Verlag, 2004.
- Bonneville, A., R. Le Suavé, L. Audin, V. Clouard, L. Dosso, P.Y. Gillot, A. Hildenbrand, P. Janney, **K. Jordahl** and K. Maamaatuaiahutapu, Arago Seamount: The missing hot spot found in the Austral Islands, *Geology*, **30**, 11, 1023–1026, 2002.
- Harris, R. N., R. P. Von Herzen, M. K. McNutt, G. Garven, and **K. Jordahl**, Submarine hydrogeology of the Hawaiian archipelagic apron: Part 1, Heat flow north of Oahu and Maro Reef, *J. Geophys. Res.*, **105**, 21,353–21,369, 2000.
- Jordahl, K.A.**, M. K. McNutt, and H. Zorn, Pacific-Farallon relative motion 42–59 Ma determined from magnetic and tectonic data from the Southern Austral Islands, *Geophys. Res. Lett.*, **25**, 2869–2872, 1998.
- McNutt, M. K., D. W. Caress, J. Reynolds, **K. A. Jordahl**, and R. A. Duncan, Failure of Plume Theory to Explain Midplate Volcanism in the Southern Austral Islands, *Nature*, **389**, 479–482, 1997.
- Jordahl, K. A.**, M. K. McNutt, H. F. Webb, S. E. Kruse, and M. G. Kuykendall, Why there are no earthquakes on the Marquesas Fracture Zone, *J. Geophys. Res.*, **100**, 24,431–24,447, 1995.
- Keleman, P. B., J. A. Whitehead, E. Aharonov and **K. A. Jordahl**. Experiments on flow focusing in soluble porous media, with applications to melt extraction from the mantle. *J. Geophys. Res.*, **100**, 475–496, 1995.

Published Abstracts

- Jordahl, K.**, C. K. Paull, W. Ussler, III, I. W. Aiello, P. Mitts, H. G. Greene, and S. Gibbs, Geology of Smooth Ridge: MARS-IODP cabled observatory site, *EOS, Trans. AGU, 2004 Fall Meeting Suppl.*, 2004.
- Jordahl, K.**, M. McNutt and L. Christiansen, Low heat flow values measured on the Hawaiian Ridge, *EOS, Trans. AGU, 2001 Fall Meeting Suppl.*, 2001.

- Jordahl, K.** and A. Bonneville, A new bathymetry map of the Austral Island region, *EOS, Trans. AGU, 2000 Fall Meeting Suppl.*, 2000.
- Jordahl, K. A.**, M. Maia and J. Francheteau, Morphology of the Foundation Seamounts, *EOS, Trans. AGU, 1999 Fall Meeting Suppl.*, 1999.
- Jordahl, K. A.** and M. K. McNutt, Archipelagic aprons: Are they all they're stacked up to be?, *EOS, Trans. AGU, 1998 Fall Meeting Suppl.*, 1998.
- Jordahl, K. A.**, Volcanic history of the Southern Austral Islands and seamounts, Geol. Soc. Am. Penrose Conference, *Evolution of Ocean Island Volcanoes*, 1998.
- Jordahl, K.**, M. K. McNutt and P. Buhl, Volcanism in the Southern Austral Islands: Time history, tectonic control, and large landslide events, *EOS, Trans. AGU, 1997 Fall Meeting Suppl.*, **78**, 46, F720, 1997.
- Jordahl, K.** and M. K. McNutt, Reflection seismic profiling of the Austral Islands, *EOS, Trans. AGU, 1996 Fall Meeting Suppl.*, **77**, 46, F705, 1996.
- Jordahl, K.**, H. F. Webb and M. K. McNutt, The Marquesas Fracture Zone scarp: Flexural or volcanic? *EOS, Trans. AGU, 1992 Fall Meeting Suppl.*, **73**, 43, F586, 1992.

Professional Activities

Organizing committee member, 2005 German-American Frontiers of Science Symposium. Invited participant, 2004 German-American Frontiers of Science Symposium (sponsored by the U. S. National Academy of Sciences and the Alexander von Humboldt Foundation).

Proposed and organized a special session at the 2000 Fall Meeting of the American Geophysical Union on midplate volcanism in French Polynesia, jointly with Alain Bonneville of the Institut de Physique du Globe, Paris

Journal referee, *Journal of Geophysical Research*, *Geophysical Research Letters*, *Tectonophysics*

Member of the American Geophysical Union since 1991

Field Experience

I have participated in five major research expeditions in the South Pacific and near the Hawaiian Islands, as well as a number of shorter cruises in Monterey Bay. In May 2001 I was chief scientist for two days of dives with ROV *Tiburón* conducting a heat flow survey aboard the *R/V Western Flyer* on the Hawaiian Ridge.

I have been involved with geological field trips in California, Newfoundland, the Basin and Range, New England, the Hawaiian Islands and the Galapagos Islands.

Community Service

2001–present **Ventana Wilderness Alliance**, a grassroots nonprofit organization dedicated to protecting the northern Santa Lucia Mountains of California. I was an advocate and volunteer coordinator for the successful campaign to expand the Ventana wilderness by over 50,000 acres by act of Congress in 2002. I have been a hike leader and outings coordinator, and joined the board of directors in January 2003.

Research Interests

- Midplate volcanism and hotspots
- Tectonic and thermal evolution of the oceanic lithosphere
- Physics of porous flow and applications to hydrothermal circulation and melt extraction
- Seismic stratigraphy of continental margins
- Volcanism and tectonics of terrestrial planets and satellites

References

Available upon request.