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### **EDUCATION:**

Ph.D., Geophysics, Massachusetts Institute of Technology, June, 1995.  
Dissertation: *Structure and Anisotropy of the Upper Mantle*  
M.S., Geology, University of Michigan, December, 1990.  
B.S., Geophysics, Brown University, May, 1986.

### **EMPLOYMENT HISTORY:**

2006-Present: Doherty Research Scientist, Lamont-Doherty Earth Observatory of Columbia University.  
2003-2006: Doherty Associate Research Scientist, Lamont-Doherty Earth Observatory of Columbia University.  
1998-2003: Assistant Professor, School of Earth and Atmospheric Sciences, Georgia Institute of Technology.  
1995-1998: Post-Doctoral Associate, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology.  
1990-1995: Graduate Research and Teaching Assistant, Department of Earth, Atmospheric, and Planetary Sciences, MIT.  
1988-1990: Graduate Research and Teaching Assistant, Department of Geological Sciences, University of Michigan, Ann Arbor.  
1986-1988: Environmental Geologist, ICF Technology Inc., Fairfax, VA.

### **FIELD EXPERIENCE:**

Chief Scientist, Cruise SCOoba2NH, R/V New Horizon, Gulf of California, Oct 2006.  
Chief Scientist, Cruise SCOoba1NH, R/V New Horizon, Gulf of California, Oct 2005.  
Co-Principal Investigator, *Canadian Northwest Seismic Experiment*, May 2003-Oct 2005.  
Co-Chief Scientist, Cruise EW0106, R/V *Maurice Ewing*, western Atlantic, June 2001.

### **PROFESSIONAL AWARDS:**

Sigma Xi Outstanding Young Faculty, Georgia Institute of Technology, 2002.

### **REFEREED PUBLICATIONS (\*indicates student first author):**

\*Hansen, S.E., J.B. Gaherty, S.Y. Schwartz, A.J. Rodgers, and A.M.S. Al-Amri, Seismic velocity structure and depth-dependence of anisotropy in the Red Sea and Arabian Shield from surface-wave analysis, *J. Geophys. Res.*, **113**, B10307, doi:10.1029/2007JB005335, 2008.

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- \*Delorey, A.A., R.A. Dunn, and J.B. Gaherty, Surface Wave Tomography of the Upper Mantle Beneath the Reykjanes Ridge with Implications for Ridge-Hotspot Interaction, *J. Geophys. Res.*, **112**, B08313, doi:10.1029/2006JB004785, 2007.
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- \*Saltzer, R., J.B. Gaherty, and T.H. Jordan, What does vertical shear-wave splitting measure when the azimuthal anisotropy varies with depth?, *Geophys. J. Int.*, **141**, 374-390, 2000.
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**NON-REFEREED REPORTS:**

Gaherty, J.B., G. Hirth, and G. A. Abers, Report on MARGINS Workshop: Interpreting Upper-Mantle Images, *MARGINS Newsletter*, No. 17, 1-5, Fall 2006.

Gaherty, J.B., T.-K. Hong, and L. Zhao, Regionalization of crustal and upper-mantle *Q* structure in eastern Eurasia using multiple regional waves, *Proceedings of the 28<sup>th</sup> Annual Seismic Research Review*, 2006.

Jordan, T.H. J.B. Gaherty, M. Kato, and O. van Genebeek, Regional upper-mantle structures and their interpretation in terms of small-scale, anisotropic heterogeneities, *Proceedings of the 18th Annual Seismic Research Symposium*, Lewkowicz, McPhetres, and Reiter, Ed., Phillips Laboratory, pp. 361-370, 1996.

Jordan, T.H. and J.B. Gaherty, Stochastic modeling of small-scale, anisotropic structures in the continental upper mantle, *Proceedings of the 17th Annual Seismic Research Symposium*, Lewkowicz, McPhetres, and Reiter, Ed., Phillips Lab., pp. 433-444, 1995.

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