

ANDREAS FICHTNER

Curriculum Vitae

Personal Data:

Date of birth: June 7, 1979
Place of birth: Rochlitz, Germany
Nationality: German
Marital status: single

Education:

1999-2002: University of Mining and Technology, Freiberg, Germany
Bachelor in Geophysics

2002-2003: Fulbright student at the University of Washington, Seattle, USA

2003-2005: Ludwig Maximilian University, Munich, Germany
Master in Geophysics (with distinction)

since 2005: Ludwig Maximilian University, Munich, Germany
PhD student

Oct-Dec 2006: Institut de Physique du Globe, Paris, France

Jan-Jul 2007: Res. School of Earth Sci., Australian National University, Canberra, Australia

Awards / Distinctions:

2002-2003: Fulbright Scholarship

Jul 2004: Scholarship awarded by the French-German Youth Office

Aug/Sep 2004: Scholarship awarded by the Centre for French-Bavarian University Cooperation

Jan-Jul 2007: Scholarship awarded by the German Academic Exchange Service

Jun 2008: Participation in the 58th Meeting of Nobel Laureates in Physics

Dec 2008: Geophysical Journal International Student Paper Award

Practical Experience:

2000/2001: Teaching assistant in computer science, University of Mining and Technology, Freiberg, Germany.

2001: Teaching assistant in applied mathematics, University of Mining and Technology, Freiberg, Germany.

2001/2002: Research assistant in geophysics, University of Mining and Technology, Freiberg, Germany.

Jul/Aug 2003: Research assistant in geophysics, University of Washington, Seattle, USA.

Sep 2003: Internship at the Royal Naval Institute and Observatory, San Fernando, Spain.

Aug/Sep 2004: Internship at the Laboratoire de Géophysique Interne et Tectonophysique, Université Joseph Fourier, Grenoble, France.

2008: Teaching assistant in geophysics, Ludwig Maximilian University, Munich, Germany.

Languages:

German (mother tongue)
English (fluent)
French (advanced)
Spanish (advanced)

Publications:

Sproessig, W., **Fichtner, A.**, 2005. *Vektoranalysis*, Eagle Publishing House, Leipzig.

Fichtner, A., 2005. *Seismic Noise recorded at broadband station MELI*, Technical Report, Real Instituto y Observatorio de la Armada.

Fichtner, A., 2005. *Adjoint models in seismology: waveform inversion beyond the ray approximation*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics, 918-921.

Fichtner, A., Bunge, H.-P., Igel, H., 2006. *The adjoint method in seismology: I – Theory*, Phys. Earth Planet. Int., **157**, 86-104.

Fichtner, A., Bunge, H.-P., Igel, H., 2006. *The adjoint method in seismology: II – Applications: traveltimes and sensitivity functionals*, Phys. Earth Planet. Int., **157**, 105-123.

Fichtner, A., Igel, H., 2008. *Efficient numerical surface wave propagation through the optimisation of discrete crustal models – a technique based on non-linear dispersion curve matching (DCM)*, Geophys. J. Int., **173**, 519-533.

Fichtner, A., Kennett, B. L. N., Igel, H., Bunge, H.-P., 2008. *Theoretical background for continental and global scale full waveform inversion in the time-frequency domain*, Geophys. J. Int., **175**, 665-685.

Fichtner, A., Igel, H., Bunge, H.-P., Kennett, B. L. N., 2009. *Spectral-element simulation and inversion of seismic waves in a spherical section of the Earth*, Journal of Numerical Analysis, Industrial and Applied Mathematics, accepted.

Fichtner, A., Igel, H., 2009. *Sensitivity densities for rotational ground motion measurements*, Bull. Seis. Soc. Am., in press.

Bernauer, M., **Fichtner, A.**, Igel, H., 2009. *Inferring near-receiver structure from collocated measurements of rotational and translational ground motions*, Geophysics, submitted.