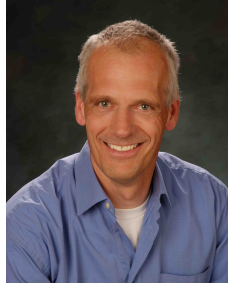


CURRICULUM VITAE



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Born: 20-5-1958

Nationality: Dutch, permanent resident of the USA

Marital status: Married, three children

Education:

- Ph.D. (cum laude), Geophysics, Utrecht University, Netherlands, 1987. Thesis title: Surface wave scattering theory, with applications to forward and inverse problems in seismology.
- M.A., Geophysical Fluid Dynamics, Princeton University, Princeton, USA, 1984.
- Drs. degree, Theoretical Physics, Utrecht University, Netherlands, 1982. Thesis title: Inverse scattering in three dimensions.

Positions held:

- W.M. Keck Distinguished Professor of Basic Exploration Science, Colorado School of Mines, USA (2000-present)
- Dean of the Faculty of Earth Sciences, Utrecht University, Netherlands (1997-2000)
- Full professor in seismology at the Department of Geophysics of Utrecht University, Netherlands (1993-2000).
- Visiting professor at the Center for Wave Phenomena, Colorado School of Mines (1997), research area: chaotic behaviour of waves.
- Associate professor in seismology at the Department of Geophysics of Utrecht University, Netherlands (1988-1993), research areas: theory of wave propagation and inverse problems, imaging the earth's interior.

- Postdoctoral fellow in the "Equipe de Tomographie Geophysique" of the Institut de Physique du Globe in Paris, France (1988), research area: the application of inverse scattering techniques to seismic inverse problems.
- Research assistant in the Department of Theoretical Geophysics, Utrecht University, Netherlands (1984-1987), research area: development of theory for the propagation and scattering of surface waves in laterally inhomogeneous media and the application for imaging the earth's interior.
- Research assistant in the Geophysical Fluid Dynamics Laboratory, Princeton University, USA (1982-1984), research area: dynamics of the stratosphere.

Professional honours:

- Vening-Meinesz award (1989), issued by the Netherlands Organization for Scientific Research (NWO)
- Recipient of the PIONIER project 'Detailed Structure and Dynamics of the Upper Mantle' (with Prof. M.J.R. Wortel, 1991-1996) by the Netherlands Organization for Scientific Research (NWO)
- Award (1992), issued by the Stichting Fund for Science, Technology and Research (Schlumberger)
- Fellow of the American Geophysical Union (2000) for important contributions to geophysical inverse theory, seismic tomography, and the theory of surface waves.

Editorships:

- Associate editor of Geophysical Journal International (1990-1994)
- Guest editor of Physics of Earth and Planetary Interiors for the special issue on 'Structure and evolution of the European lithosphere and upper mantle' (1993)
- Associate Editor of Inverse Problems (1994-1997)
- Editor of Reviews of Geophysics (1997-2001)
- Guest editor of Inverse Problems for the special issue on "Inverse Problems in Geophysics" (1998)
- Associate editor of the book "Scattering and inverse scattering in pure and applied science", published by Academic Press (2002).

Other professional activities:

- Invited lecturer at the Summer School on Studies of Earthquake Sources and Regional Lithospheric Structure based on Seismic Wave Data, Trieste, Italy (1990)
- Member of the Commission on Wave Propagation of the International Association of Seismology and Physics of the Earth's Interior (1992-1995)
- Member of the scientific organizing committee for the 7th conference of the European Union of Geosciences (1992-1993)

- Member of the sectorcommittee 'Endogene Processen' of AWON, the Earth Science branche of NWO (1992-1993)
- Vice-chairman of the Committee for Mathematical Geophysics (1997-present)
- General convener of the seismology sector of the XIX-th conference of the European Geophysical Society (1994)
- Chairman of the selection committee of The Netherlands Geoscience Foundation (GOA) (1994-1996)
- Member of the scientific advisory committee for ORFEUS-EMSC (1994-1998)
- Invited lecturer at the Summer School on Three-dimensional modelling of seismic waves, Trieste, Italy (1996)
- Member of the scientific advisory committee the XX-th conference of the European Geophysical Society (1996)
- Invited lecturer at the Summer School on Wave Propagation in Complex Media, Les Houches, France (1998)
- Invited lecturer at the Summer School on Geomatics and Inverse Problems in Geodesy, Chania, Greece (1998)
- Invited lecturer at the Summer School on the Identification of Media and Structures by Inversion of Mechanical Wave Propagation, Udine, Italy, (1998)
- Invited lecturer at the Summer School on Imaging in complex media, Cargese, France (1999)
- Invited lecturer at the Mathematical Geophysics Summer School, Stanford University, USA (1999)
- Invited lecturer at the internal symposium of Schlumberger Research on "Inversion, Optimization and uncertainty Analysis", Cambridge UK (2000)
- Member of NSF-panel (2001)
- Invited speaker at the Optical Society of America Topical Meeting on "Signal Recovery and Synthesis" (2001)
- Organizer of the session "Mathematical Seismology: Summer School and Research Opportunities" at the annual IRIS meeting (2001)
- Chairman of the selection panel of the program "Waves in Complex Media" of FOM (the Physics branch of the Science Foundation of the Netherlands).
- Member of NSF-panel (2002)
- Invited speaker at the GilbertFest (2002)
- Member of the Lehmann Medal Committee of the American Geophysical Union (2002-2004)
- Member of the advisory board of the research Group IMCODE (Imagerie, Communication et Desordre) (2003-2007)

- Member of the Earth Science Council of the Department of Energy (2003-present)
- Convener of the session "Novel ways for analyzing the seismic coda" at the Fall AGU meeting (2003)
- Director of the NSF-sponsored Summer School on Mathematical Geophysics and Uncertainty in Earth Models (2004)
- Convener of the session "Oil at the core-mantle boundary?: bridging the gap between exploration and global seismology" at the Fall AGU meeting (2004)
- Organizer of the DOE workshop "Advanced noninvasive monitoring techniques" (2005)
- Visiting Fellow at the Research School of Earth Sciences at Australian National University, Canberra, Australia (2006)
- Member of organizing committee and panel leader for the DOE workshop and report "Basic Research Needs in the Geosciences: Facilitating 21st Century Energy Systems" (2007)
- Member of the selection committee for the "Spinoza prize" of the Netherlands Organisation for Scientific Research (2007-2010)
- Member of the committee Geoscientists Without Borders of the Society of Exploration Geophysicists (2008-present)
- Convener of the session "Innovations in geophysics: a tribute to Rodney Calvert" at the 2008 Annual Meeting of the Society of Exploration Geophysicists.
- Convener of the Public Affairs session "Increasing the societal impact of geophysics at the 2008 Fall Meeting of the American Geophysical Union.
- Invited speaker at the NATO advanced research workshop on coupled site and soil-structure interaction, Borovets, Bulgaria, 2008

Publications: see attached lists with 178 internationally refereed publications and 16 other publications.

Grants: see attached

Memberships:

- Royal Astronomical Society
- Society of Exploration Geophysicists
- American Geophysical Union
- Acoustical Society of America

Volunteer work:

- Fire-fighter with Genesee Fire Rescue (2000-present), lieutenant/captain since 2003.

References:

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PUBLICATIONS

1. D. Alsina and R. Snieder. Small-scale sublithospheric continental mantle deformation: Constraints from SKS splitting observations. *Geophys. J. Int.*, 123:431–448, 1995.
2. D. Alsina and R. Snieder. Constraints on the velocity structure beneath the tornquist-teisseyre zone from beamforming analysis. *Geophys. J. Int.*, 126:205–218, 1996.
3. D. Alsina, R. Snieder, and V. Maupin. A test of the great circle approximation in the analysis of surface waves. *Geophys. Res. Lett.*, 20:915–918, 1993.
4. D. Alsina, R. Snieder, and V. Maupin. Reconstructions of phase fronts of surface waves recorded during the iliha project. In J. Mezcua and E. Carrreno, editors, *Iberian Lithosphere Heterogeneity and Anisotropy ILIHA, Monografia No. 10*, pages 75–83. Instituto Geografico Nacional, Madrid, 1994.
5. D. Alsina, R. Woodward, and R. Snieder. Shear-wave velocity structure in north america from large-scale waveform inversions of surface waves. *J. Geophys. Res.*, 101:15969–15986, 1996.
6. H. v. Avendonk and R. Snieder. A new mechanism for shape induced seismic anisotropy. *Wave Motion*, 20:89–98, 1994.
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10. S. Chevrot, J. Montagner, and R. Snieder. The spectrum of tomographic earth models. *Geophys. J. Int.*, 133:783–788, 1998.
11. A. Curtis, P. Gerstoft, H. Sato, R. Snieder, and K. Wapenaar. Seismic interferometry – turning noise into signal. *The Leading Edge*, 25:1082–1092, 2006.
12. A. Curtis and R. Snieder. Reconditioning inverse problems using the genetic algorithm and revised parameterisation. *Geophysics*, 62:1524–1532, 1997.
13. A. Curtis and R. Snieder. Probing the earth’s interior with seismic tomography. In W. Lee, H. Kanamori, P. Jennings, and C. Kisslinger, editors, *International handbook of earthquake and engineering seismology*, pages 861–874. Academic Press, Amsterdam, 2002.
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