

Curriculum Vitae

Personalia

Name: Michael Kahnert
Work addresses: Swedish Meteorological and Hydrological Institute, Research Department
and
Chalmers University of Technology, Department of Earth and Space Sciences
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DoB: 1968-02-21
Citizenship: Swedish and German

Main Research Interests

- Fundamental questions and numerical methods in electromagnetic scattering theory;
- Optical properties of aerosols, hydrometeors, and cosmic dust particles;
- Radiative transfer in planetary atmospheres;
- Remote sensing and inverse modelling of aerosols and clouds;
- Data assimilation and filtering theory;
- Atmospheric chemical transport and aerosol dynamic modelling;
- Direct and indirect climate forcing by aerosols;
- Coupling of atmospheric chemistry and climate models;
- Application of group theory to differential and integral equation problems;
- Theoretical chemistry, quantum-mechanical many-body theory.

Academics

2012 **Adjunct Professor**
Chalmers University of Technology, Department of Earth and Space Science
Gothenburg, Sweden

2010 **Habilitation/senior lecturer expertise** (*docentkompetens*)
Chalmers University of Technology, Department of Earth and Space Science

Gothenburg, Sweden
Global environmental measurement and modelling

- 1998 **Ph.D.** in Physics
University of Alaska Fairbanks, Geophysical Institute
Fairbanks (Alaska), USA
Atmospheric physics and radiative transfer
- 1994 **Master of Science (Diplom)** in Physics
Freie Universität Berlin, Department of Physics
Berlin, Germany
Molecular physics

Employment and postdoctoral fellowships

- 2012-
present **Adjunct professor** (20 %),
Chalmers University of Technology, Department of Earth and
Space Sciences, Gothenburg, Sweden
- 2004-
present **Research scientist**,
Swedish Meteorological and Hydrological Institute (SMHI),
Research Department, Norrköping, Sweden
- 2002-2003 **Research scientist**,
Norwegian Institute for Air Research (NILU), Department for
Regional and Global Pollution Issues, Kjeller, Norway
- 2000-2002 **Postdoctoral Research Associate**
University of Bergen, Department of Physics, Norway
- 1998-1999 **Postdoctoral Research Associate**
University of Rochester, Department of Chemistry and Rochester
Theory Center for Optical Science and Engineering, USA
- 1994-1998 **Research Assistant**
University of Alaska Fairbanks, Geophysical Institute, USA
- 1993 **Visiting Research Assistant**
The Hebrew University of Jerusalem, Institute of Chemistry,
Israel
- 1992-1994 **Research Assistant**
Freie Universität Berlin, Institute of Molecular Physics,
Germany

Special commissions and awards

- 2013 **Guest editor** for *Journal of Quantitative Spectroscopy and Radiative Transfer*, Special issue “Peter Waterman and his scientific legacy”
- 2011 **Opponent at PhD defence**, University of Helsinki, Department of Physics; Candidate: Jani Tyynelä
- 2011,
2013 **Member of award committee**, Elsevier/van de Hulst Light-Scattering Award for landmark life-time achievements
- 2010 **Milestone paper award**, *Journal of Quantitative Spectroscopy and Radiative Transfer*, 50-year anniversary issue
- 2007-
present **Associate editor** for *Journal of Quantitative Spectroscopy and Radiative Transfer*
(www.elsevier.com/locate/jqsrt)
- 2006-2012 **Topical editor** for *Applied Optics*
(www.osa.org/publications/journals)
- 1990-1993 **Scholarship holder** of the *German National Academic Foundation*
(www.studienstiftung.de)

Languages

- German (native)
- English (fluent)
- Swedish (fluent)
- Norwegian (moderate)
- French (basic)

Countries worked in: Sweden, Norway, USA, Germany, Israel