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## Key Qualifications

- Professor of Geoinformatics and Environmental Informatics for 11 years in a leading Finnish technical university
- Over 20 years of academic experience in a highly demanding innovative, scientific, and often international settings
- Elected or selected to a position of trust in several international and national engineering and scientific positions
- A respected track record of scientific and professional achievements

## Education

- Doctor of Science (Technology), Helsinki University of Technology 1999
- Licentiate of Technology, Helsinki University of Technology 1993
- Master of Science (Technology), Helsinki University of Technology 1990

## Employment Record

**Finnish Environment Institute** 2016–2017  
Senior Research Scientist

- Research and development of an information system for Marine Spatial Planning in a Strategic Research Council of the Academy of Finland funded project

**Biwatech Ltd** 2014–  
Self-employed

- Development of open source software for geoinformatics
- Development of web-based systems for environmental management and communication

**Aalto University (formerly Helsinki University of Technology)** 2003–2014  
Professor, two 5-year terms

- National and international scientific and professional collaboration in the fields of geoinformatics and environmental modeling and software
- Team leader of several externally funded research projects; analysis and development of models and tools for several environmental or urban systems
- Team leader of EU framework research project HYDROSYS; analysis and development of tools for environmental monitoring (2008–2011)
- Team leader of EU framework research project CLIME; analysis and development of communication tools for climate change impacts on lakes (2003–2005)

- Representative of Finland in the UNESCO IHP (2003–2010)
- Post-doctoral research associate 1999–2003
- National and international scientific and professional collaboration in the field of water resources engineering and environmental modeling
  - Visiting scientist, IDSIA (Research Institute for Artificial Intelligence), Lugano, Switzerland (2002–2003)
  - Systems specialist, Mekong River Commission, Phnom Penh, Cambodia (1999)
  - Development of a web-based system for benchmarking water utilities, World Bank (1999)
- Doctoral student 1990–1999
- Doctoral thesis: Development of river basin management support systems (1999)
  - Research assistant, International Institute of Applied Systems Analysis (IIASA); Analysis and development of a software system for river water quality management (1994–1996)
  - Licentiate thesis: Terrain models and geographic information systems in snow modeling (1993)
  - Visiting graduate student, Cornell University (1990–1991)

### Personal Information

- Date of Birth: April 23, 1962
- Married with two adult children
- Language skills: Finnish (mother tongue), English (excellent), Swedish (good), German (fair), Italian (basics), French (basics)

### Selected Positions of Trust

- Board member, Springer book series: 'Environmental Informatics and Modeling' 2017-
- Associate editor, Environmental Modelling & Software (Elsevier Journal) 2006-
- Board member, International Environmental Modelling and Software Society 2006-
- Chair, Open Source Geospatial Research and Education Symposium 2014
- Board member, Finnish national doctoral program on built environment 2007-2014
- Board member, Finnish Universities Geoinformatics Network 2008-2014
- Representative of Finland to UNESCO-IHP (International Hydrologic Program) 2005-2010
- Board member, Open Source Geospatial foundation (OSGeo) 2008-2010

### Scientific Achievements

- Author of 45 peer-reviewed scientific articles
- Supervised 12 master's theses and one doctoral dissertation
- External examiner at two doctoral dissertations and one professor appointment

### Professional qualifications

- **Methodological skills:** Science, Modeling, Information systems architecture and development, GIS, Environmental communication, Optimization, Spatial analysis, Statistics
- **Programming skills:** Perl, JavaScript, C++, C, Python, PHP, Java, R, mathematical and modeling languages; Contributions to GDAL, MapServer, QGIS; [12 modules in CPAN](#); [30 repositories in GitHub](#)