

Curriculum Vitae

Full name and date

Full name Jouni Ilmari Peltoniemi

Gender male

Date of CV April 27, 2016

ResearcherID F-2982-2014

ORCID 0000-0002-4701-128X

Date and place of birth, nationality, current residence

Born 8. May, 1963 at Haukipudas, Finland

Nationality Finnish

Current residence Vuorikukantie 12 B, 02330 Espoo, Finland

Education

degrees :

- Ph.D. at the University of Helsinki, Faculty of Science, Department of Theoretical Physics, August 1993, “Light scattering by planetary regoliths and cloudy atmospheres”
- M.Sc. at the University of Helsinki in theoretical physics, February 1988.

Title of docent planetary remote sensing at the University of Helsinki 2001

Linguistic skills

mother tongue Finnish

other languages: English, Germany, Swedish fairly fluently, also studied Latvian, Spanish, French, Russian, Estonian

Current position

Special research scientist at Finnish Geodetic Institute, Department of Geodesy, Space geodesy team.

Task: modelling and measurements of electromagnetic radiation in all wavelengths. Supervising students and post docs.

On leave 1.9.2013-30.8.2016, holding small part time contract.

University researcher at University of Helsinki, Department of Physics, Planetary science team, 1.9.2013-30.8.2016. European Commission funded ERC grant project “Scattering and absorption of electromagnetic waves from particulate medium (SAEMPL)” led by prof Karri Muinonen. Duties include supervising students, modelling light scattering, supporting spectroscopy laboratory.

Research career state established researcher.

Previous work experience

- Researcher/assistant (various positions) at the Observatory, University of Helsinki 1. January 1988 – 14. March 1993
- Post doc scientist at Max Planck Group “Dust in starforming regions” in Jena 15. March 1993 – 15. March 1995.
- Research Scientist at Finnish Geodetic Institute 1.4.1995– (Permanent position 1.1.1996)
- Co-founder and part time director (16. July 1990 – 2005) of a minor company Optinen Teoreema Oy
- Owner of an enterprise in construction business (MuurausLeonso, Maailmanparannus Jouni Peltoniemi), 2008-2011
- Military service 10. June. 1983 – 4. May 1984, voluntary defence activity 1999–, rank second lieutenant.

Research funding as well as leadership and supervision

Major research funding

- 259 000 ECU by European Commission 4. Framework Programme for ENAMORS–project 1996–1999.
- 130 000 mk by Matine 1999–2000.
- 7500 Euro by ESA for SPECTRA validation project, 2003–2005.
- Nordkalotten Satellite Evaluation Network (Norsen), FGI correspondent, 28 000 euro, 2005–2007.
- “Physical methods of precision remote sensing of forests: measurements of the reflection properties of shoots and treetops”, Ministry of Forestry and Agriculture project, 21 000 euro, 2007.

- “Reflectance of Boreal forests: new field and airborne measurements and physical modelling”, Academy of Finland, 2008-11, 184 000 euro.
- “Electromagnetic wave scattering in complex medium”, Academy of Finland, 399 989 euro, 2012–2016.

Supervision of post docs

Supervising Maria Gritsevich (main), Nataliya Zubko (secondary), Johannes Markkanen (secondary). Earlier supervised Sanna Kaasalainen and Eija Honkavaara, who already got independent high level positions.

Officially appointed supervisor of students

- MSc Juha Suomalainen, 2006, UH
- MSc tech Teemu Hakala 2009, HUT
- Eija Honkavaara PhD 2007, HUT
- Juha Suomalainen PhD 2012, UH
- Eetu Puttonen PhD, 2012, UH
- Teemu Hakala PhD studies 2009–, Aalto

Merits in teaching and pedagogical competence

University courses lectured

- Radiation mechanisms in astrophysics, 2000, University of Helsinki, Observatory
- Numerical methods in astronomy, 2002, University of Helsinki, Observatory
- Multiple scattering of light, 2004. University of Helsinki, Observatory
- Light scattering II, 2011. University of Helsinki, Observatory
- Light scattering II, 2014. University of Helsinki, Department of physics

And several isolated lectures in various courses.

Participated to courses of University Pedagogy 1 and 2.

Other academic merits

- Opponent for PhD exam of Ola Engelsen at the University of Tromsø 1998.
- Pre examiner for PhD thesis of Liisa Oikarinen, Helsinki University of Technology, 2002.
- Pre examiner for PhD thesis of Henrik Wallen, Helsinki University of Technology, 2006.
- Opponent of PhD thesis of Joel Kuusk, University of Tartu, 24. August 2011
- Member of the Finnish Geodetic Institute Steering group 2007–2008.
- Management committee member in COST actions HarmoSnow and BigSkyEarth

Publications

In a separate list.

Totally over 65 publications, of which 59 ISI classified, h-index 19, sum of citations 1057, and in Scopus 57, 18, and 1008 (27. Apr. 2016).