

# Curriculum Vitae

## Full name and date

**Full name** Jouni Ilmari Peltoniemi

**Gender** male

**Date of CV** February 28, 2018

**ResearcherID** F-2982-2014

**ORCID** 0000-0002-4701-128X

## Date and place of birth, nationality, current residence

**Nationality** Finnish

## 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, German, Swedish fairly fluently, also studied Latvian, Spanish, French, Russian, Estonian

## Current position

Research manager and Space Geodesy team leader at Finnish Geospatial Research Institute FGI, Department of Geodesy and Geodynamics  
(Former Finnish Geodetic Institute)

Main duties are research in physics of geodesy and remote sensing, design of new instruments, and leading the research team of 6 researchers, including applications for funding and networking with the science community, companies and society.

Research career state established leading 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)
- 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.
- 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.

## Major research funding

- 259 000 ECU by European Commission 4. Framework Programme for ENAMORS-project 1996–1999.
- 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. This project introduced modern UAV remote sensing in Finland, and impacted to huge new business
- “Electromagnetic wave scattering in complex medium”, Academy of Finland, 399 989 euro, 2012–2016.

### **Supervision of post docs**

- Supervising NN (names withdrawn from public version)

### **Officially appointed supervisor of students**

- 6 students (names withdrawn from public version)

### **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
- Pre examiner for PhD thesis of
- Pre examiner for PhD thesis of
- Opponent of PhD thesis of
- Member of the Finnish Geodetic Institute Steering group 2007–2008.
- Managemenet comitee member in COST actions HarmoSnow and BigSkyEarth

## **Publications**

In a separate list.

Totally over 66 publications; in Web of Science 51, h-index 20, sum of citations 1135 (1027 non-self); in Scopus 63, 20, and 1243 (28. Feb. 2018).