

## 1. Personal details

- Uotila, Juha Petteri
- Researcher ID: [A-1703-2012](#), ORCID: [0000-0002-2939-7561](#)
- Born in 1969, Finnish and Australian nationality.
- <https://researchportal.helsinki.fi/en/persons/petteri-uotila>

## 2. Education and degrees completed

- 2000, PhD, University of Helsinki, Finland.
- 1994, MSc, University of Helsinki, Finland.
- 2015, Docent in physical oceanography, University of Helsinki.

**3. Current position** Since November 2017, I have been appointed as the full professor of hydro-sphere geophysics (oceanography, hydrology and cryology) in the University of Helsinki.

## 4. Previous work experience

- 2014 – 2017** I was a research professor (tenure track) responsible for the ocean climate modelling at the Finnish Meteorological Institute.
- 2010 – 2013** I was employed as the sea-ice scientist in the ACCESS climate modelling team of the Centre for Australian Weather and Climate Research.
- 2009 – 2013** Visiting scientist at Finnish Meteorological Institute and University of Helsinki: 16.8–17.9 2009, 1–31.7.2010, 15.8–15.9.2011, 1.9–18.10 2012 and 1–30.6. 2013.
- 2004 – 2010** I was a research scientist in the Monash Weather & Climate program in Australia.
- 2002 – 2004** I worked as a post-doctoral scientist in the Arctic Ocean Model Intercomparison Project at the Courant Institute of Mathematical Sciences, New York University.
- 2000 – 2002** I worked as an application scientist at CSC – Scientific Computing Ltd., Finland.

**6. Personal research funding and grants** I have been involved in grants awarded funding in total of 25 million € in Finland and Australia. Of this, I have been awarded in total 1 530 000 € as the project leader. Some recent funding:

- 2020 – 2025** Polar Regions in the Earth System (PolarRes), H2020-LC-CLA-2018-2019-2020, Task leader Petteri Uotila, 218 563 € (entire consortium 8 162 716 €).
- 2020 – 2024** The effects of Arctic amplification, University of Helsinki PhD scholarship for Tereza Uhlikova, PI Petteri Uotila, 218 000 €.
- 2019 – 2023** The impact of Antarctic Ice Sheet - Southern Ocean interactions on marine ice sheet stability and ocean circulation (COLD), Academy of Finland, PI Petteri Uotila, 399 338 € (entire consortium 976 361 €).
- 2017 – 2019** Linkages between warming Arctic and climate extremes in northern Eurasia (LAW-INE), H2020-MSCA-IF-2015 (Marie Curie) fellowship, PI Petteri Uotila, 191 000 €.
- 2015 – 2018** Statistical Analysis of Climate Projections (eSACP), NordForsk, PI Peter Guttorp, 4M NOK (490 000 €).

**7. Leadership and supervision experience** Since 2000, I have co-supervised 6 postdocs, and 23 doctoral and 8 graduate students at universities in Finland, Australia and USA. Recently I supervised:

- Postdocs Fabio Boeira Dias (2020–) and Andrea Gierisch (2015–2018);

- PhD students Cecilia Äijälä; Tereza Uhlikova with Prof. Timo Vihma; Heidi Sallila with Dr Eero Rinne; Matti Kämäräinen with Prof. Jouni Räisänen; Aki Vähä with Prof. Timo Vesala.
- MSc students Polina Sholeninova, Joula Siponen and Laura Rautiainen.

**8. Teaching experience** I am the responsible professor of the hydrosphere geophysics study track at undergraduate, graduate and postgraduate levels. I've completed 25 ECTS in University Pedagogy.

**2014 –** Five classes taught: Introductory (undergraduate), Dynamical and Coastal oceanography; Geophysics of snow and ice; and Polar oceans and ice.

**2002 – 2018** Guest lecturer at School of Mathematical Sciences, Monash University; Courant Institute of Mathematical Sciences, New York University; and FAMOS school, Woods Hole Oceanographic Institution.

**9. Experience of organising scientific meetings** Some recent ones are:

**2020** A member of the scientific and editorial committee of the 25<sup>th</sup> IAHR International Symposium on Ice, est. 200 attendees.

**2018** SH-8 polar data science session, co-convener (POLAR2018), 50 attendees.

**2016 – 2017** Three Polar Ocean reanalyses workshops, lead convener, Helsinki and Barcelona, 10–20 attendees.

**2013 – 2014** A member of the scientific and editorial committee of the International Symposium on Sea Ice in a Changing Climate, International Glaciological Society, Hobart, Australia, 10–14 March 2014. 200 attendees.

**10. Patents, inventions, awards and honours** The CSIRO award for science excellence (2013). Outstanding reviewer status awarded by Ocean Modelling journal (2014).

**11. Other key scientific or academic merits**

**2017 – 2020** Invited expert reviewer of the IPCC Special Report on Oceans and Cryosphere and the IPCC 6<sup>th</sup> Assessment Report.

**2016 – 2020** Sea-ice expert of the CLIVAR/WCPR/WMO Ocean Model Development Panel.

**2015 –** SCOR, IASC Marine working group, CLIVAR Southern Ocean Panel and IUGG IAMAS national representative.

**2015 –** Member of the ocean model development group of the EC-Earth system model.

**2014 –** Interviews by the Finnish media (YLE, MTV3, Iltasanomat, Iltalehti, Yliopisto-lehti and Atmos-lehti) on topics of oceanic and cryospheric climate change.

**2002 –** Reviewer of manuscripts for several journals, such as Ocean Modelling, Climate Dynamics, Journal of Climate and Geophysical Research Letters. Geophysical Research

**2002 –** Assessor of ERC, H2020 (EU); CNR (Italy); ARC, AAD (Australia); NSF (USA); DFG (Germany); and NERC (UK) funding proposals.

**12. Scientific impact of research** I have 84 peer-review publications. Based on ISI – Web of Science I have been cited 2053 times and my h-index is 27 (18 March 2023).

**13. Memberships and positions of trust in scientific societies** Chair of the National Committee of Scientific Committee of Ocean Research in Finland (2022–). Chair of the association of Finnish Marine Researchers (2020–). Member of International Union of Geophysics and Geodesy (2016–), the Geophysical Society of Finland (1995–2000, 2014–)