

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>
- Date of CV: February 12, 2024

2. Education and degrees completed

- 2000, PhD, Geophysics, University of Helsinki, Finland.
- 1994, MSc, Geophysics, University of Helsinki, Finland.
- 2015, Title of docent in physical oceanography, University of Helsinki.

3. Current position Since November 2017, I have been appointed as the full professor of hydrosphere 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 Inter-comparison Project at the Courant Institute of Mathematical Sciences, New York University.

6. Personal research funding and grants I have been involved in grants awarded funding in total of 26 million € in Finland and Australia. Of this, I have been awarded in total 1 940 000 € as the project leader. Some significant funding:

2023 – 2027 Combining Coupled Modelling and Machine Learning to Constrain Antarctica's Uncertain Future (ICEMAP), Academy of Finland, PI Petteri Uotila, 412 158 € (entire consortium 935 182 €).

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 €).

2017 – 2019 Linkages between warming Arctic and climate extremes in northern Eurasia (LAWINE), H2020-MSCA-IF-2015 (Marie Curie) fellowship, PI Petteri Uotila, 191 000 €.

7. Research output I have 93 peer-review publications. Based on ISI – Web of Science I have been cited 3417 times and my h-index is 30 (12 February 2024).

I have published software packages, mainly at <https://github.com/puotila> and <https://bitbucket.org/puotila/cyclonebudget>, for climatology and oceanography. These have been utilised by other researchers and students.

8. Research supervision and leadership experience Since 2000, I have co-supervised 7 postdocs, and 26 doctoral and 14 graduate students at universities in Finland, Australia and USA. Recently I supervised:

- Postdocs Eliot Jager (2024–) and Fabio Boeira Dias (2020–2022)
- 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, Samuel Chua and Laura Rautiainen.

9. Teaching merits 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 – Six classes developed and taught: Introductory (undergraduate), Dynamical, Polar and Coastal oceanography; Geophysics of snow and ice; and Sea-ice geophysics, including on-line materials with one course at the national Open university's digicampus.

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

10. Awards and honours The CSIRO award for science excellence (2013); Outstanding reviewer status awarded by Ocean Modelling journal (2014); 30-years of service for science and higher education issued by the University of Helsinki (2024).

11. Other academic merits

- 2023** The chair of the Physics department teaching resources group.
- 2022 –** A deputy member of the council of the Faculty of Science, and a member of the council of the Institute of Atmospheric Research at the University of Helsinki.
- 2017 –** Chair of three professorship and lectureship panels, and a member of several ones. An expert member of the Physics BSc and of the atmospheric sciences MSc programmes steering groups. Chair or deputy chair (alternating years) of the Faculty’s teaching assessment panel.
- Assessor of funding proposals for** ERC, H2020 (EU); CNR (Italy); ARC, AAD (Australia); NSF (USA); DFG (Germany); and NERC (UK).
- Memberships in expert and evaluation groups** National expert delegate at the UN 2023 Water Conference; Invited expert reviewer of the IPCC Special Report on Oceans and Cryosphere and the IPCC 6th Assessment Report (2017–2020); Sea-ice expert of the CLIVAR/WCPR/WMO Ocean Model Development Panel (2016–2020); co-chair of the CLIVAR/WCRP/WMO Nordic Oceans Panel (2024–2026); SCOR, IASC Marine working group, CLIVAR Southern Ocean Panel and IUGG IAMAS national representative (2016–2026); Member of the ocean model development group of the EC-Earth system model (2015–2021).
- 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 (2020–2023); Member of the European Geophysical Union (2014–); the Geophysical Society of Finland (1995–2000, 2014–);
- Reviewer of manuscripts** for several journals, such as Ocean Modelling, Climate Dynamics, J Climate and Geophys Res Lett.
- Organising scientific conferences** Convening two sessions on polar science at the IUGG general assembly, ~60 presentations (2023); SH-8 polar data science session, co-convener (POLAR2018), 50 attendees; Finnish climate modellers annual seminar, lead convener, 35 attendees (2018); Three Polar Ocean reanalyses workshops, lead convener, Helsinki and Barcelona, 10–20 attendees (2016–2017); A member of the scientific and editorial committee of the International Symposium on Sea Ice in a Changing Climate, IGS, Hobart, Australia, 10–14 March 2014. 200 attendees (2013–2014).

12. Scientific and societal impacts

- 2014 –** Interviews by the Finnish media (e.g. YLE, HBL, MTV3, Helsingin Sanomat, Iltasanomat, Iltalehti, Yliopisto-lehti and Tiede-lehti) on topics of oceanic and cryospheric climate change.