

Curriculum vitae Hanna Vehkamäki, December 4th, 2024

1. Personal details: Vehkamäki (previously Arstila), Hanna Tuula Katariina, female, born 27.12.1969, Finnish <https://www.mv.helsinki.fi/home/hvehkama>

2. Education and degrees completed

Docent 16.11.2000 in theoretical physics, University of Helsinki Finland

PhD 16.1.1998 in theoretical physics, University of Helsinki, Finland

MSc 27.5.1994 in theoretical physics University of Helsinki, Finland

3. Current position

Professor in computational aerosol physics 1.12. 2009- (contract for an indefinite period) , vice dean, Faculty of Science 2022- Institute for Atmospheric and Earth System Research, Faculty of Science, PO Box 64 (Gustaf Hällströmin katu 2a), FI-00014 University of Helsinki, Finland

4. Previous work experience

University of Helsinki, Department of Physics, Finland:

Research Council of Finland Research Fellow 2003-2009; Research Council of Finland Finland Junior Fellow 2001-2002, various researcher positions 1990-1997, 2000, employed full time since 1995

University College London, United Kingdom Research Fellow 1998-1999

5. Career breaks

Maternity leaves: 6.5.-9.12.2005 (7 months), 5.5.-10.12. 2007 (7 months).

6. Personal Research funding and grant (selected major projects, total sum 8.1M€)

2022-2029 director of **Research Council of Finland Centre of Excellence VILMA** 'Virtual laboratory for molecular level atmospheric transformations' (share of funding 0.5 M€, consortium total 4.6 M€) 2017-2020 **University of Helsinki Faculty of Science** project ATMATH - Atmospheric Mathematics, (share of funding 0.8 M€, consortium total 3. 2 M€); 2016-2021 **European Research Council Advanced Grant DAMOCLES** 'Simulating Non-Equilibrium Dynamics of Atmospheric Multicomponent Clusters' (2.4 M€); 2015-2018 Research Council of Finland **Arctic Research Programme**, leader of the consortium 'Ice Clouds and Ice Nucleation in Arctic', (share of funding 0.2 M€, consortium total 0.8 M€); 2011-2016 **European Research Council Starting Grant MOCAPAF** 'Role of Molecular Clusters in Atmospheric Particle Formation' (1.5 M€); 2010-2013 Research Council of Finland **Computational science research programme**: Coordinator of the consortium ComQuaCC 'Computational research chain from quantum chemistry to climate change' (share of funding 0.5 M€, consortium total 1. 3 M€); 2009-2012 Coordinator of a **Nordforsk Network NICITA** 'Nordic Network for Ionic Clusters In The Atmosphere' (0.1 M€);

7. Leadership and supervision experience

Supervised 14 Bachelor theses, 16 MSc theses, 1 licenciate thesis, 19 PhD theses (+4 ongoing) and 15 (+1 ongoing) post doctoral researchers (4 PhD students and 4 post docs have progressed to a senior scientist position in academia), leader of the computational aerosol physics group (over the last 10 years sized 10-15 people) 2001-

8. Teaching experience (selected, all at University of Helsinki, Finland, except*)

2021-2024 Lecturer of 'Thermodynamic potentials' (5 ECT, 28 hours of lectures per year)

2016-2018 Leader of the Bachelor program in Physical Sciences

2014-2016 Professor coordinating and developing the physics curriculum

2017-2021 Coordinator of MSc and PhD seminar in atmospheric sciences

2010-2017 Coordinator of MSc seminar in Theoretical Physics (2014- also Physics)

2010-2014 Lecturer of 'Thermodynamics' (10 ECT, 56 hours lectures per year)
2010-2011* 'Women's Aerosol train', series of 12 two-day intensive courses with Ilona Riipinen in Finland, Sweden, Denmark, UK, Ireland, Estonia, Germany, Switzerland and Czech Republic
2000-2001 Lecturer of 'Fundamental physics' I-III (52+42+42 hours of lectures)
2003, 2005, 2007, 2019 Lecturer of 'Classical nucleation theory' (42 hours of lectures per year)
2011-2018 basic studies in University pedagogics (25 ECTS)

9. Experience of organising scientific meetings (selected)

4.-6.3. 2024 Scientific program committee, Finnish Physics Days, Helsinki (231 participants)
5.-7.3. 2019 Scientific program committee, Finnish Physics Days, Helsinki (364 participants)
25.-30.6.2017 Co-chair (chair of the local organizing committee) the 20th International Conference on Nucleation and Atmospheric Aerosols; Helsinki, Finland (226 participants)
22.-24.3. 2017 Scientific program committee, Finnish Physics Days, Helsinki (318 participants)
14.-19.8. 2016 National Advisory Committee, ISSPIC XVIII - International Symposium on Small Particles and Inorganic Clusters, Jyväskylä, Finland (230 participants)
15.-17.6.2015 International Advisory Board, Aerosol Technology Meeting, Tampere, Finland
9.-12.6.2015 Topical program committee on Space, atmosphere and Environmental Physics, Nordic Physics Days, Trondheim, Norway (170 participants)
25.-27.4.2012 and 23.-25.5.2011 Main organizer of the NICITA network workshops, Hyytiälä, Finland (45 participants) and Pühajärve, Estonia (20 participants)
29.-31.3.2011 Chair of the scientific program committee, Nordic and Finnish Physics Days, Helsinki, Finland (513 participants)
26.-28.8.2009 Main organizer Nordic Network for Women in Physics (NorWiP) 5th Workshop, Helsinki, Finland (63 participants)
9.-10.11.2006 Main organizer Nordic Society for Aerosol Research (NOSA) 2006 Conference, joined with Finnish-Czech Aerosol and the X Finnish National Aerosol Symposia, Helsinki, Finland (159 participants)

10. Patents, inventions, awards and honours

6.12.2022 Knight, First Class, of the Order of the White Rose of Finland (SVR R I)
20.5.2015 University of Helsinki Maikki Friberg award for work promoting equality
21.5.2014 Finnish Aerosol Research Foundation Distinguished Scientist Award
30.1.2014 NOSA (Nordic Society for Aerosol Research) Aerosologist Award
11.3.2010 Finnish Society of Sciences and Letters Magnus Ehrnrooth Foundation award

11. Other key scientific or academic merits (selected)

Examiner/opponent of 6 PhD theses abroad, 2 in Finland outside Univ. of Helsinki. Reviewed project proposals and applications in 15 calls (ERC x1+ ERC panel member x2, USx2, Czech, Sweden x2, Finlandx8). Referee in 16 scientific journals. Member of the faculty of science council, Univ. of Helsinki 2018-2021, 2014 – 2017 (deputy), 2004-2006, 1992-1995. 5 plenary lectures and 14 invited presentations in international conferences, 14 invited seminar presentations in universities (10 abroad). Member of Scientific customer panel CSC-IT Center for Science in Finland 2013-2019 and Information technology steering group of Kumpula campus, University of Helsinki, 2018-2020. Chair of the equality and work well being group of Institute for Atmospheric and Earth System Research, University of Helsinki 2011-2023

12. Memberships and positions of trust in scientific societies (selected)

Member of Finnish Academy of Science and Letters (Suomalainen Tiedekatemia) 11.4.2014-
Member of the editorial board of Boreal Environmental Research, Finland,
2006-2012, chair of the board 2009-2010.

13. Link to list of publications (198 peer-reviewed journal articles, h-index 60):

https://www.mv.helsinki.fi/home/hvehkama/Vehkamaki_list_of_publ.html