

Curriculum Vitae: Tuija I Pulkkinen

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Education

1995, Title of Docent, Space Physics, University of Helsinki

1992, Doctor of Philosophy, University of Helsinki, Theoretical Physics

1989, Licentiate of Philosophy, University of Helsinki, Theoretical Physics

1987, Master of Science, University of Helsinki, Theoretical Physics

(POBox 3, 00014 University of Helsinki, Finland; <https://www.helsinki.fi/en/university>)

Linguistic skills

Finnish native

English fluent

Swedish average

Russian elementary

Current position

2014, Vice President for Research and Innovation, Aalto University, Espoo, Finland

2013, Professor, Aalto University, Department of Radio Science and Engineering, Espoo, Finland

Previous positions

2011-2014, Dean, Aalto University School of Electrical Engineering

2008-2010, Head, Earth Observation Programme, Finnish Meteorological Institute

2004-2007, Head, Space Research Programme, Finnish Meteorological Institute

2003-2004, Director, Geophysical Research Division, Finnish Meteorological Institute

2000-2003, Research professor, Finnish Meteorological Institute

1998-2000, Research manager, Finnish Meteorological Institute

1988-1997, Scientist, Finnish Meteorological Institute,

International experience

2005-2006, Orson Anderson visiting professor, IGPP/Los Alamos National Laboratory, NM, USA, 12 months

1996-1997, Fulbright scholar, LASP/University of Colorado, Boulder, CO, USA, 16 months

1993, Visiting scientist, IGPP/UCLA, Los Angeles, CA, USA, 1 month

1990-1992, Visiting scientist, Goddard Space Flight Center, Greenbelt, MD, USA, 6 months

Career breaks

1994 Maternity leave 8 months

Research funding

Several research grants from foundations and the Academy of Finland for research and international mobility. Several grants from Academy of Finland and Tekes for University level development of research profile and services.

Participation in academic education

Thesis advisor for 6 PhD students

Thesis examiner for 7 PhD, PhLic, and MSc students

Thesis opponent for 3 PhD thesis defenses

Supervisor for numerous post-doctoral scientists

Awards and honors

2017, Julius Bartels Medal, European Geosciences Union
2014, US National Academy of Sciences, Foreign Associate
2011, Academia Europaea, member
2011, Academy of Technology (Teknillisten Tieteiden Akatemia), member
2010, The Finnish Society of Sciences and Letters (Suomen Tiedeseura), member
2005, Royal Astronomical Society, associate member
2004, NASA Group Achievement Award
2001, Finnish Academy of Sciences and Letters (Suomalainen Tiedeakatemia), member
1999, City of Helsinki Science Award
1998, James B. Macelwane Medal and fellowship of the American Geophysical Union
1993, Editors' Citation for Excellence in Refereeing JGR-Space Physics, AGU
1991, Outstanding Student Paper Award, AGU Spring Meeting, Baltimore, MD, USA

Key positions of trust

2017, Member, Search committee for Director of Space Research Institute, Austrian Academy of Sciences
2015-2018, Member, Science Advisory Council of the Deutsches GeoForschungsZentrum Potsdam, Germany
2012- Chair, Space Research Programme Committee, Research Council of Norway
2010- Member, Publication Forum for evaluation of Finnish science
2012, Chair, Panel 5, Research Assessment Exercise, Royal Institute of Technology, Stockholm, Sweden
2012, Expert, European Space Agency, Board of the Space Situational Awareness Programme
2008, Member, Search committee for new director for EISCAT
2008, Chair, Panel 5, Research Assessment Exercise, Royal Institute of Technology, Stockholm, Sweden
2007-2012, Member, Academy of Finland, Research Council for Natural Sciences and Engineering
2005, Member, International Evaluation Panel of UK Physics and Astrophysics
2003, Member, Evaluation panel of the European Space Science Committee (ESSC)
2001-2009, Member, Space Research Advisory Committee, Swedish National Space Board
2000-2002, Member, European Space Agency, Solar System Working Group

International organizations, memberships and offices held

AE (Academia Europaea):

2015-2018, Member, Section Committee of the Earth and Cosmic Sciences

AGU (American Geophysical Union):

2015, Member, Centennial Task Force
2009, Member, AGU Strategic Planning Forum
2006-2008, Chair, Fellows Committee⁸
2004-2006, Member, Fellows Committee⁶
2000-2002, Member, James B Macelwane Medal Committee
1998-2000, Member, Meetings Committee

COSPAR (Committee on Space Research):

2012- Chair, Finnish National Committee
2012- Member, COSPAR Council
2007-2011, Member, Finnish National Committee
1998-2000, Chair, Subcommission D3
1993-1996, Vice-chair, Subcommission D3

EGU (European Geosciences Union):

2010-2011, Vice-President (past president), European Geosciences Union
2008-2010, President, European Geosciences Union
2007-2008, Vice-President (president-elect), European Geosciences Union
2005-2007, Member, EGU President's Advisory Group
2003-2007, President, Solar-Terrestrial Sciences Division
1999-2003, Secretary, Magnetosphere Subsection

EISCAT (European Incoherent Scatter Radar) Association:

2013-2018, Member, National Representative in EISCAT Council

EU (European Union):

2009-2013, Member, ERC Advanced Grant Proposal Evaluation group, 2009-2013

2008, Member, Evaluation board for COST action 724, 2008
2007-2013, Member, Finnish advisory group for Ideas Programme, FP7

EUMETSAT (European Meteorological Satellite Organization)

2008-2010, Steering Group Chair, Satellite Application Facility on Ozone and
. Atmospheric Chemistry Monitoring (O3MSAF)

IAGA (International Association for Geomagnetism and Aeronomy):

1995-1999, Reporter on “Dynamics of the geomagnetic tail”, Division III, IAGA
1995-1999, Chair, Working group IIF/III4, IAGA

IUGG (International Union of Geodesy and Geophysics):

2006-2011, Member, Finnish National Committee

NAS (United States National Academy of Sciences):

2015-2016, Member, Cozzarelli Prize Selection Committee
2016, Member, Arctowski Medal Committee

NOT (Nordic Optical Telescope):

2011-2012, Comete Cientifico Internacional (CCI), delegate of the Academy of Finland

SCAR (Scientific Committee on Antarctic Research):

2000-2004, Member, Solar-Terrestrial and Astrophysical Research working group

SCOSTEP:

1994-, Scientific Discipline Representative

URSI (Union Radio-Scientifique Internationale):

2014-, Member, Finnish Commission H

2006-, Member, Finnish National Committee, Representative of the Finnish Academy of Sciences

WMO (World Meteorological Organization):

2010-, National point of contact, Space weather activities

National organizations, memberships and offices held

Academy of Finland (Suomen Akatemia):

2009-2012, Board member, vice chair, Research Programme on Climate Change

2007-2012, Member, Research Council for Natural Sciences and Engineering

2010-2012, Board chair, Sustainable Energy research program

2008-2009, Board member, Research Programme on Sustainable Production and Products

2008-2009, Board member, Research Programme on Computational Sciences

2007-2009, Board member, Sustainable Energy research program

2007, Board member, International evaluation of the Computer Sciences in Finland

2007, Board member, International evaluation of the Mechanical, Production and
. Automation Science in Finland

Federation of Finnish Learned Societies (Tieteellisten seurain valtuuskunta):

2008-2010, Board member

Finnish Academy of Sciences and Letters (Suomalainen tiedeakatemia):

2006-2008, Board member

2002-2008, Secretary of the Geosciences Group

The Finnish Society of Sciences and Letters (Suomen tiedeseura):

2015-, Election committee

Finnish Physical Society (Suomen Fysikkoseura):

2004-2006, Board member, Society journal Arhimedes

2003-2005, Board member

National Space Committee (Avaruusasiamin neuvottelukunta):

2015- Associate member

2012- Member of the secretariat

2007-2010, Member

National policy:

2017- Board of VTT Technical Research Centre of Finland
2017- Confederation of Finnish Industries, Business transformation committee
. (EK:n Liiketoiminnan uudistuminen -valiokunta)
2016-2019, Member, Tekes Delegation (Tekesin valtuuskunta)
2016-2018, Board of Directors, member, Smart and Clean Foundation

Other:

2017, Member, evaluation committee for Wihuri Foundation for International Prizes
2012-2015, Board member, Foundation for Advancing Technology (Tekniikan edistmissäätiö)
2012-2015, Board member, TKK support foundation (TKK:n tukisäätiö)
2013-2018, Board member, Finnish Centre for Astronomy with ESO
2010-2013, Member, University of Helsinki Science Campus Infrastructure Committee
2006-2009, Board member, Sodankylä Geophysical Observatory, University of Oulu
1999-2008, Executive board member, Finnish Graduate School for Astronomy and Space Physics

Service for research funding organizations (evaluations and recommendations):

Member, Swedish Space Research Advisory Board 2001-2009
Chair, Space Research Programme Committee, Research Council of Norway, 2012-2015
Member, NASA SR&T magnetospheric physics panel (twice)
Member, Swedish Research Council panel (twice)
Chair, Academy of Finland Space Physics and Astrophysics panel
Member, ESA Solar System Working Group, evaluation of Flexi mission proposals
Mail-in reviews for Academy of Finland, Swedish National Space Board, US National Science Foundation, NASA, Canadian Space Agency, Canadian Research Council, and European Union.

Editorial and reviewer tasks

Editor in Journals:

2011-2017, Surveys of Geophysics, member of the editorial board
2011-2014, Space Science Reviews, member of the editorial board
2003-2005, Annales Geophysicae (Magnetospheric physics), topical editor

Editor in Volumes:

2009, *Maan ytimesta avaruuteen*, eds Ilmari Haapala and Tuija Pulkkinen, Bidrag till kannedom
. av Finlands Natur och Folk, Publications of the Finnish Society of Sciences and Letters, Sastamala
2005, *Inner Magnetosphere: Physics and Modeling*, eds T. I. Pulkkinen, N. A. Tsyganenko, and
. R. W. H. Friedel, AGU Monograph 155, AGU, Washington DC, 2005
2004, *Substorms-7*, eds N. Y. Ganushkina and T. I. Pulkkinen, FMI Publications
2001, *Validation of Magnetospheric models*, Adv. Space Res. Vol 28, No 12, eds T. Pulkkinen and R. Wolf

Reviewer of research proposals, panel memberships and mail-in reviews:

Academy of Finland, Swedish National Space Board, Swedish Research Council, Norwegian Research Council, US National Science Foundation, NASA SR&T, Canadian Space Agency, Canadian Research Council.

Reviewer of scientific articles:

Science, PNAS, J. Geophys. Res., Space Physics, J. Geophys. Res., Atmospheres,
Geophys. Res. Lett., Ann. Geophys., Planet. Space Science, J. Atmosph. Space Phys.,
Adv. Polar Upper Atmosph. Res., and other journals.

Organization of scientific meetings

Main organizational responsibility:

2008, Programme committee chair, "Maan ytimesta avaruuteen", Symposium by the Finnish Academy of Sciences and Letters, Helsinki, Finland
2009, Programme committee chair, EGU General Assembly, Vienna, Austria
2008, Programme committee chair, EGU General Assembly, Solar Terrestrial Sciences programme, Vienna, Austria
2007, Programme committee chair, EGU General Assembly, Solar Terrestrial Sciences programme, Vienna, Austria
2005, Programme committee chair, EGU General Assembly, Solar Terrestrial Sciences programme, Vienna, Austria
2004, Programme committee chair, EGU General Assembly, Solar-Terrestrial Sciences programme, Nice, France
2004, Programme committee chair, International Conference on Substorms VII, Finland
2003, Programme committee chair, AGU Chapman conference on Physics and Modeling of the

. Inner Magnetosphere, Helsinki, Finland

Program committee member or session convenor:

More than 20 international scientific meetings

Support for young scientists

1999-2001, Jury member, European Union Contest for Young Scientists

2002,2004, Jury member, TuKoKe - Finnish national science contest for young scientists

2007-2012, Jury member, Viksu - Academy of Finland national science contest for young scientists

Publications (ISI researcher ID: D-8403-2012)

Author of 220 publications listed in ISI Web of Knowledge database

Editor for four conference proceedings volumes

Author of two encyclopedia articles

Author of over 90 papers in conference proceedings

Author of about 500 conference presentations including 85 invited presentations.

H-index 41, over 5 500 citations during past 20 years (ISI Web of Knowledge)