

CV – Anja C. Andersen

ResearcherID: P-4822-2014ORCID:0000-0001-8169-7273

Education:

2011 – Leadership training course for female academics, University of Copenhagen
2003 – Diploma in Higher Education Teaching and Teaching Practice, University of Copenhagen
1999 – Ph.D. in astrophysics from University of Copenhagen
1995 – M.Sc. in Physics and Astronomy from University of Copenhagen

Academic positions:

Since 2017 Professor of Public Understanding of Science and Technology, University of Copenhagen
2005 – 2017 Associate Professor at Dark Cosmology Centre, Niels Bohr Institute, University of Copenhagen
2002 – 2005 Fellow at the Nordic Institute for Theoretical Physics (NORDITA)
2001 – 2002 Postdoc at University of Copenhagen (Carlsberg Fellow)
2000 – 2001 Postdoc at Uppsala University (Carlsberg Fellow)
1999 – 2000 Research assistant at Danmarks Lærerhøjskole
1996 – 1999 PhD-student at University of Copenhagen and AIU Frederick-Schiller Universität Jena
1995 – 1996 Science lecturer at Copenhagen Day- and Evening College of Teacher Training (KDAS)

Awards and honours:

2017 – Danish Author Society's award for outstanding non-fiction.
2016 – The Ørsted Silver Medal for dissemination of Natural Science.
2015 – Danish Physical Society's UNESCO Year of Light prize for Outstanding Public Outreach.
2014 – Direktør N. Bang og hustru Yrsa Bang født Troensegaards Scholarship for Outstanding Research.
2011 – The Copenhagen University's Faculty of Science Public Outreach Award.
2009 – Bergsøefondens Prize for Outstanding Public Outreach.
2009 – The Mathilde Prize for contributions towards Equity in Academia.
2008 – The Danish Association of Masters and PhDs Research Prize.
2007 – Elected member of The Danish Academy of Technical Sciences (ATV).
2006 – Awarded The Danish Public TV and Radio's Rosenkjærpris for Outstanding Public Outreach.
2006 – The Kirstine Meyer's Award by the Danish Society for Natural Sciences (SNU).
2006 – Outstanding Young Person TOYP 2006 for "Academic achievement and leadership".
2005 – The Descartes prize for Outstanding Science Communication by the European Union.
2004 – The National Danish Award for Outstanding Public Outreach by the Danish Minister of Research.
2000 – The Allan MacIntosh' Public Outreach Award.
1997 – Writer of the Year by the Danish Astronomical Society.

Research:

Astrophysics of dust. Cosmic dust particles play an important role for the thermal, dynamical and chemical conditions in many astrophysical environments, especially for the star and planet formation process and the late stages of stellar evolution. Dust particles determine the spectral appearance of proto-stars as well as of evolved stars with circumstellar envelopes, and they also dominate extinction curves of galaxies.

Public Outreach:

Regularly interviewed (2-3 times per month) for TV, radio (i.e. EuroNews, Danish, Swedish and British Broadcast), newspapers, and magazines on topics of astrophysics, space physics, space technology, and gender in academia. Have written numerous (> 60) popular science papers as well as several (>6) popular astronomy books and numerous commentaries (>25) on Gender in Academia. Present talks at schools, high-schools, public libraries, planetariums etc. Currently write a bi-monthly column on astrophysics research (1000 words) for the Danish Newspaper Weekendavisen.

Teaching:

Have taught at both undergraduate and graduate level at University of Copenhagen and Uppsala University. Currently teaching a BSc courses on Stellar Structure and Evolution and a general astronomy course for non-physics majors Astronomy. Have previously taught a MSc course on Compact Objects and Relativistic Astrophysics.

Supervision:

Have supervised 5 postdocs, 7 PhD, 4 MSc, 13 BSc and several (>100) first year students on their physics projects. Chaired 9 Ph.D.-dissertation committees at the University of Copenhagen and been a member of 6 Ph.D.-dissertation committees abroad (Uppsala University, Frederick-Schiller Universität Jena and Lund University). Part of University of Copenhagen's mentor network for mentoring of young female scientists.

Appointments to boards and learned societies:

2013 – Governing Board of the University of Copenhagen (KU bestyrelse).
2013 – Chair of the board of Directors of the Danish Copenhagen University Extension (Folkeuniversitetet København)
2013 – Board member of Dr.N.P. Wieth-Knudsen Fondet
2010 – Danish National Space Board (Det Nationale Rumudvalg)
2010 – Board member of Bergsøe Fondet (chair since 2016)

2007 – Elected to the Academy of Technical Sciences (ATV), Denmark
2010 – 13 ESA's Astronomy Working Group (AWG)
2008 – 13 Advisory Board of the Technical University of Denmark (DTU-repræsentantskab)
2008 – 13 Advisory Board for DTU Space
2006 – 15 Board member of Danish Science Factory, deputy chair since 2013
1995 – 03 Chair of the Danish Network for Women in Physics (KIF)

Institutional responsibilities:

2014 – 15 Rector's Task Force for improving diversity in academia, University of Copenhagen.
2013 – 17 Staff representative at the Niels Bohr Institute for the Danish Association of Masters and PhDs (TR).
2005 – Teaching Committee (Undervisnings Udvalg), Niels Bohr Institute.
2007 – 11 Strategy Committee (Visions Udvalg), Niels Bohr Institute.
2007 – 09 Rector's Task Force for gender equality in academia, University of Copenhagen.

Community service:

Often used as referee by a diversity of the major relevant journals. Referee on average 1–2 papers per year. Regularly used (2–4 times per year) as an evaluator by various national research foundations for grant proposals, as well as by the European Southern Observatory for evaluation of observing proposals. Have also several times served as an external expert in relation to various European Universities hire of associate professors.

Evaluator for:

US National Science Foundation (NSF) – (research proposals)
Deutsche Forschungsgemeinschaft (DG) – (research proposals and programs)
European Commission Space Research Unit at REA – (research proposals)
European Research Council (ERC) – (remote evaluator of consolidator proposals)
European Commission Descartes Prize – (ranking of nominations)
UK Particle Physics and Astronomy Research Council – (research proposals)
Austrian Academy of Sciences – (research proposals)
Swedish National Space Board (SNSB) – (research proposals)
Swedish Research Council (VR) – (research proposals)
Royal Swedish Academy of Sciences – (the Göran Gustafsson Prize)
Netherlands Organisation for Scientific Research (NWO) – (research proposals)
Research Foundation Flanders (FWO) – (research proposals)
Catholic University Leuven, Belgium – (hire of permanent lecturer)
Lund University, Sweden – (hire of permanent lecturer)
University of Toledo – (promotion to professor)
Uppsala University – (hire of permanent lecturer)
Danish Technical University (DTU Space) – (promotion to senior scientist)
Nordic Institute of Theoretical Physics (NORDITA) – (hire of postdocs/associates)
ESO observing committee (panel C) – (observing proposals)

Editorships:

Volume 4 of The International Journal of Astrobiology (2005)
Proceedings of Science: The Life Cycle of Dust in the Universe: Observations, Theory, and Laboratory Experiments (2014)

Referee of scientific journals:

Astronomy and Astrophysics (A&A)
Astrophysics Journal Letters (ApJL)
Journal of Quantitative Spectroscopy and Radiative Transfer (JQSRT)
Geochimica et Cosmochimica Acta
Journal of Applied Optics
Monthly Notices of the Royal Astronomical Society (MNRAS)
Journal for Mineralogy and Petrology
Astronomische Nachrichten (AN)
Cambridge University Press' Planetary Science Series

Memberships of professional societies:

International Astronomical Union (IAU)
European Astronomical Society (EAS)
European Physical Society (EPS)
Meteoritical Society
Academy of the Technical Sciences (ATV)
Danish Physical Society (DFS)

Scientific organizing committees (SOC):

2018 Co-chair of the International Conference: Cosmic Dust: Origin, Applications & Implications, Copenhagen, Denmark.
2014 Co-chair of the International symposia: Origin of Cosmic Dust, Geneva, Switzerland.

2013 International Conference: The life cycle of dust in the universe, Taipei, Taiwan.
2013 Annual European meeting: The European Week of Astronomy and Space Science, Turku, Finland.
2009 Co-chair International Workshop: Current Problems in Extragalactic Dust, Copenhagen, Denmark.
2009 International Summer School: CompSchool 2009, Copenhagen, Denmark.
2008 International Conference: Cosmic Dust - Near and Far, Heidelberg, Germany.
2008 International Conference: Chirality 2008, Stockholm, Sweden.
2007 Splinter D meeting: The Chemical Evolution of the Universe on its Smallest Scales, Wurzburg, Germany.
2006 Co-chair of JD11: Pre-solar Grains as Astrophysical Tools, IAU XXVIth General Assembly, Prague, Czech Republic.
2005 Nordic Conference: Astrobiology and Origins of Life, Copenhagen, Denmark.
2004 Nordic Conference: Astrobiological problems for physicist and biologists, Tuorla, Finland.