




DR. MARTIN SAHLÉN**COSMOLOGIST & ASTROPHYSICIST**
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ACADEMIC DEGREES

- 2009 DPhil in Astronomy**, Astronomy Centre, University of Sussex, UK
Thesis: "Bayesian constraints on dark energy and cosmic structure". Supervisor: Prof. Andrew R. Liddle.
- 2006 Licentiate of Philosophy in Theoretical Physics**, Stockholm University, Sweden
Thesis: "Direct Reconstruction of the Quintessence Potential". Supervisor: Prof. Lars Bergström
- 2004 Master of Advanced Study in Mathematics**, University of Cambridge, UK
Courses in Theoretical Physics and Cosmology. Essay: "Dark Energy".
- 2003 MSc Engineering Physics (Civ. ing. teknisk fysik)**, KTH, Stockholm, Sweden
Thesis: "Gamma Rays from Primordial Black Holes in Supersymmetric Scenarios"
Supervisor: Prof. Lars Bergström and Dr. Anne M. Green, Stockholm University

ACADEMIC POSITIONS

- 09 - 12/2016 Fulbright Visiting Scholar**, Physics & Astronomy, Johns Hopkins University, USA
since 09/2016 Researcher, Course Lecturer Physics & Astronomy, Uppsala University, Sweden
- 12/2014 – 09/2016 Parental leave**
- 12/2014 – 12/2016 Visiting Researcher**, Astrophysics, University of Oxford, UK
- 10/2012 - 12/2014 Postdoctoral Fellow, Foundations of Cosmology**
Beecroft Inst. of Particle Astrophysics and Cosmology, University of Oxford, UK
- 09/2009 - 08/2012 Oskar Klein Postdoctoral Research Fellow in Cosmology**
The Oskar Klein Centre, Department of Physics, Stockholm University, Sweden
- 03/2009 - 08/2009 Postdoctoral Fellow in Statistics/Mathematical Biology**
Wellcome Trust Sanger Institute, Cambridge, UK
- 10 - 12/2006 Visiting Scholar**, Physics Department, Syracuse University, USA
- 10/2005 - 12/2008 Graduate Teaching Assistant PhD Studentship**
Department of Physics & Astronomy, University of Sussex, UK
- 10/2004 - 10/2005 Marie Curie Fellowship**
EU Commission / Department of Physics & Astronomy, University of Sussex, UK
- 08/2003 - 12/2005 PhD Position, Theoretical Physics** (graduated part-way, Licentiate degree)
Department of Physics, Stockholm University, Sweden

FUNDING

- Large Grants** "The Physics of the First Cosmic Structures" (2016-18), 1MSEK (~€100k), Olle Engkvist Foundation
- Fellowships** Marie Curie Fellowship (2004), Klein Fellowship (2009-12), Fulbright Scholar (2016)
- Scholarships** More than 15 scholarships, total value ~1MSEK (~€100k)
- Computing Resources** "Computational Cosmology and Astrophysics" (2017-18), 350k CPU-h, SNIC

SCIENTIFIC CONSORTIA

- 4MOST** Member, Cosmology Redshift and Galaxy Cluster surveys
- CANTATA COST action** Member
- Dark Energy Survey** External Collaborator
- Euclid Consortium** Member, Theory WG [Dark Energy/Modified Gravity, Dark Matter, New obs. probes]; Primeval Universe WG [Survey Design, Lyman Break Galaxies, Lensing]; Euclid Voids group. Coordinator for Warm Dark Matter work within Theory WG.
- LiteBIRD-Europe** National Collaboration Member, Sweden
- Square Kilometre Array** Associate Member, Cosmology [HI galaxy survey Focus Group] and Epoch of Reionization [EoR Synergy Focus Group] Science Teams
- XMM Cluster Survey** Member, Cosmology Lead
- XXL Survey** Member

SCIENTIFIC PRESENTATIONS

Invited Presentations	<i>Colloquia:</i> Oslo University, University of Porto. <i>Seminars:</i> Carnegie-Mellon, Uppsala, Stockholm, Onsala, Oxford, Portsmouth, IAP Paris, Johns Hopkins, Harvard, Sussex, Case Western. <i>Conferences:</i> Cosmology with Cosmic Voids, Princeton CCA, New York (2018); Adv. in Theoretical Cosmology in Light of Data, NORDITA (2017); Big Questions in Astrophysics (Wallenberg Jubilee), Lund (2017); Philosophy of Cosmology, Tenerife (2014); Infinities and Cosmology, University of Cambridge (2013); Clusters of Galaxies as Cosmic Labs, MIT (2010).
Submitted Presentations	More than ten at consortium and working group meetings of 4MOST, DES, Euclid, SKA, XCS and XXL. More than ten at international conferences, e.g. "Fundamental Physics with the SKA", "Science with the Hubble and James Webb Space Telescopes" and the "COSMO" conference series.

ACADEMIC LEADERSHIP & SERVICE

Research Leadership	Co-ordinator of several research working groups at multiple international institutions and consortia.
Leadership Training	Group leadership and management training equivalent to 7.5 ECTS.
Conference Organization	Chair of two international conference committees. Chair of one national workshop committee. Member of one international workshop series committee.
Positions of Trust	Division Council member of the Astronomy Division, Uppsala University.
Thesis Committees	External opponent on one BSc thesis committee.
Proposal Evaluation	Invited expert evaluator for EU H2020 and NASA.
Peer Review	Regular referee for Eur. Phys. J. Plus (EPJP); Monthly Notices of the Royal Astronomical Society (MNRAS); Journal of Cosmology and Astroparticle Physics (JCAP); New Astronomy; Physical Review D (PRD).

PEDAGOGICAL ACTIVITY

Supervision	Co-supervisor for two PhD students, supervisor for two Master students and two Bachelor students.
Teaching	Course lecturer on three advanced/PhD level courses of total 25 ECTS credits. Course lecturer on one continuing education short course. Tutor on ten courses at all levels of total 480 h.
Pedagogical Development	Developed one PhD level course on Statistical Inference for Physics & Astronomy, 7.5 ECTS credits. Co-I on two grants for pedagogical development projects. Authored one pedagogical compendium on Fermi problems; presentation and poster at pedagogical development conference.
Pedagogical Training	More than 35 ECTS equivalent courses on general and subject-specific teaching, learning and supervision.

OUTREACH & MEDIA

Popular Science	More than 15 popular-science articles and public lectures. Contributor to the Philosophy of Cosmology website www.philosophy-of-cosmology.ox.ac.uk .
Media Coverage and Appearances	Live interviews on national radio and TV news. Commentary on science stories to national written media. Handful of articles and interviews about my own research, including New Scientist, Science News, Phys.org, The Daily Galaxy.

TRANSDISCIPLINARY ENGAGEMENT

Lecturer and panelist on e.g. religion and science, art and science. Collaborating researcher on artistic research project. Project leader for 1-year art-science collaboration, exhibition, lecture series and documentary film.