

Mark Trodden

Associate Dean for the Natural Sciences
Fay R. and Eugene L. Langberg Professor of Physics
Co-Director: Center for Particle Cosmology
Department of Physics and Astronomy
University of Pennsylvania

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Current Positions

2023 – present Associate Dean for the Natural Sciences, School of Arts and Sciences, University of Pennsylvania.
2009 – present Fay R. and Eugene L. Langberg Endowed Chair in Physics.
2009 – present Professor of Physics and Astronomy;
Co-Director: Center for Particle Cosmology, University of Pennsylvania.

Past Professional Appointments

2014 – 2022 Chair, Department of Physics and Astronomy, University of Pennsylvania.
2007 – 2009 Alumni Professor of Physics, Syracuse University;
Professor, Physics Department, Syracuse University.
2005 – 2007 Alumni Associate Professor of Physics, Syracuse University.
2004 – 2007 Associate Professor, Physics Department, Syracuse University.
2000 – 2004 Assistant Professor, Physics Department, Syracuse University.
1999 – 2000 Visiting Assistant Professor, Case Western Reserve University.
1997 – 1999 Senior Research Associate, Case Western Reserve University.
1995 – 1997 Research Associate, Massachusetts Institute of Technology.

Education

1995 Ph.D., Physics, Brown University.
1993 M.Sc., Physics, Brown University.
1993 M.A. (honors), Mathematics, Cambridge University, U.K.
1991 Cert. Adv. Stud. (honors), Mathematics, Cambridge University, U.K.
1990 B.A. (honors), Mathematics, Cambridge University, U.K.

Selected Honors and Awards

2015 Fellow, American Association for the Advancement of Science (AAAS).
2015 Fellow, American Physical Society (APS).
2012 Fellow, Institute of Physics (IoP), UK.
2005 – 2008 Kavli Frontiers Fellow, National Academy of Sciences (NAS).
2005 – 2007 Sir Thomas Lyle Fellow, University of Melbourne, Australia.
2003 – 2006 Cottrell Scholar, Research Corporation.
2006 Science and Technology Outreach Award, TACNY.

Recent Academic Service Positions

2015 – 2016	Chair, SAS Committee on Tenure and Promotion Policies.
2013 – 2014	Chair, SAS Personnel Committee.
2013 – 2014	Member, SAS Personnel Committee.
2011 – 2014	Member, SAS Planning and Priorities Committee.
2011 – 2013	Member, SAS Communications Committee.
2018 – 2021	Member, University Council Committee on Campus and Community Life.

Professional Activities and Editorial Boards

2023 – present	Member, Committee on Science And the Arts, The Franklin Institute.
2023 – present	Member, Scientific Advisory Board, Mathematical and Physical Sciences, Simons Foundation.
2023	Member, External Review Committee, CMU Physics Department.
2022 – present	Member, Nominating Committee, Division of Gravitational Physics (DGRAV), American Physical Society.
2017 – 2020	Member, Advisory Board, Kavli Institute for Theoretical Physics.
2016 – 2019	Member, U.S. High Energy Physics Advisory Panel (HEPAP).
2018	Member, External Review Committee, Ohio State Physics Department.
2017 – 2020	Member, Judging committee, Buchalter Cosmology Prize.
2016	Member, U.S. Department of Energy, High Energy Physics Committee of Visitors.
2013 – 2016	Member, Fermi Research Alliance Visiting Committee, Fermilab.
2009 – present	Member, Editorial Board – <i>Physics Letters B</i> .
2010 – present	Member, Editorial Board – <i>Journal of Cosmology and Astroparticle Physics</i> .
2016 – 2019	Member, Editorial Board – <i>Physical Review D</i> .
2006 – 2014	Member, Editorial Board – <i>New Journal of Physics</i> .
2017 – 2022	Member, Editorial Advisory Board – <i>Universe</i> .
2007 – present	Member, Editorial Board – <i>Multiversal Journeys</i> .
2006 – 2008	Member, Editorial Board – <i>The Gravitational Lens</i> .
2000 – present	Grant Reviewing: National Science Foundation (NSF); Department of Energy (DOE); NASA; National Academy of Sciences (NAS); Simons Foundation; UK STFC; Canadian National Research Council; City University of New York; Department of Energy Review Panels; National Science Foundation Review Panels; NASA Review Panels.
1995 – present	Refereeing: Nature; Science; Physical Review Letters; Physical review D; Physics Letters B; Journal of High Energy Physics; Journal of Cosmology and Astroparticle Physics; Classical and Quantum Gravity; International Journal of Modern Physics.

Mentoring

Ph.D. students (10)	Mary Gerhardinger (Ph.D. expected 2027); Qiuyue Liang (Ph.D. 2023, postdoc - KIPMU); Mariana Carrillo Gonzalez (Ph.D. 2020, postdoc - Imperial College); James Stokes (Ph.D. 2015, Research Scientist -
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Flatiron Institute); Garrett Goon (Ph.D. 2014, Machine Learning - Determined AI); Melinda Andrews (Ph.D. 2014); Michele Fontanini (Ph.D. 2011, Research Scientist - Italy); Eric West (Ph.D. 2010, faculty - Minnesota); Alessandra Silvestri (Ph.D. 2008, tenured - Leiden); Antonio de Felice (Ph.D. 2006, tenured - Kyoto).

Postdocs (15) Valerio de Luca (current); Alice Garroffolo (current); Sam Wong (faculty - Hong Kong); Tanvi Karwal (postdoc - Chicago); Marco Raveri (faculty - Genoa); Jeremy Sakstein (faculty - Hawaii); Riccardo Penco (faculty - CMU); Vivian Miranda (faculty - Stony Brook); Lasha Berezghiani (faculty - Munich); Yi-Zhen Chu (faculty - NCUT Taiwan); Kurt Hinterbichler (tenured - CWRU); Daniel Wesley (partner - PDT Partners); Damien Easson (tenured - ASU); Levon Pogolian (tenured - Simon Fraser); Laura Mersini (tenured - UNC).

Publications

I have published over 170 peer-reviewed and other research papers. All of these, plus relevant citation metrics, can be found at <https://inspirehep.net/authors/985627>

Presentations

I have routinely delivered ten or more invited seminars, colloquia and conference presentations per year for the last decade. Recent notable talks include the Schrodinger Colloquium in Zurich, and the Lorentz Colloquium in Leiden.