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Academic Appointments

- University of Pennsylvania, Assistant Professor (2022-) Department of Physics and Astronomy
- Perimeter Institute, Peebles Fellow (2019-2022) Senior Postdoctoral Fellowship, Center for the Universe
- **Princeton University**, Postdoctoral Researcher (2016-2019) Department of Astrophysical Sciences

Education

- Stony Brook University, PhD (2016) Physics
- University of Cambridge, BA (Aff.) (2011), Part II and Part III Physics
- St. Stephen's College, University of Delhi, BSc. (Hons.) (2009), Physics

Grants

- Senior Personnel and WBS Level-3 Lead on NSF Mid-scale Research Infrastructure-2: "Advanced Millimeter Survey Instrumentation in Chile", \$52.7 million, PI: Mark Devlin (2023)
- PI on NASA Astrophysics Theory (NASA-ATP) 21-ATP21-0145 "Inflation Physics from Cosmic Velocities with Joint Galaxy and CMB Simulations", \$543,706 (2021)

Awards

- STFC UK Rutherford Fellowship, University of Cambridge (2021; declined for faculty offer)
- P. J. E. Peebles Fellowship, Perimeter Institute (2019)
- Astronomical Society of New York Graduate Paper Prize (2015)
- H. B. Silsbee Award for Excellence, Physics Department, Stony Brook University (2015)
- Jonathan Kauffman Student Excellence Prize in Physics, Physics Department, Stony Brook University (2014)
- Jennings Prize, Wolfson College, University of Cambridge (2011)
- Gates Cambridge Scholarship, University of Cambridge (2009)

Teaching Experience

- ASTR 0001 "A Survey of the Universe": introductory astronomy for non-majors, Spring 2023, University of Pennsylvania
- Instructor and Co-organizer, Atacama Cosmology Telescope Data Analysis School (2019); Instructor for CMB-S4 Data School (2021)
- Instructor, "Coding in Python" and "Statistical Techniques" workshops, Undergraduate Summer Research Program, Department of Astrophysical Sciences, Princeton (2018)
- Instructor for (1) Astronomy and (2) Pre-calculus at the Albert C. Wagner Youth Correctional Facility through the Princeton Prison Teaching Initiative (2018)
- Teaching Assistant, Stony Brook University (2011 2013)
- Faculty, Cambridge Tradition and Cambridge Prep Summer Schools, Oxbridge Academic Programs, taught Astronomy and Computer Science, UK (2011, 2012)

Professional Service

- Member, Simons Observatory Theory and Analysis Committee; steering the scientific direction of SO theory and analysis efforts (2020-)
- Pipeline Co-Lead, Lensing Reconstruction Working Group, Simons Observatory (2018-)
- Pipeline Working Group Co-Lead, "Systematics and Science Interfaces", Simons Observatory Project (2018-)
- Served as member of the Simons Observatory Data Management Committee (2017-2018)
- Panelist for grant review for the National Science Foundation (NSF)
- Co-organizer, Undergraduate Summer Research Program, Department of Astrophysical Sciences, Princeton (2018)
- Referee for Nature Astronomy, Monthly Notices of the Royal Astronomical Society, Astrophysical Journal, Astronomy & Astrophysics, Journal of Cosmology & Astroparticle Physics and Physical Review
- Remote Observing Coordinator, ACTPol observations, 09/14 04/18
- ACTPol telescope site visit, Cerro Toco, Chile, 12/13 to help with site operations

Collaboration Membership

- Ongoing:
 - Atacama Cosmology Telescope (ACT)
 - Simons Observatory
 - LSST DESC
 - External Collaborator on DESI
 - External Collaborator on DES
 - External Collaborator on HSC
- Planned: CMB-S4, CMB-HD, PICO

Talks

- 1. Seminar: Johns Hopkins University, 06/23
- 2. Seminar: University of Geneva, 06/23
- 3. Invited Plenary Talk: "CMB Lensing and the Late-time Universe", Eu-CAPT Annual Symposium, CERN, 05/2023
- 4. Seminar: Rutgers University, 04/2023
- 5. Seminar: Department of Physics, Princeton University, 04/2023
- Invited Talk: "Cosmology with ACT CMB Lensing", Future Science with CMB x LSS, Kyoto, 04/2023
- 7. Invited Plenary Talk: "Synergies between the Simons Observatory and Rubin Observatory LSST", LSST-DESC virtual meeting, 02/2023
- 8. Invited Review Talk: "Key Challenges in Galaxy and CMB Lensing", University of Cambridge 07/2022
- 9. Invited Plenary Talk: "Galaxy Clusters 2022" Symposium, STScI 04/2022
- Seminar: Physics and Astronomy, University of Pennsylvania, Philadelphia 04/2022
- 11. Colloquium: Physics and Astronomy, California State University, Los Angeles, CA 4/2022
- 12. Invited Plenary Talk: Outreach talk at "Queen's Space Conference", Kinston, Ontario 02/2022
- 13. Invited Plenary Talk: "Spergelfest Symposium", Princeton and New York, 10/2021
- 14. Invited Plenary Talk: "Cosmology From Home" conference, 07/2021
- 15. Invited Talk: "Cosmological Frontiers in Fundamental Physics", Paris, France, 05/2021
- 16. Seminar: Cosmology Seminar, University of Oxford, UK, 05/2021
- 17. Seminar: Astrophysics/Gravity/Cosmology seminar, University of Illinois at Urbana-Champaign, IL, 04/2021
- 18. Colloquium: Department of Physics and Astronomy, University of Southern California, CA 2/2021
- 19. Seminar: LEPP seminar, Cornell University, NY 01/2021
- 20. Colloquium: University of Arizona Steward Observatory and NOIRLab, 11/2020
- 21. Seminar: German Center for Cosmological Lensing (GCCL), 10/2020
- 22. Seminar: HEA at MPA Garching, Germany, 10/2020
- 23. Colloquium: Aspen Physics Summer colloquium, 08/2020
- 24. Seminar: Institute of Astronomy, University of Cambridge, UK 06/2020
- Seminar: Kavli IPMU, Kashiwa, Japan 04/2020 (invited, but canceled due to COVID-19)
- 26. Colloquium: Institute for Astronomy, University of Hawaii, 04/2020 (invited, but canceled due to COVID-19)

- 27. Invited Talk: Perimeter-CITA Day, Canadian Institute for Theoretical Astrophysics, ON 11/2019
- Colloquium: Department of Physics and Astronomy, University of Southern California, CA 10/2019
- 29. BCCP Cosmology Seminar, University of California, Berkeley CA 04/2019
- 30. KIPAC Cosmology Seminar, Stanford University, Stanford CA 04/2019
- Seminar at High Energy Theory Group, Physics Department, Boston University, MA 03/2019
- 32. Seminar at KICP, University of Chicago, IL 02/2019
- 33. Cosmology Lunch Seminar, Department of Astrophysical Sciences, Princeton University 02/2019
- 34. Invited Talk: BCCP Lensing Workshop, University of California, Berkeley CA 01/2019
- 35. Gravity Group Seminar, Physics Department, Princeton University 09/2018
- 36. Public outreach talk on the Hubble constant tension, Rutgers University, NJ 07/2018
- 37. Seminar at Rutgers University, New Brunswick NJ 11/2017
- 38. Seminar at University of Pennsylvania, Philadelphia PA 02/2017
- 39. Gravity Group Seminar, Department of Physics, Princeton University, NJ 12/2016
- 40. Seminar at Perimeter Institute for Theoretical Physics, Waterloo, Canada 11/2016
- 41. APEC Seminar at Kavli IPMU, Kashiwa, Japan, 04/2016
- 42. Graduate Student Prize Lecture at Astronomical Society of New York Meeting, Skidmore College, Saratoga Springs NY 11/2015
- 43. Astrophysics Seminar, Imperial College, UK 09/2015
- 44. Astrophysics Seminar, University College London, UK 09/2015
- 45. Institute of Astronomy Seminar, University of Cambridge, UK 09/2015
- 46. Oxford Astrophysics Seminar, University of Oxford, UK 09/2015
- 47. Joint Stony Brook / Brookhaven National Lab Cosmology Seminar, NY 06/2015
- 48. Seminar at Canadian Institute for Theoretical Astrophysics, Toronto 05/2015
- 49. Seminar at Perimeter Institute for Theoretical Physics, Waterloo, Canada 05/2015
- 50. Seminar at Yang Institute for Theoretical Physics, Stony Brook, NY 02/2015
- 51. Astronomy Seminar, Columbia University, NY 02/2015
- 52. Cosmology Lunch Seminar, Princeton University, NJ 01/2015
- Department of Physics & Astrophysics Seminar, University of Delhi, India 08/2014