

# JO DUNKLEY

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## Research

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- 2016-present Professor, Departments of Physics and Astrophysical Sciences, Princeton University
- 2007-2016 Faculty member, Department of Physics, University of Oxford  
Professor of Astrophysics (2014-2016)  
Associate Professor (2012-2014)  
RCUK Academic Fellow (2007-12)  
Fellow at Exeter College (2007-15)
- 2007-2008 Visiting Research Fellow, Princeton University
- 2006-2007 Post-doctoral Research Fellow, Princeton University, Physics and Astrophysical Sciences, with Profs David Spergel and Lyman Page

*Two 8-month maternity leaves during academic years 2013-14 and 2017-18*

## Education

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- 2002-2005 University of Oxford, Department of Physics and Magdalen College  
PhD in Astrophysics 2005; Advisor: Pedro Ferreira  
*Modern methods for cosmological parameter estimation: Beyond the adiabatic paradigm*
- 1997-2001 University of Cambridge, Trinity Hall  
MSci Hons with First Class, Natural Sciences (Theoretical Physics)

## Prizes and Awards

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- 2020 *Tomassoni Chisesi physics prize*, Fondazione Sapienza, Italy
- 2019 *New Horizons in Physics Prize*, shared with Samaya Nissanke and Kendrick Smith
- 2019 *Appointed Officer of the Order of the British Empire (OBE)*
- 2018 *Gruber Prize for Cosmology*, shared with the Planck team
- 2017 *Breakthrough Prize in Fundamental Physics*, shared with the WMAP team
- 2016 *Rosalind Franklin Award and Lecture*, Royal Society, UK
- 2015 *Philip Leverhulme Prize*, Leverhulme Trust, UK
- 2014 *Fowler Prize*, Royal Astronomical Society, UK
- 2013 *Maxwell Medal and Prize*, Institute of Physics, UK
- 2012 *Gruber Prize for Cosmology*, shared with the WMAP team
- 2010 *Starting Grant*, European Research Council
- 2007 *NASA Group Achievement Award*, shared with the WMAP team

## Major Collaborations

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- 2021-present Member of Executive Board and Planning Committee, Simons Observatory
- 2016-20 Chair of the Theory and Analysis Committee, Simons Observatory
- 2016-present Member of Guiding Board of Atacama Cosmology Telescope
- 2016-2017 Member of the DoE/NSF CMB-Stage 4 Concept Definition Taskforce
- 2013-present Full Member of Dark Energy Science Collaboration for the Large Synoptic Survey Telescope
- 2009-2015 Core Team member and Planck Scientist for ESA's Planck satellite
- 2007-present Member of the Atacama Cosmology Telescope science collaboration
- 2007-2012 Member of NASA's WMAP science team.

## Public Outreach Highlights

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- Published popular science book *Our Universe: An Astronomer's Guide* (2019), by Penguin (UK) and Harvard University Press (US). Media engagements including CBC The Current, BBC Radio 4 Infinite Monkey Cage and Start the Week, Evening Standard profile, Guardian Review, Economist and Guardian Science podcasts.
- Interviewed on TV, radio, print (including NPR, BBC News, BBC World, Radio 4 Today, Radio 4 Material World, Radio 3 Free Thinking, Sky News, BBC website, New Scientist, major UK broadsheets) about WMAP, Planck, the Hubble Constant, and other topics in cosmology.
- TV appearances on *Channel 4 Sunday Brunch*, *PBS Genius by Stephen Hawking*, *BBC Stargazing Live* and *BBC Science Club*.
- Major public talks include New Scientist Virtual Event, Sydney Opera House, Hay-on-Wye, Royal Institution, Royal Society Rosalind Franklin Lecture, York Festival of Ideas, European AstroFest, Sheldonian Theatre, New Scientist Live, British Science Festival.

## Supervision of students and postdocs

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Post-doc advisor	Jahmour Givans (2021-), Adri Duivenvoorden (2019-22), Andrina Nicola (2018-22), Simone Aiola (2016-18), Mat Madhavacheril (2016-19), Thibaut Louis (2014-15), David Alonso (2013-17), Sigurd Naess (2012-16), Erminia Calabrese (2011-15), Charmaine Armitage-Caplan (2009-13).
Thesis advisor	Zach Atkins (2020-25), Emilie Storer (2017-22), Heather Prince (2016-22), Zack Li (2016-21), Naomi Robertson (2015-19), Ben Thorne (2015-19), Rupert Allison (2012-16); Thibaut Louis (2011-14); Graeme Addison (2009-12); Renée Hlozek (2008-11)
Research advisor	Roohi Dalal (2019-20, 2021-), Siddharth Mishra-Sharma (2016-17)
Undergrad project	Jalen Salmon (2021-22), Jake Helton (2020), Aizhan Akhmetzhanova (2019-20), Hector Cruz (2019-20), Michelle Baird (2018), Camille Liotine (2018), Boryana Hadzhiyska (2016-17), Jane Saldanha (2013-14), Justin Alsing (2011-12), Mike Wilson (2011-12), Tom Collett (2010-11)

## Teaching

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2021-23	AST542, Graduate Seminar: Communicating Astronomy to the Public, Princeton PHY105, Introduction to Classical Mechanics, Princeton
2016-20	AST203, Introduction to the Universe, non-majors, Princeton PHY104, Electricity, Magnetism and Optics, Princeton
2008-15	Tutorial fellow at Exeter College, Oxford. Tutorials for physics undergraduates, including Classical Mechanics, Special Relativity, Optics, Statistical Mechanics, Thermodynamics, Stellar Astrophysics, Cosmology, General Relativity.

## Institutional Responsibilities

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2021-23	Faculty Advisory Committee on Diversity, Princeton University Climate Committee, Astrophysical Sciences, Princeton
2018-21	Chair, Climate Committee, Astrophysical Sciences, Princeton
2016-17, 2018-20	Graduate Admission committee, Physics Department, Princeton

## Professional activities

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2020-present	Board of Fund Managers, Kavli Institute for Cosmology, Cambridge
2017-21	Ombudsperson, LSST's Dark Energy Science Collaboration
2014-16	Rutherford Fellowship panel, STFC, UK
2012-16	Committee member, Education, Training and Careers committee, STFC, UK
2011-20	Editorial Board, Journal of Cosmology and Astroparticle Physics
Ongoing	NSF review panelist. Evaluator and referee: DoE, NSF, STFC grants, Royal Society fellowships; ApJ, PRD, PRL, JCAP, MNRAS