

Daniel Meerburg

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Research Profile

Postdoc Will Coulton

University of Cambridge, Cambridge, UK

I am a Senior Research Associate at the University of Cambridge / fixed-term Researcher at the University of Groningen, specialised in the field of cosmology. Topics I have worked on include inflationary model building, cosmic microwave background theory and data analysis, gravitational waves, the epoch of reionisation and 21 cm cosmology.

Education

| Ph.D. Astrophysics and Theoretical Physics | September 2011 |
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| University of Amsterdam, Advisors: Prof. Ralph Wijers and Dr. Jan Pieter van der Schaar Cum Laude | |
| Double MSc Astronomy and Theoretical Physics | September 2007 |
| at University of Amsterdam Amsterdam, the Netherlands | C 1 1 2004 |
| BA Interdisciplinary studies with major in Physics and Astronomy | September 2004 |
| at University of Amsterdam Amsterdam, the Netherlands Cum Laude | |
| Academic | |
| Researcher | Dec 2017 - now |
| at Kapteyn/VSI, University of Groningen, Groningen, the Netherlands | |
| Senior Kavli Fellow | 2017 – now |
| at KICC, University of Cambridge, Cambridge, UK | 0014 0017 |
| • CITA postdoctoral Fellow | 2014 – 2017 |
| at Canadian Institute for theoretical Astrophysics (CITA), Toronto, Canada Rubicon Fellow and Postdoctoral Fellow | 2011 - 2014 |
| at Department of Astrophysical Sciences / Physics, Princeton University, Princeton, USA | 2011 2014 |
| | |
| Fellowships, Grants and Awards | |
| Cambridge-LMU Strategic Partnership (E. 15.000) | 2018 |
| PI: Prof. Shellard and Prof. Mukhanov , Cambridge, UK | 2017 |
| • NWO VIDI grant (E. 800,000) | 2017 |
| at –, Den Haag, the Netherlands • Honorary Scholarship RUG (E. 4,500) | 2016 |
| at RUG, Groningen, the Netherlands | 2010 |
| O Delta ITP visting grant (E. 9,000) | 2016 |
| at University of Amsterdam, Amsterdam, the Netherlands | |
| Honorable mention Christiaan Huygens Prize | 2013 |
| Den Haag, the Netherlands | |
| Co-Pi New Frontiers in Cosmology grant (\$ 177,900) | 2012 – 2014 |
| PI: David Spergel, Princeton, USA | 2011 - 2013 |
| NWO Rubicon Fellowship (E. 110,000) at Department of Astrophysical Sciences, Princeton University, Princeton, USA | 2011 - 2013 |
| NWO PhD Toptalent Fellowship (E. 180,000) | 2007 - 2011 |
| Den Haag, the Netherlands | |
| ○ Co-Pi NWO Van Gogh Grant (E. 10,000) | 2007 - 2011 |
| PI: Koenraad Schalm, Den Haag, the Netherlands | |
| MSc Thesis of the year Award (E. 3,000) | 2007 |
| Amsterdam, the Netherlands | |
| Students and Postdocs | |
| | |

2018 - now

| Part III student David Baker | 2018 – now |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| University of Cambridge, Cambridge, UK PhD candidate Benjamin Beringue | 2017 – now |
| University of Cambridge, Cambridge, UK Summer students Connor Sheere and Braydon Mon (co-supervision) | 2017 - now |
| CITA, Toronto, Canada | 2017 – How |
| PhD candidate Adri Duivenvoorden (co-supervision) | 2016 – now |
| Oskar Klein Centre, Stockholm, Sweden Master student Darsh Kodwani CITA, Toronto, Canada | 2016 – now |
| Summer students Connor Sheere and Harrison Winch (co-supervision) | 2016 – 2017 |
| CITA, Toronto, Canada • Master student Dana Simard | 2014 – 2015 |
| CITA, Toronto, Canada | 2014 2013 |
| Summer students Sandy Yuan and Boryana Hadzhiyska (co-supervision) | 2013 – 2014 |
| Department of Astrophysical Sciences, Princeton University, Princeton, USA Visiting scholar Danu Thung (Amsterdam University College) Department of Astrophysical Sciences, Princeton University, Princeton, USA | 2014 |
| Teaching Activities | |
| Princeton Teaching Initiative | 2012 – 2014 |
| Lecturing and Course Preparation at NJ Prisons, USA Teaching Assistant | 2007 – 2011 |
| University of Amsterdam, Amsterdam, the Netherlands | |
| Organization of scientific Meetings | |
| Co-organizer: "Neutrinos and (g)astrophysics in large-scale structure" Website: http://www.cita.utoronto.ca/~meerburg/workshop CITA, Toronto, Canada | December 2016 |
| Organizer Lorentz workshop: "New challenges for early Universe cosmologists" Lorentz Center, Leiden, the Netherlands | August 2013 |
| Institutional responsibilities | |
| Cosmology lunch DAMTP | now - 2017 |
| DAMTP, Cambridge, UK • Visitor committee CITA | 2014 – 2017 |
| CITA, Toronto, Canada | 2011 2011 |
| CITA postdoc hiring committee CITA, Toronto, Canada | 2014 – 2017 |
| Visitor committee Princeton Spring Colloquia | 2013 – 2014 |
| Department of Astrophysical Sciences, Princeton University, Princeton, USA | 2012 2014 |
| Cosmology lunch Princeton/Institute for advanced Studies Department of Astrophysical Sciences/IAS, Princeton, USA | 2012 – 2014 |
| Dutch cosmology meetings | 2007 - 2011 |
| University of Amsterdam, University of Leiden, University of Utrecht, the Netherlands | |
| Commission of Trust | 0010 |
| NASA Astrophysics Theory Program panelist MD, USA | 2013 and 2016 |
| NASA Earth and Space Science Fellowship Program panelist | 2012 |
| Department of Astrophysical Sciences, Princeton University, Princeton, USA Reviewer Physical Review D (PRD), Physical Review Letters (PRL), and Journa ticle physics (JCAP) | al of Cosmology and Astropar- 2015 – now |
| Collaborations | |
| CCAT-p, Simons Observatory, PlanckCMB-S4 working group | 2016 - now 2015 - now |

Coding & **Software**

Python, C, IDL: Novice

Fortran: Advanced See e.g. www.cita.utoronto.ca/~meerburg/code

IDL and Python mostly used for plotting

Mathematica, GnuPlot, CAMB, CosmoMC: Advanced Healpix, Multinest, Polychord Intermediate

References



Prof. David N Spergel

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NJ, 08544 USA

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Prof. Benjamin D Wandelt

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