

Dr. Simeon Bird

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Research Interests

Early universe cosmology, massive neutrinos, the Lyman- α forest, absorption systems as probes of cosmology and galaxy formation, numerical simulations

Employment and Education

2014- *McWilliams Fellow, Carnegie Mellon University*
2011-2014 *Institute for Advanced Study (IAS), Princeton*
2011 *Ph.D. in Astronomy, University of Cambridge*
Thesis: "Constraining Fundamental Physics From Cosmology"
Advisors: Dr. Hiranya Peiris and Prof. Martin Haehnelt
2010 *M.A., University of Cambridge*
2007 *M. Math with Distinction, University of Cambridge*
Part III Essay: "Non-Gaussianity from Inflation"
Advisor: Dr. Paul Shellard
2006 *B.A. in Mathematics with Honours, University of Cambridge*
First Class Degree from Pembroke College

Awards

2007 *Tyson Medal, University of Cambridge*
Awarded only at the discretion of the examiners to the best-performing undergraduate student in Part III for subjects related to astronomy.
2007 *Atiyah Prize, Pembroke College Cambridge*
2006 *Foundation Scholarship, Pembroke College Cambridge*
2006 *College Prize, Pembroke College Cambridge*
2003-2007 *Isaac Newton Trust Bursary, University of Cambridge*

Advising Experience

2014 Joshua Suresh, under Prof. Hernquist, Harvard CfA
"The Impact of Galactic Feedback on the Circumgalactic Medium" (Suresh et al, MNRAS submitted)
2014 Kunting Eddie Chua, under Prof. Hernquist, Harvard CfA
"Structure Formation in the Axiverse", in preparation

Publications Total number of publications: 16
Number of first-author publications: 8
h-index: 9

Teaching Experience

2008 Supervisor, Cambridge Astrophysics Part II Relativity
Led tutorials and graded.

2008 Demonstrator, Computer-Aided Teaching of All Mathematics (CATAM)
Led programming tutorial sessions for entire undergraduate year.

2007 Research Assistant, Cambridge University
Evaluated programming languages for use in teaching Cambridge University undergraduates.

Selected Invited Talks

July 2014 IGM Matters Conference, Heidelberg, Germany

January 2014 Circumgalactic Medium Workshop at Notre Dame, IN, USA

December 2012 KICP, U. Chicago, Chicago, IL

April 2012 Finding the Neutrino Mass Workshop, Valencia, Spain

June 2011 Colloquium, Leicester University, UK

September 2008 Invited speaker, UKCosmo, Manchester, UK

Skills

Programming Experienced in C, C++, OpenMP, Python
Proficient in Fortran 90, IDL, MPI and Matlab

Languages Intermediate French and Italian, Basic German

Professional Service

2013 Informal Seminar organiser, IAS Astrophysics

2012 Cosmology Lunch organiser, IAS Astrophysics and Princeton Astronomy

2008-2011 Student Representative, Cambridge IoA Computing Advisory Committee

2011-present Referee for PRL, ApJ, MNRAS, JCAP

Affiliations Member of Royal Astronomical Society
KDE developer