

ADDRESS & PERSONAL DETAILS 52 Cathnor Road
Shepherds Bush **Date of birth:** 12 September 1982
London **Nationality:** British Citizen
W12 9JA **Email:** barney@barnabyrowe.net
 Website: <http://barnabyrowe.net>

EMPLOYMENT **Postdoctoral Research Scholar at University College London**
Gower Street, London, WC1E 6BT, United Kingdom
○ July 2011 — *present*
Part of the European Research Council-funded *Capitalizing on Gravitational Shear* (COGS) Project, led by Professor Sarah Bridle (Manchester).

Caltech Postdoctoral Scholar at the NASA Jet Propulsion Laboratory
4800 Oak Grove Drive, Pasadena, CA 91109, USA
○ January 2010 — July 2011 & February 2012 — August 2012
Optimizing the choice of pixel scale and detector technology for cosmic shear in the NASA/Department of Energy *Joint Dark Energy Mission* (now NASA *WFIRST*), with Jason Rhodes (JPL) & Christopher Hirata (Caltech).

DUEL Fellow at the Institut d’Astrophysique de Paris
98 bis, boulevard Arago, 75014 Paris, France
○ November 2007 — December 2009
With Yannick Mellier, a Fellowship as part of the *Dark Universe through Extragalactic Lensing* (DUEL) EU FP6 Research Training Network.

EDUCATION **Institute for Astronomy, University of Edinburgh, UK**
PhD, September 2004 — October 2007
Thesis Topic: ‘*Cosmological applications of weak gravitational flexion*’
Supervisors: David Bacon, Andy Taylor

University of Oxford, UK
Honours MPhys (Class I) in Physics, October 2000 – July 2004
Awarded Magdalen College Demyship (Prize Scholar) 2001 – 2004

RECENT PROJECTS **GREAT3** — <http://great3challenge.info>
The third Gravitational Lensing Accuracy Testing Challenge, GREAT3, is an ambitious blind testing experiment run within the astronomical community to improve measurement algorithms. Jointly led with Professor Rachel Mandelbaum (Carnegie Mellon University).

GalSim — <https://github.com/GalSim-developers/GalSim>
An open source, collaborative software development project to build a shared image simulation resource for understanding weak lensing data analysis, targeted at the extremely large extragalactic telescope datasets of the next decade.

CFHTLenS — <http://www.cfhtlens.org>
A modern analysis of extragalactic survey data from the Canada-France-Hawaii Telescope. The project constructed the largest map of dark matter yet made, and placed new constraints on the validity of Einstein’s General Relativity on cosmological scales.

- RECENT PUBLIC TALKS
- *The Hunt for Dark Energy* — The Cranbrook & District Science & Astronomy Society, 11 February 2013 (<http://cadsas.com/events>).
 - *The universe is expanding...* — TEDx@UCAFarnham, University for the Creative Arts, 15 May 2013 (<http://www.tedxucafarnham.com>).
 - *Using distant galaxies to explore the accelerating expansion of the Universe* — The UCL Diploma Club, graduates of the UCL Certificate of Higher Education in Astronomy, 16 May 2013 (<http://www.ucl.ac.uk/phys/admissions/certificate>).
- TEACHING & RELEVANT EXPERIENCE
- Graduate of the ‘*Teaching Physics in Schools*’ Option 2003, Oxford University. Included teaching assistant visits to local schools, and taught sections on Learning Cognition and Development at the Oxford University Department of Education.
 - Course Teaching Assistant: ‘*Astronomy 1A, 1B, 1C*’ First-year Options 2004-2006, University of Edinburgh (students aged 17-18 years in Scotland).
 - Course Teaching Assistant: ‘*General Relativity*’ MPhys & Senior Honours Option 2004-2006, University of Edinburgh.
 - Private Tutor: ‘*Statistical Mechanics*’ & ‘*Principles of Mathematical Physics*’ Junior Honours Options 2004-2005, University of Edinburgh.
 - Course Teaching Assistant: ‘*Physics of Stars & Nebulae*’ Junior Honours Option 2005-2006, University of Edinburgh.
 - Workshop Tutor: ‘*Physics 2A (Vectors & Classical Mechanics)*’ & ‘*Physics 2B (Waves)*’ Second-year Pre-Honours Core Physics Options 2004-2006, University of Edinburgh.
 - Laboratory Demonstrator: ‘*Physics 2B Practical Laboratories*’ Second-year Pre-Honours Practical Course 2006, University of Edinburgh.
 - Executive Secretary of the Scientific Organizing Committee, and Chair of the Local Organizing Committee, for the DUEL *Cosmology & Lensing Summer School* (<http://www.iap.fr/DUEL2009>): a two-week pedagogical cosmology summer school held in Paris, August-September 2009.
 - Coordinator for the monthly Student & Postdoc Seminar Club 2008-2009, Institut d’Astrophysique de Paris.
- LANGUAGES
- English (Native)
 - French (Professional working proficiency)
- PERSONAL INTERESTS
- Music is a source of great pleasure to me, and as well as singing in choirs I have played guitar in blues bands while in Oxford, Edinburgh and London. Not finding a band in Paris, I took to DJ-ing instead. At Oxford, I was Treasurer and subsequently Entertainments Officer for the Magdalen College Junior Common Room, and have found that I greatly enjoy taking an active part in the social and extracurricular life of the institutions in which I have studied and worked. Other interests include computer programming, steam engines & cycling.
- ACADEMIC REFERENCES
- Professor Sarah Bridle (research director) – sarah.bridle@manchester.ac.uk
Jodrell Bank Center for Astrophysics, School of Physics and Astronomy, University of Manchester, Oxford Road, Manchester, M13 9PL.
 - Dr David Bacon (PhD supervisor) — david.bacon@port.ac.uk
Institute of Cosmology and Gravitation, University of Portsmouth, Dennis Sciama Building, Burnaby Road, Portsmouth, PO1 3FX.
- PUBLICATIONS
- Please see <http://barnabyrowe.net> for a full list.