

Will Handley

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(TSB Application No. 1153)

Education

- 2012–2016 **University of Cambridge**, *PhD: Astrophysics*, Prof. A. Lasenby & Prof. M. Hobson.
2008–2012 **University of Cambridge**, *MA, Msc: Natural Sciences*, Gonville & Caius College.
2001–2008 **Alleyn's School**, *A levels, GCSEs*, London.

Experience

Research

- Oct 2016– **Junior Research fellow**, *Gonville & Caius College*, University of Cambridge.
Jul-Sep 2016 **Postdoctoral position**, *Prof. H. Peiris*, University College London.
Searching for features in the primordial power spectrum.
2012–2016 **PhD: Astrophysics**, *Prof. A. Lasenby & Prof. M. Hobson*, University of Cambridge.
Kinetic initial conditions for inflation: Theory, observations & methods.
2011–2012 **Part III Dissertation**, *Prof. P. Alexander*, University of Cambridge.
Investigating the origins of cosmic magnetism.
Summer 2011 **Summer Research Student**, *Prof. M. Faulkes & Dr. J. Spencer*, Imperial College.
Folded spectrum full configuration interaction quantum Monte Carlo.
Summer 2011 **Summer Research Student**, *Dr. R. Blumenfeld*, University of Cambridge.
Geometry and field equations of granular systems.
2010–2011 **Research Review**, *Prof. S. Gull*, University of Cambridge.
Literature Survey of the Physics-Philosophy crossover field of measurement theory.
Summer 2010 **iGEM Team Physicist**, *Dr. J. Haseloff*, University of Cambridge.
E-glowli 2010 iGEM team (placed in final 6) <http://2010.igem.org/Team:Cambridge>

Teaching

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|--------------|-------------------------------------|---|
| 2013-present | Part II Physics: General relativity | Supervising |
| 2012-present | Part IA Mathematics for NatSci | Supervising, Tripos classes |
| 2013 | Part II Theoretical Physics 1 & 2 | Demonstrating |
| 2006–2012 | Maths and Science Tuition | Individual coaching, key stage 1 — STEP |

Selected Outreach

Over the course of my career I have given 16 public outreach talks including:

- May 2015 **Intro. to Astronomy: Beyond the Milky Way**, *IoA Public Talk*, Cambridge.
May 2015 **To infinity and beyond: Dark Energy**, *Pint of Science*, Cambridge Brewhouse.
Jan. 2014 **The first 3 yocto-pico seconds**, *Three minute wonder*, Cavendish Laboratory.

Awards & Prizes

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|-----------|-----------------------------------|-------------------------------------|
| Dec. 2013 | Best presentation | Cavendish grad. students conference |
| Jun. 2012 | Best theoretical part III project | University of Cambridge |
| | Physics prize | Gonville & Caius College |

Summer 2011 Undergraduate Research Bursary
UROP Studentship
Summer 2010 iGEM Studentship
2009–12 Junior and Senior Scholarships

Nuffield Foundation
Imperial College
Wellcome Trust
Gonville & Caius College

Academic Talks

Jun. 2017 **Modern Bayesian Inference: Theory and Practice**, RWTH Aachen, Germany.
Mar. 2017 **Parameter estimation and Model comparison, IFT Summer School**, Madrid, Spain.
Feb. 2017 **PolyChord 2.0: Advances in Nested Sampling & astrophysical application**, CCA, US.
Sep. 2016 **PolyChord 2.0 & the future of nested sampling**, University College London, UK.
May. 2016 **PolyChord 2.0 & the future of nested sampling**, University of Sussex, UK.
Mar. 2016 **PolyChord & the future of nested sampling**, Edinburgh, UK.
Dec. 2015 **PolyChord: next generation nested sampling**, Max Planck Institute, Germany.
Feb. 2015 **PolyChord: next generation nested sampling**, University of Sussex, UK.
Dec. 2013 **Kinetic dominance in the pre-inflationary universe**, Cavendish grad. conference.

Computer skills

Programming MPI parallelisation, C++, FORTRAN, Mathematica, Maple, Python
Computing Unix, Bash, zsh, vim, git, svn, L^AT_EX, TikZ, VMs
OS Linux & HPC supercomputing (Experienced), Windows & OSX (Familiar)

Publications

- [1] W. Handley, M. Hobson, and A. Lasenby, MNRAS **453**, 4384 (2015), arXiv:1506.00171 .
- [2] W. Handley, M. Hobson, and A. Lasenby, MNRAS **450**, L61 (2015), arXiv:1502.01856 .
- [3] W. Handley, S. Brechet, A. Lasenby, and M. Hobson, PRD **89**, 063505 (2014), arXiv:1401.2253 .
- [4] W. Handley, A. Lasenby, and M. Hobson, arXiv (2016), arXiv:1612.02288 .
- [5] W. Handley, A. Lasenby, and M. Hobson, PRD **94**, 024041 (2016), arXiv:1607.04148 .
- [6] S. Hee, J. Vázquez, W. Handley, *et al.*, MNRAS **466**, 369 (2017), arXiv:1607.00270 .
- [7] E. Higson, W. Handley, M. Hobson, and A. Lasenby, arXiv (2017), arXiv:1704.03459 .
- [8] E. Higson, W. Handley, M. Hobson, and A. Lasenby, arXiv (2017), arXiv:1703.09701 .
- [9] G.-B. Zhao *et al.*, arXiv (2017), arXiv:1701.08165 .
- [10] C. Rumsey *et al.*, MNRAS **460**, 569 (2016), arXiv:1604.06120 .
- [11] S. Hee, W. Handley, M. Hobson, and A. Lasenby, MNRAS **455**, 2461 (2016), arXiv:1506.09024 .
- [12] The CORE collaboration, arXiv (2017), arXiv:1707.04224 .
- [13] The CORE collaboration, arXiv (2017), arXiv:1707.02259 .
- [14] The CORE collaboration, arXiv (2017), arXiv:1706.04516 .
- [15] The CORE collaboration, arXiv (2017), arXiv:1705.02170 .
- [16] The CORE collaboration, arXiv (2017), arXiv:1704.05764 .
- [17] The CORE collaboration, arXiv (2017), arXiv:1704.04501 .
- [18] The CORE collaboration, arXiv (2017), arXiv:1703.10456 .
- [19] The CORE collaboration, arXiv (2016), arXiv:1612.08270 .
- [20] The CORE collaboration, arXiv (2016), arXiv:1612.00021 .
- [21] The CORE collaboration, arXiv (2016), arXiv:1609.07263 .
- [22] The Planck collaboration, A&A **594**, A20 (2016), arXiv:1502.02114 .
- [23] The Planck collaboration, A&A **594**, A1 (2016), arXiv:1502.01582 .

References

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Prof. Mike Hobson, +44 (0)1223 339992, mph@mrao.cam.ac.uk