Stephen Taylor | Curriculum Vitae

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Education

Institute of Astronomy, University of Cambridge — **Cambridge, UK**
PhD (Astronomy) — *2010–2014*

University of Oxford — **Oxford, UK**
MPhys, First Class — *2006–2010*
Graduated 4^{th} in University

Doctoral Thesis

Title: *Exploring the cosmos with gravitational waves*

Supervisor: Dr. Jonathan R. Gair

Description:

Professional experience

NASA Jet Propulsion Laboratory — **Pasadena**
NASA Postdoctoral Fellow — *2014–Present*

California Institute of Technology — **Pasadena**
Visting scholar (TAPIR group) — *2014–Present*

Awards

2015: International Pulsar Timing Array (IPTA) Steering Committee Prize — "Honourable Mention"

2015: Gravitational Wave International Committee (GWIC) Thesis Prize — "Honourable Mention"

2014: NASA Postdoctoral Fellowship (JPL)

2010: Science and Technology Facilities Council (STFC) PhD Studentship at IoA Cambridge

2007–2010: Undergraduate Scholar of Jesus College, Oxford

2008: Examiner's Prize, Oxford Physics Speaking Competition

2007: Oxford Physics department prize for laboratory work

2006–2010: Various Oxford undergraduate departmental and college examination prizes

Teaching experience

2011–2013: Supervisor for Cambridge Part II undergraduate students in Relativity

2011: Updated Cambridge Part II undergraduate computing projects from C to Matlab

Computer skills

OS: Linux/Unix, Windows

Programming: C/C++, Python

Typography: LaTeX, Microsoft Office, Pages, OpenOffice

Scientific: Mathematica, Matlab, Python

GPU Programming: CUDA C, PyCUDA

Outreach

2013: Presentation at the Institute of Astronomy Open Day

2012–2014: Presentation to prospective students (Institute of Astronomy graduate interviews)

2012: Outreach talk at Institute of Astronomy public-observing evening

2011: Presentation at the Institute of Astronomy Open Day

Professional affiliations

American Physical Society: Member

American Astronomical Society: Member

North American Nanohertz Observatory for Gravitational waves (NANOGrav): Full member

Royal Astronomical Society: Fellow

European Pulsar Timing Array (EPTA): Member

International Pulsar Timing Array (IPTA): Member

Recent presentations

Invited talks

Contributed talks

Seminars

Dec 2015: Prospects for near future detection and astrophysical inference with PTAs, CaJAGWR seminar, California Institute of Technology

May 2013: Searching For Anisotropic Gravitational-wave Backgrounds Using Pulsar Timing Arrays, Albert Einstein Institute (AEI), Hanover

Feb 2013: Weighing the evidence for a gravitational-wave background, Institute of Astronomy seminar, University of Cambridge

Dec 2012: Weighing the evidence for a gravitational-Wave background, University of Birmingham

Jun 2012: Milestones in Spacetime: Double Neutron-Star Binaries as Gravitational-Wave Standard Sirens, Institute of Astronomy seminar, University of Cambridge

Posters

Aug 2015: Galactic environment effects on gravitational wave signals in pulsar timing arrays, Postdoc Research Day, NASA Jet Propulsion Laboratory

Aug 2012: Cosmology without EM counterparts: Standard sirens in the advanced

ERA AND BEYOND, Rattle and Shine, KITP Santa Barbara

Dec 2011: COSMOLOGY USING ADVANCED GRAVITATIONAL-WAVE DETECTORS ALONE, Graduate Student Conference 2011, Cavendish Laboratory, University of Cambridge