

Angus Williams

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LINKS

Github:// [anguswilliams91](#)
LinkedIn:// [anguswilliams91](#)
stackoverflow:// [Angus Williams](#)

EDUCATION

OXFORD UNIVERSITY

MPhys, PHYSICS

Oct. 2009 - Jun. 2013

First class

CAMBRIDGE UNIVERSITY

Ph.D., ASTROPHYSICS

Oct. 2013 - present

SKILLS

PROGRAMMING

Python • C • C++ • git • Linux • MacOSX
• \LaTeX • SQL

STATISTICS

Bayesian statistics • model building •
MCMC methods • Data visualisation

PUBLICATIONS

Contributed to 9 papers that have been published in academic journals. Studies that I have led:

- “The Gaia-ESO survey: metal-rich bananas in the bulge”, *ApJL*, 824, 29
- “Haloes light and dark: dynamical models of the stellar halo and constraints on the mass of the Galaxy”, *MNRAS*, 454, 698
- “Made-to-measure dark matter haloes, elliptical galaxies and dwarf galaxies in action coordinates”, *MNRAS*, 448, 1630
- “Hamiltonians of spherical Galaxies in action-angle coordinates”, *MNRAS*, 442, 1405

OTHER INTERESTS

Machine learning • football (Arsenal) •
rugby (Wasps) • running • music

EXPERIENCE

MATHWORKS | DEVELOPMENT INTERN

Jul. 2012 – Sep. 2012 | Cambridge, UK

- Constructed performance tests for the parallel computing toolbox group.

CERN | SUMMER STUDENT

Jun. 2011 – Sep. 2011 | Geneva, Switzerland

- Analysed data from the CMS detector, looking for signal from the Higgs Boson.

AWARDS

2010 - 2013 Academic Scholarship, Oxford University

2013 - 2017 STFC studentship

TEACHING

CAMBRIDGE UNIVERSITY | STATISTICAL PHYSICS

Jan. 2014 – Jun. 2015

Taught 14 undergraduate students the 3rd year course “Statistical Physics”. This involved both small group (1 or 2 students) and large group (6+ students) teaching.

PRIVATE TUTORING

Jun. 2010 – Jun. 2013

Personal tutoring to students aged 8 - 18, preparing them for various public examinations in mathematics and science.

COMMUNICATION SKILLS

TECHNICAL

Delivered seminars and colloquia about my work to academics at international conferences and elsewhere.

OUTREACH

Given talks explaining concepts in Astronomy to members of the public of all ages.

EXTRA-CURRICULAR

SEH RUGBY CLUB | SECRETARY

Oct. 2010 – Oct. 2011 | Oxford University

- Secured sponsorship for the team, allowing us to invest in new playing kit and training equipment.
- Organised matches and social events for the club, and ran training sessions.

MANO A MANO | VOLUNTEER

Jun. 2013 – Aug. 2013 | Cochabamba, Bolivia

- Constructed water cisterns from raw materials with other volunteers, for use by communities in rural Bolivia.
- Organised fundraising events in order to secure raw materials for the water cisterns and other necessary equipment for the project.

RUGBY HONOURS

U15 Hertfordshire representative 2006 • U17 National Cup winner 2008 • Oxford vs. Cambridge colleges varsity winner 2011 • Oxford University Cuppers winner 2012, 2013 • Oxford University Sevens winner 2012