

# Ruth Angus

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Dphil candidate, University of Oxford, Denys-Wilkinson Building, Keble Road, Oxford, OX1 3RH

## Education

PhD (expected) 2016, Subdepartment of Astrophysics, University of Oxford. Advisor: Professor Suzanne Aigrain.

Predoctoral fellowship 2015, Harvard-Smithsonian Center for Astrophysics. Advisor: Professor John Asher Johnson.

MPhys Physics with Astrophysics 2012, Department of Physics, University of Southampton, UK. Advisor: Dr David Latham (Harvard-Smithsonian Center for Astrophysics).

## Academic Awards

Predoctoral Fellowship, Harvard-Smithsonian Center for Astrophysics (2014).

Highest score in third year undergraduate studies, University of Southampton (2011).

Highest overall score in undergraduate studies, University of Southampton (2012).

## Principal investigator observing plans and observing experience

PI: *Searching for Super-Earths orbiting evolved stars* Planet Finder Spectrograph on the Magellan Telescope, Las Campanas, Chile, 2 nights awarded, 2015.

PI: *Optimising an observing strategy to search for planets orbiting evolved stars* Planet Finder Spectrograph on the Magellan Telescope, Las Campanas, Chile, 2 nights awarded, 2015.

Observer: Sophie spectrograph, Observatoire d'Haute Provence, 6 nights, September 2013.

Observer: TRES spectrograph, Fred Lawrence Whipple Observatory, 5 nights, November 2011.

## Recent talks and tutorials

*K2 asteroseismology*, Invited review talk, K2 special session, AAS 227, Kissimmee, Florida, January 2016.

*Stellar ages from stellar rotation*, Dissertation talk, AAS 227, Kissimmee, Florida, January 2016.

*Towards an age for every star: calibrating the age-rotation relations*, Astrophysics Colloquium, The Ohio State University September 2015.

*Stellar ages and stellar rotation*, invited seminar, Princeton University, September 2015.

*Towards an age for every star: calibrating the age-rotation relations*, invited seminar, Canadian Institute for Theoretical Astrophysics, University of Toronto, September 2015.

*Stellar rotation, asteroseismology and gyrochronology*, invited seminar, Harvard-Smithsonian Center for Astrophysics, August 2015.

*Gyrochronology with K2 and TESS*, contributed talk, International Astronomical Union meeting XXIX, Honolulu, HI, August 2015.

*Probabilistic stellar rotation periods with Gaussian processes*, contributed talk, International Astronomical Union meeting, Honolulu, HI, August 2015.

*What K2 can do for gyrochronology*, invited seminar, NASA Ames, Mountain View, CA,

July 2015.

*An introduction to Gaussian processes*, tutorial, Harvard-Smithsonian Center for Astrophysics, July 2015.

*The Systematics-Insensitive Periodogram for K2*, invited seminar, Massachusetts Institute of Technology, June 2015.

*The Systematics-Insensitive Periodogram for K2*, contributed talk, Emerging researchers in exoplanets symposium, Penn State University, May 2015.

*Gyrochronology and asteroseismology with Kepler and K2*, invited seminar, Boston University, April 2015.

*Calibrating gyrochronology*, contributed talk, American Astronomical Society meeting, Seattle, WA, January 2015.

*Calibrating gyrochronology using Kepler asteroseismic targets*, invited seminar, University of Sheffield, UK, December 2014.

*Calibrating gyrochronology using Kepler asteroseismic targets*, contributed talk, Planets across the HR diagram, Cambridge University, UK, August 2014.

*Calibrating gyrochronology using Kepler asteroseismic targets*, contributed talk, Cool Stars 18, Flagstaff, AZ, June 2014. *Measuring stellar rotation periods using Gaussian processes*, contributed talk, Exoplanet statistics meeting, Carnegie-Mellon University, Pittsburgh, PA, June 2014.

*Calibrating gyrochronology using Kepler asteroseismic targets*, invited seminar, New York University, New York, March 2014.

*Gyrochronology, stellar rotation and Gaussian processes*, invited seminar, Harvard-Smithsonian Center for Astrophysics, February 2014.

*Calibrating gyrochronology using Kepler asteroseismic targets*, Kepler science conference, NASA Ames, Mountain View, CA, November 2013.

### **Writing, teaching and public outreach**

Science expert: *The Sky at Night* (BBC television), November 2015.

Teaching: Astrophysics labs demonstrator, University of Oxford, 2013-2014.

Writer: BBC focus magazine book reviews (2014).

Writer: Astrobites blog (2013-2015).

*The end of the world is nigh!*, Public talk, Green Man festival, Brecon Beacons, Wales, UK, August 2014.

*The end of the world is nigh!*, Public talk, Wilderness festival, Brecon Beacons, Wales, UK, August 2014.

*Exoplanets and where to find them*, Public talk, The Idler magazine, London, July, 2014.

*Dark Sky Status*, Play, *Curious Directive* theater company, Performer and scientific advisor, Latitude festival, UK, July, 2013.

*Extrasolar planets: from science fiction to reality*, winner of the Physics graduate outreach talk competition, University of Oxford, 2012.