

Ruth Angus

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Simons postdoctoral junior fellow, Department of Astronomy, Columbia University, 550 W 120th St, New York, NY 10027

Education

D. Phil (Ph.D.) June 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

Simons Fellowship (2016-2019).

Predoctoral Fellowship, Harvard-Smithsonian Center for Astrophysics (2014-2015).

Leverhulme Trust funding award (2013-2014).

Science and Technologies Facilities Council funding award (2012-2013).

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

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

Principal investigator observing projects

PI: *Radial velocity follow-up of Gaia wide-binary candidates in the Kepler field*, ModSpec spectrograph on the Hiltner 2.4m telescope, MDM observatory, Kitt Peak, AZ, 5 nights awarded 2017.

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.

First Author Publications

Angus, R. & Kipping, D. *Probabilistic Inference of Basic Stellar Parameters: Application to Flickering Stars*, 2016, *ApJ Letters*, 823, 9.

Angus, R., Foreman-Mackey, D., Johnson, A., J., *Systematics-insensitive Periodic Signal Search with K2*, 2016, *ApJ*, 818, 109

Angus, R., Aigrain, S., Foreman-Mackey, D., McQuillan, A., *Calibrating Gyrochronology using Kepler Asteroseismic Targets*, 2015, *MNRAS*, 225, 112.

Co-authored Publications

Vanderburg, A., & others including **Angus, R.**, *A disintegrating minor planet transiting a white dwarf*, 2015, *Nature*, 526, 7574, 546.

Vanderburg, A., & others including **Angus, R.**, *Characterizing K2 Planet Discoveries: A Super-Earth Transiting the Bright K Dwarf HIP 116454*, 2015, *ApJ*, 800, 59.

Parviainen, H., & others including **Angus, R.**, *Transiting exoplanets from the CoRoT*

space mission. XXV. CoRoT-27b: a massive and dense planet on a short-period orbit, 2014, *Astronomy & Astrophysics*, 562, 140.

Coe, M. J., **Angus, R.**, Orosz, J. A., Udalski, A. *A detailed study of the modulation of the optical light from Sk160/SMC X-1*, 2013, *MNRAS*, 433, 746.

Non-refereed Publications

Angus, R., Morton, T., Aigrain, S. & Foreman-Mackey, D., *Inferring stellar rotation periods using Gaussian processes*, *MNRAS* submitted (in review).

Foreman-Mackey, D., Agol, E., **Angus, R.**, Ambikasaran, S., *Fast and scalable Gaussian process modeling with applications to astronomical time series*, *ApJ* submitted (in review), <https://arxiv.org/abs/1703.09710>

Najita, J., & others, including **Angus, R.**, *Maximizing Science in the Era of LSST: A Community-Based Study of Needed US Capabilities*, 2016, ArXiv only, <https://arxiv.org/abs/1610.01661>

Hawley, S. L., **Angus, R.**, Buzasi, D., Davenport, J., R., A., Giampapa, M., Kashyap, V., Meibom, S., *Maximizing Science in the Era of LSST, Stars Study Group Report: Rotation and Magnetic Activity in the Galactic Field Population and in Open Star Clusters*, 2016, ArXiv only, <https://arxiv.org/abs/1607.04302>

Aigrain, S., & others including **Angus, R.**, *Monitoring young associations and open clusters with Kepler in two-wheel mode*, 2013, ArXiv only, <https://arxiv.org/abs/1309.0737>

Montet, B. T., & others including **Angus, R.**, *Maximizing Kepler science return per telemetered pixel: Searching the habitable zones of the brightest stars*, 2013, ArXiv only, <https://arxiv.org/abs/1309.0654>

Hogg, D., W., & others including **Angus, R.**, *Maximizing Kepler science return per telemetered pixel: Detailed models of the focal plane in the two-wheel era*, 2013, ArXiv only, <https://arxiv.org/abs/1309.0653>