Simon Walker

Education

2009-2013 PhD at the University of Warwick (Coventry, UK)

Analysis and optimisation of ground-based transiting-exoplanet surveys, involving extensive data analysis and modelling and development of a new project

2005-2009 MPhys at the University of Warwick (Coventry, UK)

Grade: 2:1, included a number of astronomy modules, electrodynamics and a project studying Kuiper Belt Objects

2003-2005 A Levels at City of London Freemen's School (Ashtead)

4 A's, Maths, Physics, Electronics, Music Technology

2001-2003 GCSEs at City of London Freemen's School (Ashtead)

10 A's or A*'s

Scientific publications

S. R. Walker et al. Determining the underlying hot Jupiter distribution through an under- standing of WASP selection effects. In prep., 2013.

P. J. Wheatley et al. The Next Generation Transit Survey (NGTS). In *European Physical Journal Web of Conferences*, volume 47 of *European Physical Journal Web of Conferences*, page 13002, April 2013.

B. Chazelas et al. NGTS: a robotic transit survey to detect Neptune and super-Earth mass planets. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 8444 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, September 2012.

Previous employment

2014- Postdoctoral research fellow at the University of Warwick (Coventry, UK)

Working on the NGTS ground based transit survey. Largely writing production analysis software for the instrument, and data analysis looking into improving data quality.

2009-2011 Undergraduate physics assessor at the University of Warwick (Coventry, UK)

Assessing undergraduate students' 2nd year astronomy lab books, and developing critical thinking skills when judging the work quality.

Computing experience

Python Scientific analysis packages, statistical inference, data visualisation
C++ High performance programs, low level memory management
Javascript Interactive web applications, web servers
Operating systems Linux, Mac OSX
Others C, HTML, Ruby, Haskell, LaTeX, SQL
Open source https://github.com/mindriot101

Interests

Music I enjoy performing music in a group, either through singing in a chorus or playing the guitar in a band.
Sport I like to play squash, badminton and tennis and cycle regularly
Games I find board games provide both competitive and cooperative ways of approaching problems, leading to new ways of thinking

s.r.walker101@googlemail.com • +44 7751 012585 • 2A Melbourne Road, Coventry, CV5 6JP