Simon Walker Curriculum Vitae

PERSONAL DETAILS

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EDUCATION

Ph.D. in Astrophysics

University of Warwick

Sep 2009 - Sep 2013

"Analysis and optimisation of ground based transiting exoplanet surveys". Through my work with the NGTS prototype, I developed analysis pipelines, with which I characterised the noise properties of the system, and influenced the final design of the instrument. I also applied analysis techniques, such as bootstrapping and regression, to planets found with the WASP project to compute the occurrence rate of Jupiter-like planets.

MPhys. in Physics

Sep 2005 - Sep 2009

University of Warwick

Achieved a 2:1. This included a project modelling astrophysical events, using C.

WORK EXPERIENCE

Post-doctoral Research Associate

Jan 2014-present

University of Warwick, Full-time

I continued to work on the NGTS project, designing and implementing software for the main analysis pipeline. This included routinely processing 70GB of data per night to search for extrasolar planets, along with assessment, monitoring and visualisation of the analysis pipeline. I have also been leading a distributed team in the further development of data techniques and tools, involving members in multiple time zones, and coordinating our efforts.

SKILLS

Python, C++, C, SQL Primary languages

RUST, HTML, CSS, JAVASCRIPT, LATEX Other languages

Numpy, Matplotlib, CUDA, Scikit-Learn, Tensorflow Libraries*Techniques* MCMC, regression, machine learning, statistics, visualisation

Operating systems Linux, macOS, BSD

REFERENCES

Available upon request