

# Simon Walker

*Curriculum Vitae*

## PERSONAL DETAILS

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<i>Address</i>	16 Bott Road, Coventry
<i>Phone</i>	(+44)7751 012585
<i>Mail</i>	s.r.walker101@googlemail.com
<i>Github</i>	<a href="https://github.com/mindriot101">https://github.com/mindriot101</a>
<i>LinkedIn</i>	<a href="https://www.linkedin.com/in/simon-walker-a5036663">https://www.linkedin.com/in/simon-walker-a5036663</a>

## EDUCATION

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**Ph.D. in Astrophysics** Sep 2009 - Sep 2013  
*University of Warwick*

*“Analysis and optimisation of ground based transiting exoplanet surveys”.* Through my work with a prototype telescope, 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.

**Masters degree in Physics** Sep 2005 - Sep 2009  
*University of Warwick*

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

## WORK EXPERIENCE

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**Senior Research Engineer** June 2017-present  
*The Manufacturing Technology Center, Full-time*

As part of the *Data and Information Systems team*

**Post-doctoral Research Associate** Jan 2014-June 2017  
*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 an international distributed team in the further development of data techniques and tools, involving members in multiple time zones, and coordinating our efforts.

## SKILLS

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<i>Primary languages</i>	PYTHON (9+ years), C/C++ (9+ years), SQL (5 years)
<i>Other languages</i>	RUST, HTML, CSS, JAVASCRIPT, L <sup>A</sup> T <sub>E</sub> X
<i>Libraries</i>	NUMPY, MATPLOTLIB, TENSORFLOW, SCIKIT-LEARN
<i>Techniques</i>	deep learning, MCMC, regression, machine learning, statistics,
<i>visualisation</i>	
<i>Operating systems</i>	Linux, macOS, BSD, Windows

## REFERENCES

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