

# Simon Walker

*Curriculum Vitae*

## PERSONAL DETAILS

---

<i>Address</i>	2A Melbourne 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

---

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

*“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

---

<i>Primary languages</i>	PYTHON, C++, C, SQL
<i>Other languages</i>	RUST, HTML, CSS, JAVASCRIPT, L <sup>A</sup> T <sub>E</sub> X
<i>Libraries</i>	NUMPY, MATPLOTLIB, CUDA, SCIKIT-LEARN, TENSORFLOW
<i>Techniques</i>	MCMC, regression, machine learning, statistics, visualisation

## REFERENCES

---

Available upon request