









# DR NEIL PARLEY

Curriculum vitae

 British Citizen	 Doha, Qatar
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## Work experience

- Since ● **Scientist**  
05/2014 [Qatar Environment and Energy Research Institute | Doha, Qatar](#)  
Developing data processing software to add an automation and monitoring layer enabling data to be processed efficiently on a PBS supercomputer system. Developing automation of data ingestion to the project archive. Creating new web based and terminal software tools to enable science to be performed efficiently on the archive data. Designing new data archiving solutions to handle increasing data.  
(Python, C++, IDL, MySQL, Fortran, PHP, HTML, Perl, GIT, Linux)
- 03/2014 ● **Scientific Programmer (QES)**  
02/2010 [University of St Andrews | St Andrews, United Kingdom](#)  
Developer for [Qatar Exoplanet Survey \(http://www.qatarexoplanet.org/\)](http://www.qatarexoplanet.org/). Responsibilities included, data analysis pipeline software development and maintenance, data monitoring and assessment, and data processing operations and scheduling.  
(Python, Fortran, C++, IDL, PHP, MySQL, HTML, SVN, GIT and Linux)
- 01/2010 ● **Scientific Programmer (SuperWASP)**  
09/2008 [University of St Andrews | St Andrews, United Kingdom](#)  
Developer on SuperWASP (<http://www.superwasp.org>) telescope data reduction software pipeline. Responsible for improving the performance and speed of the data analysis and maintaining existing code.  
(Fortran, C++, Perl, PHP, MySQL, CVS, C-Shell Scripts and Linux)

## Education

- 09/2008 ● **The Open University | Ph.D. Planetary and Space Science**  
10/2004 [Milton Keynes, United Kingdom](#)  
Dissertation Topic: Serendipitous Surveys of the Solar System Using SuperWASP  
The project involved writing numerical code to predict asteroid positions and then matching them to data detected by SuperWASP. As the main goals of the SuperWASP telescope are to detect transiting exoplanets and not to collect asteroid data, many problems had to be solved in order to achieve high quality results.  
(C, C++, Fortran, IDL, PHP, Perl, MySQL, HTML, CVS, Windows and Linux)
- 08/2004 ● **The University of Warwick | MPhys Physics 2:1**  
10/2000 [Coventry, United Kingdom](#)  
Dissertation Topic: Comparative Population Studies of Cataclysmic Binaries  
4 year Master of Physics course with modules on Classical Physics (such as Fluid Dynamics, Electrodynamics and Mechanics), Quantum Physics, Astrophysics, Interdisciplinary Physics (such as Weather and the Environment), Microprocessing and Fortran Labs and high level Mathematical Methods.  
(Fortran, Mathematica, BASIC, SuperMongo)
- 08/2000 ● **Montsaye Community College | A-levels**  
10/1998 [Rothwell, United Kingdom](#)  
Physics (A), Maths (A) and Computers (A)

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## ★ Personal projects

- **myLatitude | Open Source Web Project (<https://bitbucket.org/nparley/mylatitude>)**  
This is a Google App Engine project for creating a personal latitude server replacement. The app creates an endpoint for location updates and enables the creation of a white list of allowed users who can view your location.  
(Python, GAE, HTML, CSS3, JavaScript, Google Maps API, GIT)
- **Asteroid API | Web API and Front end ([asteroids.neilparley.com](http://asteroids.neilparley.com))**  
Creating a public assessable RESTfull API, and interactive frontend to the Asteroid data collected by code written during my PhD. The app is wirrtten in a Python microframe work called Bottle.  
(Python, MySQL, HTML, JavaScript, jQuery, jQuery-UI)
- **Personal Web Site | Web front end ([neilparley.co.uk](http://neilparley.co.uk))**  
I have engaged in many personal web development projects. One example is creating a custom database driven travel app, which I use to track my trips.  
(HTML, PHP, MySQL, CSS3, JavaScript, jQuery, Google Maps API)

## 🔧 My skillset

Python	●●●●●	PHP	●●●●●	Javascript	●●●●●
CSS	●●●●●	HTML	●●●●●	Perl	●●●●●
Linux	●●●●●	Mac Os X	●●●●●	Windows	●●●●●
C	●●●●●	C ++	●●●●●	Fortran	●●●●●
GIT	●●●●●	Subversion	●●●●●	CVS	●●●●●
BASH	●●●●●	C shell	●●●●●	IDL	●●●●●
MYSQL	●●●●●	GAE ndb	●●●●●		

## 📝 Publications / Presentations

Author or co-author on 67 scientific papers with approximately 2600 citations and I have presented at scientiic conferences in Brazil, Chile, Portugal, Italy and the USA.

## 🏆 Awards

- 2010 ● **RAS Group Achievement Award for Astronomy**  
SuperWASP
- 2004 ● **Commendation of an excellent Project**  
4th year project, The University of Warwick
- 2000 ● **Duke of Edinburgh's Award**  
Silver

## ♥ Hobbies

Technology | Travel | Phtography | Yoga