

# Christopher Edward Atkin-Granville

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## Education

2012 – present MASTER OF SCIENCE in Computer Science, University of Edinburgh  
Specializing in *Computer Systems, Software Engineering and High-Performance Computing*. Modules include *Design and Analysis of Parallel Algorithms*, *Threaded Programming* (at EPCC), *Distributed Systems* and *Multi-Agent Semantic Web Systems* (see all modules). Currently predicted to graduate with high distinction.

2009 – 2012 BACHELOR OF SCIENCE in Computer Science, University of Keele  
With first-class honours. Modules included *Advanced Programming Practices*, *Computational Intelligence 1* and *2*, *Advanced Databases & Applications* and *Communications & Networks*. Took additional modules in mathematics, forensic science, Russian language and astrophysics.

## Research

2012 – present **Auto-Threading Compilers**  
I am currently working on my MSc dissertation, which is investigating compile-time profiling of Java Virtual Machine programs. I am working with [Dr. Christophe Dubach](#) and [Dr. Björn Franke](#) in order to perform memory operation profiling in order to implement automatic threading using the [Graal compiler infrastructure](#).

2011 **Gait Analysis**  
I worked for three months as part of an interdisciplinary collaboration between the [School of Computing and Mathematics](#), the [Institute for Science and Technology in Medicine](#) and the School of Health and Rehabilitation. The project was funded by EPSRC and investigated low-cost approaches to gait analysis.

2011 – 2012 **Medical Image Analysis**  
Supervised by [Dr KP Lam](#), my undergraduate dissertation investigated the use of fractal image analysis techniques within the domain of medical image analysis. A collaboration with the University Hospital of North Staffordshire, it is forming part of several upcoming publications.

## Teaching

I was an undergraduate teaching assistant for two years at Keele:

- *Virtual Worlds*  
3D modelling for level two Computer Science, Creative Computing and Smart Systems students, also available as an elective.
- *Handling Data*  
Introductory databases module for Foundation Year students.
- *System Lifecycles and Design*  
Level two software architecture and engineering module; my coursework now forms part of the standard teaching materials.
- *Multimedia and the Web*  
Introductory web technologies module for Foundation Year students

## Skills

### Programming Languages

Proficient or expert: Java, C, C++, C#, MATLAB, PHP, JavaScript and Python

Beginner or intermediate: Ruby, Haskell, Common Lisp, Objective-C

### Frameworks and Libraries

Image Processing, Computer Vision, Neural Network and Parallel Computing toolboxes (MATLAB); AWT, Swing, RMI, Processing (Java); .NET 4.0, WPF, Kinect SDK (C#), CodeIgniter, Kohana, Fuel, Lithium, Joomla (PHP); OpenMP (C); OpenNI, OGRE, Open Dynamics Engine (C++); MooTools, jQuery (JavaScript); Ruby on Rails, Cucumber, Capybara (Ruby); Cocoa (Objective-C)

### Miscellaneous

LaTeX and XeLaTeX, LibreOffice, Microsoft Office, Adobe Photoshop, Eclipse, NetBeans etc. Excellent working and theoretical knowledge of (Mac) OS X 10.4+, Windows XP & later and Linux, especially Red Hat-based distributions.

## Honours

2012	Graduated joint top of class from Keele
2012	European Science, Engineering and Technology IT Student of the Year (Nomination)
2012, 2013	Bathurst Educational Foundation Scholarship

## Talks

Sept 2012    *Low Cost Approaches to Gait Analysis* ([poster](#), [slides](#))  
Research Institute for the Environment, Physical Sciences & Applied Mathematics  
University of Keele

## Miscellaneous

2004 – 2009    Member of the Combined Cadet Force (RAF Section) at Yarm School  
2006 – 2007    Attained European Computer Driving License (average: very high)  
2008            Young Enterprise regional finalist  
2007 – 2008    Microsoft Certified Professional and Desktop Support Technician; City & Guilds Diploma  
                    in IT Support  
2009 – 2011    Secretary, Keele Gliding Society  
2011 – 2012    President, Keele University Computing Society (now [Keele University Computing and In-  
novation](#), website currently unavailable)