

Christopher Edward Atkin-Granville

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Education

- 2012 – present MASTER OF SCIENCE in Computer Science, University of Edinburgh
With distinction. Specialism 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).
- 2009 – 2012 BACHELOR OF SCIENCE in Computer Science, University of Keele
With first-class honours (*summa cum laude*). Modules included *Advanced Programming Practices*, *Computational Intelligence 1* and *2*, *Advanced Databases & Applications* and *Communications & Networks*; additional modules in mathematics, forensic science, Russian language and astrophysics.
- 2002 – 2009 Yarm School, United Kingdom
10x GCSE, 5x GCE (Advanced/Advanced-Subsidiary Level)

Experience

- 2013 – 2014 Software Engineer (intern), [GuideSpark](#) – Menlo Park, California, United States
Through the [Silicon Valley Internship Programme](#). GuideSpark creates and distributes interactive multimedia for corporate education. I am working on their backend systems using Ruby on Rails, Backbone.js as well as creating new functionality for their next-generation platform to be released later this year.
- 2012 Software Engineer, University of Keele – Staffordshire, UK
Interdisciplinary collaboration between School of Computing and Mathematics, School of Health and Rehabilitation and the Research Institute for Science and Technology in Medicine. Developed a C#/.NET 4.0 application using Kinect APIs to support data collection as well as C++ and MATLAB data collection and processing applications.

Research

- 2012 – 2013 **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](#) to build a profiler (using the [Graal compiler infrastructure](#)) for all memory operations in an application. The end goal is to detect - and transparently convert - parallel loops dynamically at runtime.
- 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.

Skills

Programming Languages

Java, Ruby, C, C++, C#, MATLAB, PHP, JavaScript and Python

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 X_{\LaTeX} , 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

- 2013 Awarded distinction for Master of Science degree (10% of class achieved distinction)
- 2013 - 2014 Member of [Silicon Valley Internship Programme](#), Class of 2014
- 2012, 2013 Bathurst Educational Foundation Scholarship
- 2012 European Science, Engineering and Technology IT Student of the Year (Nomination)
- 2012 Graduated joint top of class from Keele

Talks

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

Miscellaneous

- 2011 – 2012 President, Keele University Computing Society (now Keele University Computing and Innovation)
2009 – 2011 Secretary, Keele Gliding Society
2007 – 2008 Microsoft Certified Professional and Desktop Support Technician; City & Guilds Diploma in IT Support
2008 Young Enterprise regional finalist
2006 – 2007 Attained European Computer Driving License (including unit E)
2004 – 2009 Member of the Combined Cadet Force (RAF Section) at Yarm School

References

Available upon request.

All details correct as of October 11, 2013