

Ryan M Harrison

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Wolfson College
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Education

University of Oxford (Oxford, UK) Expected 2014
DPhil in Biological Physics. Wolfson College.

- Molecular simulation of DNA
 - Spearhead automated testing initiative to reduce scientific and build errors.
 - Simulation software maintenance in **C++**; analysis suite in **Python**.
- Single-molecule fluorescence
 - Image processing and time series analysis with **MATLAB**.

Johns Hopkins University (Baltimore, MD) December 2009
Bachelor of Science in Biomedical Engineering; Minor in Economics.

- Treasurer, JHU Engineers without Borders (2006-2009)
 - Setup financial reporting structure for international engineering development organization with \$100k/yr turnover. Teams operating in 3 countries.
- Cultural Liaison, Student Activities Commission (2007-2009)
 - \$500k oversight for 150+ student groups. Directly responsible for 22 cultural.

Danish Institute for Study Abroad (Copenhagen, Denmark) Fall 2009
International Business & Economics Program.

Skills

<u>Preferred:</u>	Python, C++, MATLAB
<u>Toolchains:</u>	Linux (vim), Microsoft (VisualStudio)
<u>Versioning a must:</u>	svn, git
<u>Ask about:</u>	Refactoring and testing scientific code.
Experience in corporate Agile environment.	

Software

NaturalMotion (Oxford, UK) Summer 2013

- Delivered specification and implementation of R&D project for the Morpheme procedural animation engine. Non-technical live-demo to key stakeholders.
- Agile development in **C++** with Microsoft toolchain.

Ginkgo BioWorks (Boston, MA) Jan – May 2010

- Developed **Django** and **Rails** apps for prototyping engineered biological systems.
- Software exceeded milestone payment requirements of industrial partner.

Ion Torrent Systems (Guilford, CT) Summer 2009

- Hardware tester to improve performance of next-gen DNA sequencer prototype.
- Wrote desktop **Pyjamas**/**PyQT** app to track improvements in system performance.

Computational Proteomics Research Asst (Baltimore, MD) 2003 – 2007

- **C++** developer for Rosetta protein structure suite. Analysis tools with **Perl** and **R**.
- Mentored high school student with interest in protein structure prediction.

Training

Facebook London Hackathon	Apr 2013
Saïd Business School Building a Business Course	2012/2013
Mid-Atlantic Venture Association Capital Connection (Volunteer)	May 2012

Honors

NIH Graduate Student Research Award (Travel Award)	2011
National Science Foundation Graduate Research Fellow (3 year, \$120k)	2010
Inductee, National Gallery for America's Young Inventors (\$5k)	2006
5th Place, Intel Science Talent Search (\$25k)	2005

Hobby

bow ties / allotment gardening / technical theater (lighting)