Ryan M Harrison

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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. GPA: 3.26/4.00

- 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.

 ${\bf Danish\ Institute\ for\ Study\ Abroad\ (Copenhagen,\ Denmark)}$

Fall 2009

International Business & Economics Program.

• Cultural immersion through homestay and language training (15–20 hrs/wk).

Skills

Languages: Python, C++, MATLAB

Toolchains: Linux (vim et al.), Microsoft (VisualStudio et al.)

Versioning a must: svn, git

Ask about: 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

- \bullet Hardware tester to improve performance of next-gen DNA sequencer prototype.
- Wrote desktop Pyjamas 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

• Team of 3 developed distributed computing app in 24 hours. Honorable mention.

Saïd Business School Building a Business Course

2012/2013

• Coursework on start-up finance, legal and IP.

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 tie maker / allotment gardener / theater light tech