Ryan M Harrison

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Education

University of Oxford (Oxford, UK) — Expected 2014
DPhil in Computational Biophysics. Wolfson College.
NIH-Oxford Scholar. Collaboration with US National Institutes of Health.

- Molecular simulation of DNA modeling
  - Spearhead **integration testing** to reduce scientific and build errors.
  - Simulation **software maintenance** in `C++`; analysis suite in `Python`.
  - Familiar with molecular dynamics, Monte Carlo and rare event methods.
- Single-molecule fluorescence: molecular biology, optics and data processing
  - 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

- International summer research experience in Japan. 1 patent application.
- Analyzed patient needs to build neck brace for long-term use. 1 patent application.

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

- Cultural immersion through homestay and language training (15 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

NaturalMotion (Oxford, UK) — Summer 2013

- Delivered specification and implementation of procedural animation R&D project.
- **Agile development** in `C++` with Microsoft toolchain.
- Presented core findings via non-technical demos to key stakeholders.

Ginkgo BioWorks (Boston, MA) — Jan – May 2010

- Developed `Django` and `Rails` apps for a DNA assembly pipeline.
- Exceeded software milestone payment requirements worth ∼6 months burn.

Maryland State Legislature (Annapolis, MD) — Jan–May 2009

- Prepared testimony and policy memos for state delegate with ∼100k constituents.
- Coordinated to amend legislation for Health Committee, Insurance Subcommittee.

Extracurricular

Facebook London Hackathon — Apr 2013

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

Demonstrated business interest

- Can read a 10-Q/K. Econometrics, corporate finance and strategy coursework.
- Saïd Business School Building a Business Course — 2012–2013
  - Start-up finance, valuation, legal and IP coursework.
- Venture Capital and Biotech Conference Volunteer — May/Sept 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 tie maker • Allotment gardener • Theater light tech