

# Ryan M Harrison

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Education	University of Oxford (Oxford, UK) <b>DPhil in Computational Biophysics.</b> Wolfson College. <ul style="list-style-type: none"><li>• Molecular simulation of DNA modeling<ul style="list-style-type: none"><li>– Spearhead <b>integration testing</b> to reduce scientific and build errors.</li><li>– Simulation <b>software maintenance</b> in <b>C++</b>; analysis suite in <b>Python</b>.</li><li>– Familiar with molecular dynamics, monte carlo and rare event methods.</li></ul></li><li>• Single-molecule fluorescence: molecular biology, optics and data processing<ul style="list-style-type: none"><li>– Image processing and time series analysis with <b>MATLAB</b>.</li></ul></li></ul> Johns Hopkins University (Baltimore, MD) Bachelor of Science in Biomedical Engineering; Minor in Economics. GPA: 3.26/4.00 <ul style="list-style-type: none"><li>• International summer research experience in Japan. 2 patent applications.</li></ul> Danish Institute for Study Abroad (Copenhagen, Denmark) International Business Program. <ul style="list-style-type: none"><li>• Cultural immersion through homestay and language training (15 hrs/wk).</li></ul>	Expected 2014
Skills	<u>Languages:</u> <b>Python, C++, MATLAB</b> <u>Toolchains:</u> Linux ( <i>vim et al.</i> ), Microsoft ( <i>VisualStudio et al.</i> ) <u>Versioning a must:</u> <b>svn, git</b> <u>Ask about:</u> Refactoring and testing scientific code. Experience in corporate Agile environment.	
Experience	NaturalMotion (Oxford, UK) <ul style="list-style-type: none"><li>• Delivered specification and implementation of R&amp;D project for the Morpheme procedural animation engine. Non-technical live-demo to key stakeholders.</li><li>• <b>Agile development</b> in <b>C++</b> with Microsoft toolchain.</li></ul> Ginkgo BioWorks (Boston, MA) <ul style="list-style-type: none"><li>• Developed <b>Django</b> and <b>Rails</b> apps for prototyping engineered biological systems.</li><li>• <b>Exceeded software milestones</b> for payments from industrial partner.</li></ul> Proteomics Research Developer (Baltimore, MD) <ul style="list-style-type: none"><li>• <b>C++</b> developer for Rosetta protein structure suite. Analysis tools with <b>Perl</b> and <b>R</b>.</li><li>• <b>Mentored</b> high school student with interest in protein structure prediction.</li></ul>	Summer 2013  Jan – May 2010  2003 – 2007
Extracurricular	Facebook London Hackathon <ul style="list-style-type: none"><li>• Team of 3 developed distributed computing app in 24 hours. Honorable mention.</li></ul> Saïd Business School Building a Business Course <ul style="list-style-type: none"><li>• Start-up finance, valuation, legal and IP coursework.</li></ul>	Apr 2013  2012/2013
Honors	NIH Graduate Student Research Award (Travel Award) National Science Foundation Graduate Research Fellow (3 year, \$120k) Inductee, National Gallery for America's Young Inventors (\$5k) 5th Place, Intel Science Talent Search (\$25k)	2011 2010 2006 2005
Hobby	bow tie maker / allotment gardener / theater light tech	