

Ryan M Harrison

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Education	University of Oxford (Oxford, UK) DPhil in Computational Biophysics. Wolfson College. <ul style="list-style-type: none">• Molecular simulation of DNA modeling<ul style="list-style-type: none">– 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<ul style="list-style-type: none">– Image processing and time series analysis with MATLAB. 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">• International summer research experience in Japan. 2 patent applications. Danish Institute for Study Abroad (Copenhagen, Denmark) International Business Program. <ul style="list-style-type: none">• Cultural immersion through homestay and language training (15 hrs/wk).	Expected 2014
Skills	<u>Languages:</u> Python, C++, MATLAB <u>Toolchains:</u> Linux (<i>vim et al.</i>), Microsoft (<i>VisualStudio et al.</i>) <u>Versioning a must:</u> svn, git <u>Ask about:</u> Refactoring and testing scientific code. Experience in corporate Agile environment.	
Experience	NaturalMotion (Oxford, UK) <ul style="list-style-type: none">• 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) <ul style="list-style-type: none">• Developed Django and Rails apps for prototyping engineered biological systems.• Exceeded software milestones for payments from industrial partner. Proteomics Research Developer (Baltimore, MD) <ul style="list-style-type: none">• C++ developer for Rosetta protein structure suite. Analysis tools with Perl and R.• Mentored high school student with interest in protein structure prediction.	Summer 2013 Jan – May 2010 2003 – 2007
Extracurricular	Facebook London Hackathon <ul style="list-style-type: none">• Team of 3 developed distributed computing app in 24 hours. Honorable mention. Saïd Business School Building a Business Course <ul style="list-style-type: none">• Start-up finance, valuation, legal and IP coursework.	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	