

# Ryan M Harrison

2115 Cloville Avenue  
Baltimore, MD 21214  
+1 443 257 5953

ryan.m.harrison@gmail.com  
linkedin.com/in/rmharri

Wolfson College  
Oxford OX2 6UD  
+44 (0) 7523 229446

Education	University of Oxford (Oxford, UK) <b>DPhil in Computational Biophysics.</b> Wolfson College. NIH-Oxford Scholar. Collaboration with US National Institutes of Health. <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. 1 patent application.</li><li>• Analyzed patient needs to build neck brace for long-term use. 1 patent application.</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 Agile development environment.	
Experience	NaturalMotion (Oxford, UK) <ul style="list-style-type: none"><li>• Delivered specification and implementation of procedural animation R&amp;D project.</li><li>• Presented core findings via non-technical demos to key stakeholders.</li></ul> Ginkgo BioWorks (Boston, MA) <ul style="list-style-type: none"><li>• Developed <b>Django</b> and <b>Rails</b> apps for a DNA assembly pipeline.</li><li>• Exceeded software milestone payment requirements worth ~6 months burn.</li></ul> Maryland State Legislature (Annapolis, MD) <ul style="list-style-type: none"><li>• Prepared testimony and policy memos for state delegate with ~100k constituents.</li><li>• Coordinated to amend legislation for Health Committee, Insurance Subcommittee.</li></ul>	Summer 2013  Jan – May 2010  Jan–May 2009
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> <b>Demonstrated business interest</b> <ul style="list-style-type: none"><li>• Can read a 10-Q/K. Econometrics, corporate finance and strategy coursework.</li><li>• Saïd Business School Building a Business Course<ul style="list-style-type: none"><li>– Start-up finance, valuation, legal and IP coursework.</li></ul></li><li>• Venture Capital and Biotech Conference Volunteer</li></ul>	Apr 2013  2012–2013 May/Sept 2012
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	