

Ryan M Harrison

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

ryan.m.harrison@gmail.com

Wolfson College
Linton Road, Oxford OX2 6UD
+44 07523 229446

Education	University of Oxford, Wolfson College (Oxford, UK) DPhil Student, Biological Physics (NSF Fellow) <ul style="list-style-type: none">Coarse-grained molecular simulation of DNA in C/C++, including various rare event methods. Analysis suite written in Python. Testing taskmaster / wrote integration test framework.Single-molecule studies of the RecQ DNA helicase. Signal processing and noise analysis in MATLAB. Extensive wetlab: bacterial culture, protein purification, site-specific labeling, etc.	Expected 2014
	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">Engineers without Borders, Treasurer. \$100k/year turnover. Guatemala potable water team.Student Activities Commission, Cultural Liaison. Ten person funding board, ~\$250k oversight.	December 2009
	Danish Institute for Study Abroad (Copenhagen, Denmark) International Business & Economics Program	Fall 2009
Tech	NaturalMotion (Oxford, UK) <ul style="list-style-type: none">R&D for the Morpheme procedural animation and AI engine. Implementation in C/C++.	Summer 2013
	Ginkgo BioWorks (Boston, MA) <ul style="list-style-type: none">Developed Django and Rails apps for the rapid prototyping of engineered biological systems.Collaborated directly with end-users for the agile development of software specifications.	Jan – May 2010
	Ion Torrent Systems (Guilford, CT) <ul style="list-style-type: none">Conducted system optimization and benchmarking on a next generation sequencer.Wrote Python app to compare DNA sequencing quality between experimental conditions.	Summer 2009
	Computational Proteomics Research Asst (Baltimore, MD) <ul style="list-style-type: none">Used C/C++ to implement a computational model of pH-sensitive regions within proteins.Mentored high school student with interest in protein structure prediction.	2003 – 2007
Policy	Maryland General Assembly (Annapolis, MD) <ul style="list-style-type: none">Prepared testimony, policy memos, and written/oral statements for a Baltimore City Delegate.Coordinated with stakeholders to amend legislation brought before the House Health and Government operations committee, insurance and minority health disparities subcommittees.	Spring 2009
Activities	Facebook London Hackathon	27-28 Apr 2013
	Saïd Business School Building a Business Course	2012/2013
	CECAM Molecular Simulation Course	7-18 Jan 2013
	Mid-Atlantic Biotech Conference (Volunteer)	27-28 Sept 2012
	NIH Science Policy Group	Sept 2011 – June 2012
	Mid-Atlantic Venture Association Capital Connection (Volunteer)	23-24 May 2012
	Marine Biological Lab Optical Microscopy Course	11-21 Oct 2011
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
Hobbies	Bow ties / sewing, allotment gardening, light design and technical theater.	