

Education	Massachusetts Institute of Technology (Class of '14, M.Eng. '16) <i>M.Eng., Computer Science and Molecular Biology</i> <i>S.B., Computer Science and Molecular Biology and Math, Minor in Writing</i>	<i>August 2010 – May 2016</i>
	Pennsylvania State University, Schreyer Honors College <i>Early Enrollment Student, Computer Science</i>	<i>August 2009 – May 2010</i>
	I was enrolled as an honors student at Penn State University in lieu of my senior year of high school.	
	State College Area High School	<i>September 2006 – June 2010</i>
Research Experience	Sabeti Lab <i>Broad Institute of MIT and Harvard</i>	<i>December 2014 – present</i>
	I am examining co-detections in Ebola virus disease patients during the 2014-2016 outbreak. I am working under the guidance of Dr. Pardis C. Sabeti, PI, and Drs. Daniel Park and Kristian Andersen.	
	Berwick Lab <i>MIT</i>	<i>June 2013 – September 2013</i>
	I used computational methods to investigate genetic contributions to language. I worked under the guidance of Dr. Robert C. Berwick, PI.	
	Page Lab <i>Whitehead Institute (MIT)</i>	<i>June 2011 – March 2013</i>
	I used both computational and wet lab methods to help sequence sex chromosomes. I performed a genome-wide association study of sex determination using SNPchip data. I worked under the guidance of Dr. David C. Page, PI, and Dr. Daniel Winston Bellott.	
	Makova Lab <i>Penn State University</i>	<i>September 2009 – August 2010</i>
	I used computational methods to investigate the evolution of pseudogenes on the Y chromosome. I worked under the guidance of Dr. Kateryna D. Makova, PI, and Dr. Melissa Wilson-Sayers.	
Other Work	6.005 (Elements of Software Construction)	<i>August 2014 – May 2015</i>
	I TAed my favorite undergraduate course, taught by Dr. Robert C. Miller and Dr. Max Goldman.	
	MIT Admissions Blogs	<i>September 2011 – May 2016</i>
	My blog posts about student life and mathematics got 2,000 views on average, some over 85,000. I also co-managed the blogs, editing content and recruiting, hiring, and motivating student bloggers.	
Awards & Honors	Robert A. Boit Writing Prize, Short Story Category, second place	<i>2016</i>
	Robert A. Boit Writing Prize, Essay Category, first place	<i>2013</i>
	S. Klein Prize in Science Writing, second place	<i>2013</i>
	MIT Summer Undergraduate Research Direct Funding Grant	<i>2011, 2012, 2013</i>
	Whitehead Institute (MIT) annual retreat poster contest winner	<i>2011</i>
	Penn State University Summer Discovery Grant	<i>2010</i>
	Penn State University President's Freshman Award (awarded for 4.0/4.0 GPA)	<i>2010</i>
	Penn State University Undergraduate Research Fund Award	<i>2009</i>
	Penn State University Schreyer Honors College Scholarship	<i>2009</i>
	Penn State University Morrow Endowed Scholarship in the College of Engineering	<i>2009</i>
	Siemens Award for Advanced Placement (Pennsylvania's winner)	<i>2009</i>
	Gannon University Programming Competition, first place	<i>2009</i>
	National Merit Finalist	<i>2009</i>
National AP Scholar, AP Scholar with Honor, AP Scholar	<i>2008, 2009, 2010</i>	
Science Olympiad state and regional level medals	<i>2007, 2008, 2009</i>	
Other	Computational Skills: I have programmed on and off in Perl (5 years), Python (3 years), Java (10 years), C++, C, R, MATLAB, and Julia. I am most comfortable with Perl and Java. I have taken courses in software engineering, algorithms, artificial intelligence, and computational biology (including machine learning).	
	Bioinformatics: I have experience with generalized linear modeling, metagenomic tools MEGAN and Kraken, Unix, NCBI, the UCSC genome browser, BLAST, HyPhy, PHYLIP, PLINK, the 1000 Genomes Project, GWA studies, DNA sequencing, comparative genomics, and working with SNPchip and sequence data. I am excited to grow as a computational biologist and I pick up new skills quickly. Thank you so much for your time and consideration.	