

<b>Objective</b>	Summer internship in research, data analytics, web development, or programming. Research Interests: computational biology; genomics; immunology; energy; materials science; pharmacology; precise medicine	
<b>Education</b>	<b>Princeton University</b>	2015 - 2019 B.S.E in Computer Science (tentative) with Certificate in Quantitative and Computational Biology, Materials Science or Global Health and Health Policy
	<b>Montgomery High School (Skillman, NJ)</b>	2011 - 2015 GPA: 98.57, SAT: 2390 Graduated with High Honors
<b>Work Experience</b>	<b>5eTEK</b>	Intern Skillman, NJ 2015 – Present Developed educational circuitry electronics platform and learning modules, as well as develop a website for showcasing community project submissions. Rewrote company self-biography, competition grant applications and revamped social media presence.
	<b>Yu's Elite Education</b>	Instructor Bridgewater, NJ Spring 2015 Taught a fast-paced introductory Science Olympiad class for rising middle schoolers that gave exposure to 8 competition events. Developed all learning materials and lesson plans myself.
<b>Publications</b>	<b>Heart-Specific Rpd3 Downregulation Enhances Cardiac Function And Stress Resistance</b>	May 2015 accepted by <i>Aging</i> (9/2015); pending publication
	<b>Topological defects as relics of emergent continuous symmetry and Higgs condensation of disorder in ferroelectrics</b>	Nov/Dec. 2014 (online/print) <i>Nature Physics</i>
<b>Research</b>	<b>Rutgers New Jersey Medical School - Partners in Science Fellow</b>	Paid Intern Newark, NJ Summer 2014 Researched genetic mechanisms of aging in <i>Drosophila</i> fruit flies, specifically the effects of the RasGTP-Raf-MEK-ERK signaling pathway on organismal and organ senescence. Conducted lifespan and stress (starvation, oxidative and heat) assays on flies with transgenes expressing varied levels of Rpd3 protein in the heart tissue. I also conducted heartbeat measurements on flies throughout various stages in their lifespan to analyze heart-function decline with age. Coauthor of paper accepted by <i>Aging Cell</i> .
	<b>New Jersey Governor's School of Engineering and Technology</b>	July 2014 One of 80 students across the state accepted into the Governor's School of Engineering Program (four weeks in summer of 2014). My four person research-group designed and built a shoebox-sized car that runs autonomously using chemical reactions. Seminars taken: Modern Physics, Intro to Biomechanics, Math Behind the Machine, Pharmaceutical Engineering, NXT Robots
	<b>Rutgers University Department of Physics - Partners in Science Fellow</b>	Paid Intern Piscataway, NJ Summer 2013 Explored symmetry-breaking phase transitions in multiferroic materials (i.e. rare-earth hexagonal manganites). Polished and depth-profiled these materials to image their topological defect distribution. This work led to a paper published in <i>Nature Physics</i> . As a side project I also conducted high-temperature resistivity measurements on novel rare-earth copper titanates using a two-probe method to characterize their ferroelectric transition temperature.

Qualifications	<i>Programming Languages:</i> Java, Python, Javascript, HTML, CSS, (basic) iOS and Android dev. <i>Lab Skills:</i> Crystal surface depth-profiling, High-Temperature Resistivity measurements, Gel Electrophoresis, Drosophila maintenance	
Activities	<b>Science Olympiad (Team Captain + Tournament Director)</b> 2009-2015 Won 31 career-total tournament medals in various Regional and State level competitions, including 4 State gold medals (in Towers, Elastic Launched Gliders[2x] and Cell Biology) as well as 2 State silver medals (in Water Quality both times). Under my leadership, the team expanded from 20 to over 70 active members. I also took the initiative to organize my high schools first SciOly invitational, the Cougar Invitational, which was also New Jerseys first). I was the tournament director and volunteer coordinator.	
	<b>Montgomery Against Cancer (Cofounder)</b> 2013-2015 I cofounded a group that conducts informational campaigns to educate high school students about causes and treatments for cancer, and fundraises money for cancer research. In two years we raised over 4000 dollars.	
	<b>Montgomery High School STEM Board (Cofounder)</b> 2014-2015 To get more students involved and interested in STEM, I and other students from Science Olympiad created a body that exclusively conducts STEM outreach. Among other initiatives, weve hosted guest speaker events inviting local university professors to speak about their research, and created a website with consolidated research and competition opportunities for Montgomery students.	
	<b>Chinese Tiger Newspaper (Editor-in-chief)</b> 2011-2015 For the local Saturday Chinese School, I run advertisements to solicit student articles, organize fundraisers and create each weeks column for publication. We have over 120 publications in Qiao Bao, or China Press USA-NJ.	
Abbreviated Honors and Awards	<b>Intel STS Competition Semifinalist</b> January 2015 Intel Science Talent Search is the nations most prestigious high school research competition. Submitted self-written and edited 18 page manuscript of my work from summer 2014.	
	<b>USA Biology Olympiad Semifinalist</b> March 2015 USABO is the USA’s national biology competition, a three stage qualification process to represent the USA at the International Biology Olympiad. Semifinal qualifiers (approximately the top 500) are eligible to take the second round USABO exam.	
	<b>National Merit Scholarship Winner</b> Collegeboard - May 2015 Recognized for scoring in the top 1 percent of nearly 1.5 million students nationwide on the 2013 NMSC PSAT Exam (237 out of a perfect score of 240). Became a semifinalist, finalist, and eventually winner (top 0.5 percent of all students nationwide) in the National Merit Scholarship competition.	
	<b>NJ Governor’s School of Engineering and Technology Scholar</b> 2014 One of 80 students statewide accepted into program.	
	<b>New Jersey All-State Band Member</b> 2014-2015 Auditioned as high as 3rd chair clarinet overall in the Symphonic Band	
	<b>AXA Achievement Community Scholarship</b> May 2015 Recognized by AXA for my work with Monty Against Cancer	
	<b>National AP Scholar</b> July 2014 Scored a perfect score of 5 in eight AP exams	