

Education	Massachusetts Institute of Technology (MIT) <i>Candidate for Bachelor of Science degree in Biological Engineering</i> Relevant Coursework: Differential Equations; Organic Chemistry I; Thermodynamics of Biological Systems; Genetics; Molecular, Cellular, and Tissue Biomechanics; General Biochemistry Fall '12 : Cell Biology; Analysis of Biomolecular and Cellular Systems; Corporate Financial Accounting; Finance Theory I; Fundamentals of Biological Engineering Urbana High School	Cambridge, MA June 2014 Ijamsville, MD May 2010
Research Experience	National Cancer Institute at Frederick, Laboratory of Experimental Immunology, Synthetic Biologics and Drug Discovery Facility <i>Researcher</i> <ul style="list-style-type: none"> Developed peptides, using rational drug design, as the first specific antagonists of cytokine signaling, specifically for interferon gamma (IFNγ) and interleukin 10 (IL10) Experienced with using both microwave and conventional peptide synthesizers Familiar with using High Pressure Liquid Chromatography (HPLC), mass spectrometry (LC/MS), and circular dichroism (CD) spectroscopy to purify and characterize the mass and secondary structure of peptides Used Microscale Thermophoresis (MST) for use of studying protein association Cultured different cell lines for use in a variety of cell based assays (mammalian) Performed several assays, including MTT cell proliferation assay, Western Blots, Fluorescence Spectroscopy, and FACS analysis to assess peptide efficacy 	Frederick, MD June 2009 - August 2011
Work Experience	CORE Education and Consulting Solutions, Inc <i>Item Developer</i> <ul style="list-style-type: none"> Developed questions to meet national standards for use in standardized tests for K-12 students Elementary writing expert, and used when emergency writing is needed MATCH Charter School <i>Data Entry Assistant</i> <ul style="list-style-type: none"> Fulfilled weekly deadlines in locating professor contact information for MATCH Charter School 	July 2012- Present Boston, MA January - May 2012
Leadership	MIT Associate Advisor, Biological Engineering Department Dorm Government <i>Floor Representative</i> <ul style="list-style-type: none"> Managed the floor budget (\$1000) for the year Organized study breaks for the floor Coordinated with the Graduate Resident Tutors in planning floor events <i>Legislature Member</i> <ul style="list-style-type: none"> Represented the floor in the dorm government and voted on issues pertaining to the dorm, such as dorm budget, dorm rules, and Committee appointments Acted as an Associate Justice in the event of a dorm dispute 	August 2012 – Present August 2011 - September 2012
Skills	Programming Languages: Python (basic) Databases: PubMed, ExPASy Protein Modeling Software: Molsoft, ChemBioDraw	
Activities	MIT Varsity Swimming & Diving Team <i>NCAA Division III National Qualifier</i>	September 2010 - Present