

JAMES WOODWARD WEIS



EDUCATION

Massachusetts Institute of Technology Ph.D., Computational and Systems Biology - Department of Defense NDSEG Fellow	Cambridge, Massachusetts
Brown University Sc.B., Computational Biology, Computer Science - Highest Latin and Departmental Honors - Honors Thesis: "Computational Genomics and Biofuels: Modeling and Clustering of RNA-Seq Data" - Computer Science GPA: 4.0/4.0; Overall GPA: 3.9/4.0; SAT: 2330/2400	Providence, Rhode Island 2012

RESEARCH EXPERIENCE

Citigroup Quantitative Trading, Research, and Analysis <i>Quantitative Research and Trading Analyst</i> - Published original research using probabilistic and macroeconomic models to analyze derivative markets - First analyst in group history to first-author a distributed research article	New York, New York Jun 2012 – Aug 2013
Amyris Biotechnologies <i>Scientific Computing Intern</i> - Built a specification language and automated pipeline for robotic engineering of synthetic biology circuits - Developed bioinformatics software to extract genomic information and validated dry-lab work in wet-lab	Emeryville, California May 2011 – Aug 2011
International Genetically Engineered Machine Competition (iGEM) <i>Team Member</i> - Designed and deterministically model a light-controlled, quad-stable genetic switch in <i>E. coli</i> - Engineered a modular mechanism for protein delivery using HIV Tat-PTD	Brown / MIT Jan 2009 – May 2012
Agua Sustentable <i>Sustainable Engineering</i> - Engineered a novel groundwater level sensor, producible for 4% the cost of previously available models	La Paz, Bolivia May 2009 – Aug 2009
Charles Darwin Foundation <i>Marine Research</i> - Implemented a buoy-based ultrasonic system to track underwater lobster movements via trilateration	Galapagos Islands, Ecuador Sep 2007 – Dec 2007

TEACHING AND LEADERSHIP EXPERIENCE

Departmental Undergraduate Group in Computational Biology <i>Founder, President</i>	Brown University Oct 2010 – May 2012
Supporting Kids in Peru (SKIP) <i>Math and English Lecturer, Web Designer</i>	Trujillo, Peru Mar 2008 – Jun 2008
The English Centre Suppliers <i>Sailing Instructor</i>	Malaga, Spain July 2008 – Nov 2008

AWARDS AND HONORS

- National Defense Science and Engineering Graduate Fellowship	2013
- Stanford Computer Science Graduate Fellowship <i>[Declined]</i>	2013
- Honors in Computational Biology, Brown University	2012
- Author, <i>Biohacking</i> , Triple Helix Journal of Science and Society	2011
- Recipient, Karen T. Romer Undergraduate Research Award	2010

OTHER INTERESTS

- Languages: Arabic (Basic), Portuguese (Intermediate), Spanish (Advanced), English (Native)
- Interests: SCUBA Diving (10 years PADI certified), Motorcycling (recently crossed the Peruvian Andes), Coral Reef Aquariums, Salsa Dancing, Functional Programming, Thai Boxing, Moral Philosophy