Curriculum Vitae — Olivia Jeffers
Updated: December 10, 2017

Objective

Seeking to apply computational intelligence to understanding mind, matter, and body for advancing human health and wellness.

Education

University of Virginia, Charlottesville, VA — 9/2009 - 5/2013
Bachelor of Science in Civil Engineering, Business Minor
With High Distinction
3.61/4.0

Tau Beta Pi, Engineering Honor Society
Dean's List — 9/2009 - 9/2010, 5/2012

Beijing Language and Culture University, Beijing, China — 9/2008 - 7/2009
Certificate of Intermediate Chinese

Thomas Jefferson High School for Science and Technology, Alexandria, VA — 9/2004 - 7/2008
Neuroscience Research Lab — 9/2007 - 7/2008
4.07/4.0 GPA (incl. AP credits)

Relevant Course Work

Neuroscience
DNA Science Lab Course, AP Chemistry, AP Physics, Neuroscience Research Lab
Introduction to Cognition, Introduction to Materials Science Engineering

Business, Sustainability, and Society
AP U.S. Government, AP History, AP Microeconomics
Environmental Economics, Economics of China
Introduction to Financial Accounting, Commercial Law, Business of New Product Development
Green Cities, Engineering Ethics and Professional Responsibility
Water for the World, Global Development: Useful Knowledge in Community

Policy and International Study
Gap Year, 2008-09: Studied Mandarin (Chinese) in Beijing, China
Summer Term, 2011: Science/Policy Internship with Department of Veterans Affairs in Washington, D.C.
Summer Term, 2011: Science/Policy Internship with U.S .Consulate in Shanghai, China
January Term, 2012: UVA in Guatemala, Study of Public Health
Summer Research, 2013: Civil Engineering Research in Cusco, Peru

Research

"Using ArcGIS to model modern and historic drainage patterns to restore original drainage at Saqsaywaman in Cusco, Peru" (Jeffers, Lohr, 2013)

"Exploring the role of engineering in public health: engineering solutions for noncommunicable disease prevention" (Jeffers, 2013)

"Meeting Federal Petroleum Reduction Mandates Using Alternative Fuel Vehicles: A Look at Vehicle Allocation and Data Reporting Methods" (Jeffers, 2011)

"The Effect of Melatonin on the Rate of Amyloid-beta Aggregation in the Caenorhabditis elegans Strain CL4176" (Jeffers, Ramamurthi, 2008)

Publications

"The Many Faces of a Neuron: Cell, Wire, and Computer" in 'Humanizing Tech' (2017)
"The Biology of Machines, the Chemistry of Transistors" in 'Humanizing Tech' (2017)
"Transistor, Meet Neuron: The Science Behind Neural Lace" in 'Humanizing Tech' (2017)

Academic Experience

Guest Lecturer, Designing Consciousness, The New School, Parsons;
New York, NY — 3/2015
Taught one class on different types of consciousness in the Eastern and Western traditions, and introduced students to a body scan meditation.

"Photographing Physics: The Art of the Scientific Image", University of Virginia;
Charlottesville, VA — 11/2012
As part of an independent study course, created a one-day workshop to give middle school girls hands-on experience with basic principles of science and engineering through visual and tactile experiments. Designed a way for students to see and photograph the dual wave-particle nature of light using green lasers, mirrors, lenses, and a fog machine (workshop coverage).

Grader & Teaching Assistant, Fluid Mechanics CE3210, University of Virginia;
Charlottesville, VA — 8/2012 - 3/2013
Assisted students with homework assignments and class materials during office hours. Graded 70 assignments weekly.

Research Assistant, U.Va.-IBM Collaboration; Charlottesville, VA — 6/2010 - 8/2010
Worked on a team to design and develop research oriented software for presentation to IBM using Java and Eclipse for software development.

Work Experience

Researcher & Publisher, Compassionate Technologies; Boston, MA — 2/2016 - Present

Started a small research and publishing company, telling the stories of the technologies as they grow from the basic sciences, to engineering, are applied through business, and then experienced throughout the world. Went to research symposiums and interviewed scientists about their latest research, and venture capitalists about their portfolio strategies. Edited and published the work of graduate students in genetics and string theory. Experimented with different ways of monetizing publishing without using advertising. Created audio-articles, online magazines, online and print newsletters.

Event Producer, Freelance; Boston, MA — 4/2016 - 2/2017

Selected invitees and organized an investor dinner on behalf of Xconomy Insight to help the Industrial Development Agency of Ireland showcase their funding program for information technology companies. Produced the OpenMindOpenArt Gallery with the MindHandHeart Initiative at MIT.

Product Marketing Manager, Getmii; Bangkok, Thailand & Boston, MA — 7/2015 - 1/2016

Managed the engineering-marketing-product pipeline for a location-matching mobile app service. Created and conducted user research methodologies.

Designer & Developer, Freelance; Bangkok, Thailand — 1/2015 - 7/2015

Designed a crowd-sourced app showing nearby coffee shops and their measured WiFi speeds, since good WiFi was very difficult to come by in Thailand. Worked on a user interface for Frobot, a frozen yogurt vending machine. Front-end development for Ringio, a telephone customer management relationship portal. Developed the website for MartianWearables, a research grade electroencephalogram (EEG) manufacturing company.

Frontend Developer & Designer, TribeSay; Charlottesville, VA — 12/2012 - 1/2015

Taught myself software engineering, was the front-end engineer and worked closely with the back-end engineer on a small, three-person team. Created a crowd-sourced news and events web application.

Ad Delivery Management Intern, Videology; Baltimore, MD — 6/2012 - 8/2012

Created ad delivery reports for clients, as part of the targeted, video advertising platform. Interfaced between software engineering and sales representatives to put together delivery plans.

Political/Economic Unit Intern, U.S. State Department; Shanghai, China — 8/2011 - 8/2011

Assisted in the delegation of the U.S. Environmental Protection Agency Assistant Administrator on talks with the Shanghai Advanced Research Institute and American Chamber of Commerce in Advance of Green Chemistry. Accompanied U.S. Department of Energy's National Nuclear Security Administration (NNSA) review of Shanghai Megaports project. Coordinated meetings with Chinese officials regarding electric vehicle technology and policy.

Intern of Sustainable Asset Management, U.S. Department of Veterans Affairs (VA); Washington, D.C. — 5/2011 - 7/2011

Developed an electric vehicle policy for fleet vehicles to best meet federal mandates for petroleum and greenhouse gas emission reduction. Assisted in preliminary discussions for achieving net zero hospital buildings by 2030.

Community Service

Blood Donation, Nepal Red Cross; Kathmandu, Nepal — 9/2014
Designed a blood donation event using the Getmii location-matching app. Met with Red Cross leadership in Bangkok and coordinated with local Red Cross doctors on the ground in Kathmandu.

Activities

Vipassana Meditation (S.N. Goenka)
10-Day Course; Java, Indonesia — 12/2015
8-Day Service; Shelburne, MA — 07/2017
10-Day Course; Shelburne, MA — 08/2017
Two Hours Meditation Daily; McLean, VA — 08/2017 - Present

Pet Sitter, TrustedHousesitters; Boston, MA — 8/2016 - Present
Take care of people's pets and homes while they are on vacation in exchange for free housing in Boston and Canada.

Sailing, Community Boating; Charles River — 05/2017 - Present
Took courses in sailing and received my Green and Yellow Ratings for Mercury boats.

Skills

Computer: HTML, CSS, Javascript, jQuery, PHP, MongoDB (NoSQL), MeteorJS, Python, SQL
Lab: Micropipetting, PCR, Western Blot
Language: Mandarin Chinese (Intermediate)