

"Our imagination is stretched to the utmost, not, as in fiction, to imagine things which are not really there, but just to comprehend those things which are there. – Feynman"

Education

- 2013–2018 **Ms/PhD**, *University of California, Santa Barbara*, GPA – 3.8.
Department: Electrical and Computer Engineering
Major: Computer Engineering (Computer Architecture)
- 2010–2013 **Bachelor of Science**, *State University Of New York, Stony Brook University*, GPA – 3.3.
Major: Physics

Senior Writing Report

- Title *Moseleys Law Scientific America Edition*
- Supervisors Professor Harold Metcalf
- Description An illustrated explanation of a historic atomic spectroscopy experiment recreated in Stony Brook's senior lab. Report intended for reading by a high school student.

Experience

Academic

- 2013–Present **Electrical and Computer Engineering Teaching Assistant**, UNIVERSITY OF CALIFORNIA, Santa Barbara.
Responsible for recitation or Lab sophomore/junior computer engineering courses.
Teaching Course History:
- ECE 132 - Introduction to Semiconductors (Fall 2013)
 - ECE 152A - Digital Logic Design (Winter 2014)
 - ECE 152A - Digital Logic Design (Spring 2014)
 - ECE 153A/253A - Hardware/Software Interface (Fall 2014)
 - ECE 153B - Sensors and Peripherals (Winter 2015)
- 2010–2013 **Student Computational Physics Research Assistant**, STONY BROOK UNIVERSITY, Department of Physics – Nanoelectronics group.
Responsible for simulation of hardware based artificial neural network.
Detailed achievements:
- Programmed numerical simulation of differential equation using **C**
 - Created visualization movie of results using **Processing**
 - Created data navigation tool using **Processing**
 - Developed automation scripts in **Python**
- 2010–2011 **Student Optics Researcher**, STONY BROOK UNIVERSITY, Department of Physics – Laser Teaching Center.
Responsible for organization of optical equipment and assisting high school students.

Finance

- 2007–2010 **Data Analyst**, *Oppenheimer & Co* , New York, Due Diligence Group.
Responsible for purity of quarterly data gathered from 60 investment managers

Fashion

- 2003–2005 **Production Management**, *An Ren Collection* , New York.
A designer, manufacturer and importer of custom winter coats
- Managed inventory and production orders with factory in China
 - Supervised retail boutique inventory, employee schedules and payroll

Past Start-Ups

- 2010 – 2011 **Founder**, *Looklet*, New York, Programmer & Designer.
Flash Application
- Designed photo collage application, created wireframes and user interaction guide
 - Developed application using Flash Actionscript 3.0, Features include preset templates, 3rd party images and the ability to resize, drag, crop and upload your own image
- 2009–2010 **Founder**, *Colorific*, New York, Project Lead & Designer.
iPhone Application
- An iPhone game about CMYK color mixing theory and tessellation
- 2007–2008 **Founder**, *Ad Chiclet*, New York, Project Lead & Designer.
- Organized Co-op advertising network consisting of 90+ member shops and small businesses
 - Placed full page color print ads in national magazines
 - Designed a custom PHP/MYSQL website to handle advertisement organization
 - Managed the development of a login-based e-commerce website from start to finish
- 2005–2007 **Founder**, *Beadables / Skyberrys* , Florida, Jewelry Design.
- Traveled to art shows across Florida selling my lampwork glass art.

Awards

- 2011 Recipient – NSF Research Experiences for Undergraduates
2010 Cognizant – Making The Future Scholarship – Electroluminescent Pixie Wings

Computer skills

- Advanced API's (Amazon, Etsy, Twitter, Wolfram Alpha), CSS, C/C++, HTML, JAVA, JAVASCRIPT, L^AT_EX, Microsoft Office, PYTHON
- Intermediate ACTIONSSCRIPT 3.0, Adobe Photoshop, Arduino, FORTRAN, Linux, Mathamatica, MYSQL, OBJECTIVE C, Open MP, Processing, Sketch Up

Communication Skills

- 2012 Poster: Self-Organization in Spiking CrossNets – Presented at URECA
2012 Poster: Creating a Precisely-tunable Single-frequency Laser Source to Excite Whispering-Gallery Modes – Presented at Symposium on Undergraduate Research, Laser Sciences, San Jose, CA
2011 Poster: The quantum eraser: demonstrating the effects of path knowledge on optical interference – Presented at URECA