Elias Berkowitz

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Education

Brown University • Providence, RI — Sept. 2015 - Present

Applied Ordinary Differential Equations
Applied Partial Differential Equations II
Foundations of Electricity and Magnetism
Introduction to Computer Science
Linear Algebra
Multivariable Calculus
Foundations of Mechanics

Oakwood Friends School • Poughkeepsie, NY — Sept. 2014 – June 2015

Introduction to Web Programming
Python: Independent Study
Robotics
Model United Nations

Colégio Objetivo • Campinas, Brazil — July 2013 – June 2014

Rotary Youth Exchange Student
Completed junior year of high school in Brazilian high school

F.D. Roosevelt High School • Hyde Park, NY — Sept. 2011 – June 2013

Work, Research and Teaching Experience

Louisiana State University – REU Program — May 2016 – July 2016

- Mentor: Gabriela González.
- LIGO Scientific Collaboration (Laser Interferometric Gravitational Wave Observatory). Used Python to characterize transient signals at the LIGO Livingston observatory.
- Created and presented a digital poster of my work as part of a tangible visualization project at LSU's 2016 SURF poster fair.

Oakwood Friends School – www.oakwoodfriends.org — June 2015 – Aug. 2015

- Redesigned Website: Implementation of CMS; load speed.
- Built a series of web apps for internal use: see eliasberkowitz.com.

Swearer Center • Providence, RI — Oct. 2015 – May 2016

- Hope High School – Algebra II Tutoring.
- CubeSAT Outreach – Helped develop and teach a physics and engineering curriculum for middle school students.

SAT Tutoring — June 2015 – Aug. 2015

- Tutored several students for the SAT Math section.

Melanie Falick - melaniefalick.com — July 2015 – Aug. 2015

- Designed blog using SquareSpace.

Skills

Programming

Python • DrRacket • OCaml • Mathematica • LaTeX • JavaScript • Google Apps Script • HTML • CSS

Languages

- Portuguese – Fluent
- German – A2.1 Level

Music

- Flute – Classical • Orchestra • Band
- Piano – Classical

Papers

Brown Mathematical Contest in Modeling: Navigating the Streets of Pokémon Po
High School Capstone Project: Magnetic and Inertial Confinement Approaches to Fusion Energy