

EDUCATION

- **Brown University** Sep 2015 - 2019
Bachelors of Science in Applied Mathematics.
 - **Relevant Coursework:** Differential Equations (2), Fluid Mechanics (2), Mathematics of Climate, Computational Physics, Statistics (2), Complex Analysis, Dynamical Systems (2), Physical Oceanography, Atmospheric Dynamics, Solid Earth Geophysics, and Computer Science (3).
 - **Open Rocketry Initiative:** Started the first experimental rocketry club at Brown ([github](#)).
 - **Grants:** Brown Maker Grant. Rhode Island Space Grant.
- **Oakwood Friends School** Sep 2014 - Jun 2015
High School Diploma. Senior year. Coursework in Robotics, Web Programming, Python.
- **Colegio Objetivo** Jul 2013 - Jun 2014
Rotary Youth Exchange student. Completed junior year of high school in Brazilian high school.
- **F. D. Roosevelt High School** Sep 2011 - Jun 2013
Freshman and sophomore years. Coursework in Chemistry; Rotary Club

WORK EXPERIENCE

- **Research Assistant** Jun 2017 - Aug 2017
Fox-Kemper Physical Oceanography Lab, Brown University
 - **Supervisor:** Dr. Baylor Fox-Kemper
 - **Stochastic Differential Equations:** Developed a tool to model systems of nonlinear stochastic differential equations in arbitrary dimensions.
- **Trip Leader and Food Manager** Jan 2017 - Current
Brown Outdoor Leadership Training (BOLT), Brown University
 - **Leader:** Led a 5 day trip with 8 sophomores, transfers, and RUE students in the White Mountains.
 - **Food Manager:** Purchased, organized, and divided food for 18 backpacking trips in the White Mountains.
 - **Leader Training:** Had over 200 hours of training in the Spring 2017 semester preparing for the trip, including Wilderness First Responder training.
- **Research Experiences for Undergraduates Student Intern** Jun 2016 - Aug 2016
LIGO Scientific Collaboration, Louisiana State University
 - **Mentor:** Dr. Gabriela Gonzalez
 - **Research:** Characterized transient noise signals in the LIGO detectors.
 - **Poster:** Created and presented a digital poster of my research, working with a tangible visualization lab.
- **Information Technology Intern** Jun 2015 - Sep 2015
Oakwood Friends School
 - **Web Development:** Redesigned the school website, implementing a CMS and improving load speed.
 - **Web Apps:** Developed a series of web apps for internal use; see [eliasberkowitz.com](#).

TEACHING EXPERIENCE

- **Teaching Assistant** Sep 2017 - Dec 2017
Introductory Computer Science, Brown University
 - **Undergraduate TA:** TA for the main introductory Computer Science course at Brown, [CS17](#).
- **Tutor and Teacher's Assistant** Jun 2015 - Current
 - **Math Resource Center Tutor:** Help students with introductory math courses.
 - **SAT Tutoring:** Tutored several students for the Math SAT.
 - **Hope High School:** Assist a teacher teaching intermediate algebra courses.
 - **CubeSAT:** Developed and taught a physics curriculum for West Broadway Middle School.

SKILLS

- **Languages:** Portuguese (fluent), German (intermediate level)
- **Music:** Piano (classical), Flute (orchestra, band, classical)
- **Programming Languages:** Python, MATLAB, L^AT_EX, CAD, Racket, OCaml, Javascript, Google Apps Script, Mathematica, Arduino (C, C++).