
EDUCATION

- **Brown University:** Providence, RI Sep 2015 - May 2019 (expected)
Bachelors of Science in Applied Mathematics
 - **Coursework:** Differential Equations (3), Fluid Mechanics (2), Physics (4), Statistics (2), Dynamical Systems (2), Physical Geology (4 - atmosphere, ocean, solid earth, climate), Computer Science (2).
 - **Grants:** Received Brown Maker Grant and Rhode Island Space Grant to develop experimental rocketry ([github](#)).
- **High School** 2011 - May 2015
 - **Oakwood Friends School:** Poughkeepsie, NY. Sep 2014 - May 2015
 - **Colegio Objetivo:** Campinas, Brazil. Rotary Youth Exchange Student. Jul 2013 - Jun 2014
 - **F. D. Roosevelt High School:** Hyde Park, NY. Sep 2011 - Jun 2013

WORK EXPERIENCE

- **Head Teaching Assistant** Jun - Dec 2018
CSCI 0111 - Computing Foundations: Data, Brown University
 - **Course development:** Developed assignments for new introductory computer science course at Brown.
 - **Leadership:** Co-led team of undergraduate teaching assistants.
 - **Software:** Developed software to anonymously grade student work quickly while easily giving detailed feedback.
 - **Feedback:** Personal evaluations written by students available upon request. Scored 1.21 with 1 being the highest score and 5 being the lowest. Course received a 1.48.
- **Teaching Assistant** 2017 - 2019
Brown University Computer Science Department
 - **CSCI 0170:** Computer Science: An Integrated Introduction (part 1). Fall 2017
 - **CSCI 0050:** A Data-Centric Introduction to Programming. Summer 2018
 - **CSCI 0180:** Computer Science: An Integrated Introduction (part 2). Spring 2019
- **Mentor, Trip Leader, Food Manager** Jan 2017 - Current
Brown Outdoor Leadership Training (BOLT), Brown University
 - **Mentor:** Trained leaders in facilitation, mentorship, and technical skills to lead backpacking trips (2018, 2019).
 - **Food Manager:** Purchased, organized, and divided food for 18 backpacking trips in the White Mountains.
 - **Leader:** Led a 5 day trip with 8 sophomores, transfers, and RUE students in the White Mountains, continuing with a mentorship program in the subsequent semester.
 - **Leader Training:** Received 200 hours of training in facilitation, leadership, diversity, and technical and medical skills preparing for the trip.
- **Research Assistant** Jun - Aug 2017
Fox-Kemper Physical Oceanography Lab, Brown University
 - **Stochastic Differential Equations:** Developed a tool to model systems of nonlinear stochastic ordinary differential equations.
- **Research Experiences for Undergraduates Student Intern** Jun 2016 - Aug 2016
LIGO Scientific Collaboration, Louisiana State University, Dr. Gabriela Gonzalez (mentor) Baton Rouge, LA
 - **Independent Research:** Characterized transient noise signals in the LIGO detectors.
 - **Poster:** Created a digital poster, working with LSU's tangible visualization research group.
- **Information Technology Intern** Jun 2015 - Sep 2015
Oakwood Friends School Poughkeepsie, NY
 - **Web Apps:** Developed a series of web apps for internal use; see [eliasberkowitz.com](#).

SKILLS

- **Programming Languages:** Python, Javascript, Java, Scala, MATLAB, Bash, L^AT_EX, Racket, OCaml, Google Apps Script, Mathematica, Arduino.
- **Tutoring:** Experience tutoring college and high school level Math and programming.
- **Languages:** Portuguese (fluent), German (beginner level).
- **Medical Certifications:** CPR, Wilderness First Responder (WFR).
- **Music:** Piano (classical), Flute (classical).