

## EDUCATION

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- **Brown University** Sep 2015 - May 2019  
*Bachelors of Science in Applied Mathematics. Providence, RI*
  - **Relevant 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).
  - **Open Rocketry Initiative:** Started the first experimental rocketry club at Brown ([github](#)).
  - **Grants:** Brown Maker Grant. Rhode Island Space Grant.
- **High School** 2011 - May 2015
  - **Oakwood Friends School:** Poughkeepsie, NY (Graduated in 2015).
  - **Colegio Objetivo:** Rotary Youth Exchange Student (Jul 2013 - Jun 2014).

## WORK EXPERIENCE

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- **Head Teaching Assistant** Jun - Dec 2018  
*CSCI 0111 - Computing Foundations: Data, Brown University Providence, RI*
  - **Course development:** Developed assignments for new introductory computer science course at Brown.
  - **Leadership:** Co-led team of undergraduate teaching assistants.
  - **Software:** Developed software to 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, 2018, 2019  
*CSCI 0170, CSCI 0050, CSCI 0180 Providence, RI*
- **Research Assistant** Jun - Aug 2017  
*Fox-Kemper Physical Oceanography Lab, Brown University Providence, RI*
- **Mentor, Trip Leader, Food Manager** Jan 2017 - Current  
*Brown Outdoor Leadership Training (BOLT), Brown University Providence, RI*
  - **Mentor:** Trained leaders in facilitation, mentorship, and technical skills to lead backpacking trips (2018, 2019).
  - **Leader:** Led a 5 day trip with 8 sophomores, transfers, and RUE students in the White Mountains. Received over 200 hours of training in facilitation, leadership, diversity, and technical and medical skills.
  - **Food Manager:** Purchased, organized, and divided food for 18 backpacking trips in the White Mountains.
  - **Leader Training:** Received 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 Baton Rouge, LA*
  - **Mentor:** Dr. Gabriela Gonzalez
  - **Research:** Characterized transient noise signals in the LIGO detectors.
- **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](http://eliasberkowitz.com).
- **Other Teaching Experience** Jun 2015 - Dec 2018
  - **Tutoring:** Tutored a high school student in Python & machine learning; tutored students for the Math SAT.
  - **Math Resource Center Tutor:** Helped students with introductory math courses.
  - **CubeSAT:** Developed & taught a physics curriculum for West Broadway Middle School.

## SKILLS

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- **Languages:** Portuguese (fluent), German (intermediate level)
- **Music:** Piano (classical), Flute (orchestra, band, classical)
- **Programming Languages:** Python, MATLAB, L<sup>A</sup>T<sub>E</sub>X, CAD, Racket, OCaml, Javascript, Google Apps Script, Mathematica, Arduino (C, C++).