

Philip Englund Mathieu

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EDUCATION

Brown University

Providence, RI

Bachelor of Arts (Physics) – GPA: 3.58/4.00

Class of 2017

- **Computer Science Courses:** “Introduction to Computer Systems,” “Computational Probability and Statistics,” “Interfaces, Information, and Automation”

Academic Recognitions: Elected to Sigma Xi (scientific research honor society)

MOOCs

Learning from Data (Caltech via edX)

Fall 2017

Deep Learning Specialization (DeepLearning.ai via Coursera)

May – August 2020

- **Courses** (four weeks each): Neural Networks and Deep Learning, Improving Deep Neural Networks, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models

EXPERIENCE

Cape Elizabeth Land Trust

Cape Elizabeth, ME

Program Coordinator

August 2019 – Present

- Directing education programs for students and adults at a land trust just outside of Portland, ME
- Producing written and multimedia content for the newsletter, website, Cape Courier (local newspaper), and social media (Facebook and Instagram)
- At various points, also assisted with non-programmatic initiatives including municipal permitting, land management planning, trail and bridge design, mapmaking, and geospatial data analysis

Freelance

Various

Podcast Host, Videographer

September 2015 – Present

- Providing live audio and video event support for organizations including Cape Elizabeth Land Trust, The Ecology School, and Nativity Lutheran Church
- Produced, engineered, and hosted [Ecology is Everywhere](#), a podcast about environmental education
- Operated onscreen graphics and cameras for the Brown University’s live streaming sports service, including broadcasts distributed by ESPN and NESN

The Ecology School

Saco, ME

Ecology Educator

Spring 2018, Spring 2019

- Taught ecology to groups of 8-13 middle school students in residential outdoor education setting
- Created and adapted activities to incorporate skills such as data literacy into the traditional environmental science curriculum

Uproot Inc

Providence, RI

Founder and CFO

June 2018 – March 2019

- Cofounded a plant-based milk company serving food service establishments at colleges
- Guided company from conception through two incubator programs and \$60,000 initial fundraising
- Performed financial work including bookkeeping and business planning
- Completed a sustainability analysis synthesizing published work on the environmental impact of dairy products and dairy alternatives

Brown Formula Racing

Providence, RI

Co-Captain (2017), Analytics Design Lead (2016), Team Member (2013-2015)

2013 – 2017

- Facilitated operations of a student engineering team to design, build, test, and race a car in the Formula SAE collegiate design competition
- Utilized a range of engineering software including SolidWorks CAD, Autodesk CFD, and G-code
- Defined concrete team-wide engineering goals and implemented data-driven design and testing program that led to the team's best finish since 2012

UTRA/NASA Rhode Island Space Grant Consortium Summer Scholarship

Providence, RI

Undergraduate Researcher, Pober Radio Astronomy Lab

2016 – 2017

- Wrote Python code to analyze the first data from the Hydrogen Epoch of Reionization Array (HERA) radio telescope, a precursor to the Square Kilometer Array
- Published a technical memo on the HERA team website documenting one of the first signals observed with this telescope
- Gave a poster presentation at 229th American Astronomical Society meeting in Grapevine, TX and presented a talk at the 2017 NASA/RI Space Grant Consortium Symposium

Brown University

Providence, RI

Physics and Engineering Tutor, Design Workshop Monitor

2015 – 2017

- Taught weekly group tutoring sessions on introductory physics and linear circuit analysis
- Curated and adapted problem sets to provide extra support beyond official course materials
- Provided supervision, maintenance, and technical assistance at Brown University's maker space

VOLUNTEER WORK

New England Synod

Worcester, MA

Board Member

2017 – Present

- Serving as the young adult representative on the board of the New England Synod of the ELCA, operating as the governing body for over 200 Lutheran congregations in New England
- Coordinated the Jubilee 2020 campaign, which raised and distributed \$400,000 in graduate student loan relief to New England pastors
- Chaired committee that developed a new approach to determining appropriate compensation levels for pastors based on Cost of Living and other local variables

Sierra Club Maine

Maine

Legislative Team Member

December 2020 – Present

- Drafted and presented testimony on behalf of Sierra Club for three bills including the Land for Maine's Future bond, a cornerstone of state conservation funding

AWARDS

- [Rhode Island Inno's 2019 50 On Fire](#) (with Uproot)
- [Rhode Island Inno's 2018 25 Under 25](#) (with Uproot)
- Grand Prize - Zip Car [2017 Students With Drive](#) video competition (with Brown Outing Club)

SKILLS AND INTERESTS

- **Software Experience:** Adobe Creative Cloud, Solidworks, Autodesk Fusion 360, Microsoft Office/Google Docs including VBA and GoogleScripts, Asana, Trello, Airtable, Wordpress
- **Programming Languages:** Python, C, Matlab, HTML/CSS
- **Hobbies:** recording music, electrical engineering, cooking and homebrewing, skiing, hiking