

# DANIEL HARRINGTON

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Portfolio: [danielharrington.me/](https://danielharrington.me/)

## EDUCATION

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**B.Sc. Physics**, Tufts University

*(in progress–May 2026)*

Minors: Mathematics, CS

Relevant Courses:

- Linear Algebra – use of MATLAB and applications to CS and geometry
- Modern Physics – has Python challenges, e.g. graphing spacetime diagrams and Lorentz transforms
- Multivariable Calculus, Physics I/II (past)

Spring Term Courses (planned):

- Differential equations, Data Structures, Electronics, Bridge to Higher Mathematics

**HS Diploma, Honors with Distinction**, Foundation Academy, Western Academy of Beijing

- National Merit Scholar Finalist

## EXPERIENCE

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**Tufts SEDS Club** – Radio Telescope Team Member

*(Fall 2022-)*

- Involved in developing and constructing 3-meter educational radio telescope
- Coordinate with department and facilities for safe construction
- Perform dish and assembly structure geometry calculations, write reports

**Opportutoring, Beijing Chapter** – Chapter Director, Tutor

*(Fall 2019-Spring 2021)*

- Planned and taught live online English lessons to refugees; aided in scholarships and TOEFL practice; ran meetings; coordinated with international partner groups
- Spoke on panel to school faculty on organization mission and equity advocacy

**Western Academy of Beijing STEMx Club** – Co-leader

*(Fall 2019-Spring 2021)*

- Organized and led interactive workshops for 4th graders in various STEM areas
- Developed experiments; ran meetings; organized schedules, collaborated with faculty

## PROJECTS

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*See Portfolio Site*

- **Physics Simulations** – Fluids, EM waves, N spring systems, 3D projection, and more; C++/SFML, JS
- **IoT Coffee Maker** – Full stack web app, takes user input for alarm time; Python/Flask, MySQL, JS
- **Exoplanet Data** – NASA data analysis, computed planetary metrics, regression; Python

## SKILLS

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**Software:** Python (Pandas, numpy, matplotlib, Flask), C/C++, JS, web development (React, GatsbyJS HTML/CSS), SQL, Git, Excel, LaTeX, Linux/MacOS/Windows

**Hardware:** Electronics, soldering, CAD (Fusion360)