

# ERIN WALK

10 Cowperthwaite St. Cambridge, MA  
301-787-9557 ◊ ewalk@mit.edu

## EDUCATION

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- Massachusetts Institute of Technology, Cambridge MA** *Current*  
Doctoral Student  
Social and Engineering Systems
- Harvard University, Cambridge MA** *May 2017*  
Bachelor's Degree, Mechanical Engineering  
Minor in Government-International Relations
- Bethesda-Chevy Chase High School, Bethesda MD** *May 2013*  
High School Diploma

## PROJECTS

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- Social Media and Conflict in Syria** *2020*  
Research Assistant to Professor Fotini Christia, MIT Political Science. Additionally advised by Postdoctoral Researcher Kiran Garimella, IDSS. Analyzing data from social media sources, including Twitter and Telegram, to understand the conflict in Syria.
- Perovskite Solar Cells with Graphene Electrodes** *2016*  
Research Assistant for Professor Jing Kong, MIT Nanomaterials and Electronics Group. Culminated in a poster presentation.
- Automated Drone Flight** *2015*  
Mentored by Professor Evelyn Hu (Harvard), Professor Ling Shi and Professor Kei May Lau (HKUST). Joint Harvard- Hong Kong University of Science and Technology team project to design and implement a drone delivery system featuring automated flight features and tracking on a mobile application. Culminated in a final presentation, report and demonstration.

## WORK EXPERIENCE

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- Cloudflare, Inc** *2017 - 2019*  
*Policy Analyst*  
Member of a four person global policy team. Researched current policy initiatives and their impact on cybersecurity and company practices. Spoke with lawmakers and experts to understand their viewpoints and further company interests. Organized, automated and ran day-to-day operations for corporate social responsibility projects.

## CONFERENCES AND PUBLICATIONS

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*Social Media Narratives on Conflict from northern Syria* accepted at 16th Annual Households in Conflict Network (HiCN) Workshop on Social Unrest and Violent Conflict in Times of Pandemics on 10-11 November 2020.

## ACADEMIC AND MENTORSHIP EXPERIENCE

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- Harvard University, Cambridge MA** *2019 - Present*  
*Mather House Faculty Dean Aide*

Work with the Faculty Deans to create a warm and welcoming environment in Mather House. Engage with students and organize and run house events.

**Harvard University, Cambridge MA**

2014 - 2017

*Teaching Roles*

**Math 1b:** Calculus, Series and Differential Equations Course Assistant 2014-2015. Taught weekly problem solving sessions and staffed the Math Question Center.

**Physics 15a:** Introductory Mechanics and Relativity Grader 2017

**Math 21a:** Multi-variable Calculus Tutor 2014

**GRADUATE COMMITTEES**

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**IDSS Student Council Inaugural DE&I Officer**

*Current*

Member at large of the IDSS Student Council working on DE&I Initiatives.

**IDSS REFS**

*Current*

Member of the inaugural set of IDSS REFS, Resources for Easing Friction and Stress, providing confidential peer support. Participating in the early stages of setting up this program.

**MIT Policy Hackathon Organizing Committee**

*Summer - Fall 2020*

*Director of External Affairs*

Recruited speakers, judges and participants for the 2020 MIT Policy Hackathon. Developed a connection between the programming and our theme of Equity and Engagement.

**IDSS Task force on Diversity, Equity and Inclusion**

*Summer 2020*

**ACADEMIC ACHIEVEMENTS AND FELLOWSHIPS**

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Michael Hammer Fellow 2019

MIT Summer Research Program Intern 2016

Phi Beta Kappa Senior 48, Cum Laude, John Harvard Scholar 2014 and 2015, Detur Book Prize 2014

AFCEA and Parsons undergraduate scholarships for excellence in engineering

**SKILLS**

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**Software**

Python, R, C++, MatLab (working), SQL (working)

**Modeling and Experimental**

SolidWorks, COMSOL, Machine shop

Clean Room and Glove Box procedure

**Other**

Intermediate French and Chinese, MS Office, L<sup>A</sup>T<sub>E</sub>X

CPR certified, DC boating license

**PERSONAL**

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Assistant Coach for Bethesda-Chevy Chase High School Novice Womens Rowing, Fall 2017

Letter Winner on the Radcliffe Varsity Lightweight Rowing Team, 2013-2017

Group fitness instructor at [solidcore], 2019

**REFERENCES**

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Available upon request