

Kelly Yen

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Education

M.S. in Information Networks, Aalto University 2024 - 2026

- Courses: Algorithmic Systems and Society, Political Organizations, Systems Thinking

B.S. in Engineering with Computing, Franklin W. Olin College of Engineering 2019 - 2023

- GPA: 3.92 / 4.00
- Courses: Data Science, Software Systems, Collaborative Design, Modeling and Simulation
- Achievements: Olin Half Tuition Merit Scholarship, National Merit Scholarship, Clare Boothe Luce Research Award, Public Interest Technology Fellowship, Amazon SURE Fellowship

Professional Experience

Columbia University - Research Assistant - New York, NY Summer 2023

- Project funded by Amazon SURE Fellowship and hosted by Dr. Xia Zhou's Mobile X Lab
- Developed python infrastructure to optimize facial landmark processing pipeline
- Tested signal processing approaches to improve reliability of landmark tracing
- Presented weekly updates to lab mates and presented research in final symposium

HP - Firmware Engineering Intern - Spring, TX Summer 2022

- Developed a custom data visualization tool to extract key information from BIOS build logs
- Streamlined the BIOS development process by reducing debugging time
- Participated in daily scrum meetings, code reviews, and campus wide poster presentation

Franklin W. Olin College of Engineering - Undergraduate Researcher - Needham, MA 2020 - 2021

- Designed a fluorescence based optical circuit to determine chlorophyll concentration in water samples
- Applied digital and electrical filtering techniques to optimize signal analysis pipeline on a Raspberry Pi
- Prototyped system to be used on moored profilers for early algae bloom detection in aquaculture farms

Microsoft - Summer Intern - Redmond, WA Summer 2019

- Designed and built functional prototype of community oriented Hacking STEM website with SQL database
- Wrote and presented project specs, MVP specifications, and software design documents
- Assisted with hosting a week-long professional development workshop for project based STEM education
- Interviewed users and incorporated feedback into website design

Projects

Air Partners - Student Project Manager - Roxbury, MA 2022 - 2023

- Worked with community partners to advance data driven environmental justice advocacy work
- Installed HEPA purifiers at 30+ residences and quantified their effectiveness at mitigating PM2.5 and PM10 indoor air pollution

Public Interest Technology - Project Manager, Member - Needham, MA 2019 - 2022

- Helped establish and grow PINT into a 25+ student organization
- Designed workshops and hands on project experience to encourage engineering students to engage with the social and ethical implications of technology development

Skills

- **Software:** Python, Full stack development, Typescript, React, Git, Java, R, Matlab
- **Project Management:** Agile, Scrum
- **Design & Media:** Adobe Suite, Figma, UI/UX, Da Vinci, Photography
- **Languages:** Mandarin Chinese, English