Stephanie Chin

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Summary:
- Graduating senior seeking full-time job in construction/infrastructure innovation and sustainability.
- Diverse skills and experience in engineering design, data analysis, computer programming, research, and leadership.

EDUCATION & COURSEWORK

Massachusetts Institute of Technology (MIT), *Cambridge, MA* Jun 2019
B.S. in Civil & Environmental Engineering (CEE) (Degree: 1-ENG Systems, Cum GPA: 4.7/5.0)
Analysis: Machine Learning, Algorithms, Multivariate Data Analysis, Statistics.
Engineering: Transportation Systems, Principles of Energy & Water Sustainability, CEE Design Lab.
Management: Public Policy, Project Eval. & Management, Innovative Project Delivery.
Modeling: Computational Structural Design & Opt., Envir. Tech. in Buildings, Water Resource Systems.

RESEARCH & EXPERIENCE

CNN Machine Learning on Traffic Images, *MIT, Cambridge, MA* Sep 2018 – present
- Independent research supervised by PhD student to use Keras for real-time object detection in MassDOT traffic camera images.

Systems Dynamics for Building Policy, *Tsinghua University, Beijing, China* Jun – Aug 2018
- Independent case study supervised by post-doc researcher and PhD candidate.
- Communicated with Chinese colleagues in English and Mandarin and navigated cultural differences.

Daylighting/Thermal Performance, *Texas A&M University-Kingsville, Kingsville, TX* Jun – Aug 2017
- Independent experimental research advised by professor and PhD candidate.
- Submitted 40-page report to NSF, and published/presented paper at ASHRAE Conference 2018.

Sustainable Cement-Ash Mix, *MIT, Cambridge, MA* Sep 2015 – Jun 2017
- Experimental research working both independently and under supervision of post-doc researcher.
- Performed labwork, used advanced material analysis techniques, co-authored 3 journal papers, and presented results at MIT, Kuwait, and ACS National Conference 2017.
- Communicated with international colleagues and collaborated with researcher at Argonne National Lab.

Data Analysis for Construction Safety, *Skanska USA, Boston, MA* Jun – Aug 2016
- Independent project, with remote input/collaboration from diverse team of safety managers and project managers from different offices throughout the East Coast.
- Wrote 40-page project report to recommend potential safety improvements.
- Conducted background research on sensor networks for construction jobsites (side project).

Software UI Intern, *Worcester Polytechnic Institute, Worcester, MA* May – Aug 2015
- Developed UI for a Solidworks plug-in (for FRC highschool robotics) under guidance of undergraduate.

LEADERSHIP

UA Sustainability Committee, *MIT* Sep 2015 – present
- Collaborated with administrators, faculty, staff, and students and advised/supported 50-person committee across 7 subcommittees as Secretary, Publicity Chair, and Exec Member.
- Controlled $9K budget and facilitated subcommittee grant/sponsorship proposals as Treasurer.
- Organized events and initiatives in teams of 3 - 8 people.

East Campus REX Orientation Committee, *MIT* Dec 2017 – Sep 2018
- Managed financing/procurement ($40k budget), oversaw 4 construction teams (including 3-story wooden fort, 70-ft pedestrian bridge, kinetic rides) and 20 small events for dorm's REX Orientation.
- Communicated with administrators, students, engineering consultants, and external vendors.

East Campus (EC) dormitory, *MIT* Nov 2015 – Jan 2018
- Handled $80K budget across 20+ subcommittees/project accounts as Treasurer.
- Discussed dorm policies with MIT administration as Dorm Exec Member (representing 380 students).
- Resolved housing conflicts, supported student well-being as Hall Chair (representing 40 students).
- Piloted composting and improved recycling infrastructure as Dorm Eco-Rep.

Civil & Envir. Engr. Student Association (CEESA), *MIT* Jan – Dec 2017
- Liaised with administration and student leaders as Treasurer and Exec Member.

SKILLS

Coding/Software: MATLAB, Python, Git, CAD (Rhino/Grasshopper), LaTex, GIMP
Writing: Co-authored 3 peer-reviewed journal research papers
Language: English (native), Spanish (limited proficiency), Mandarin (limited written and oral proficiency)

INTERESTS

Research: Smart Cities/Infrastructure/Utilities, Construction Innovation, Modeling/Data Visualization
Extracurricular: Sustainability, Music (trumpet & piano), Podcasts, Swing dance, Scuba (SDI certified)