

# JEREMY YIN

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## EDUCATION

### University of Illinois at Urbana-Champaign (UIUC)

Expected Graduation Date: May 2021

*Civil and Environmental Engineering, Bachelor of Science*

- Minor: International Minor in Engineering
- Relevant Coursework: Structural Engineering, Steel Structures 1, Reinforced Concrete 1 (Fall 2020), Structural Analysis, Transportation Engineering, Public Transportation Systems, Railroad Track Engineering (Fall 2020)

### Hong Kong University of Science and Technology

Jun. 2018-Aug. 2018

*Exchange Student*

Clear Water Bay, HK

- Relevant Coursework: Physics Electricity and Magnetism

## WORK EXPERIENCE

### Illinois Department of Transportation

Jun. 2020-Aug. 2020

*Seasonal Engineering Technician Intern*

Champaign, IL

- Reviewed construction design plans, specifications, and documents pertaining to the \$10.3 million curb and gutter, lighting, and sidewalk project on University Avenue
- Oversaw curb and gutter, sidewalk, and lighting removal and installation for the 2 miles of road
- Performed air, slump, and strength tests to determine the reliability and quality of the reinforced concrete used on the sidewalk, driveway, and mast arm foundations
- Conducted routine traffic control checks to preserve the safety of pedestrians and motorists

### National University of Singapore

Jun. 2019-Aug. 2019

*International Summer Researcher*

Singapore, Singapore

- Built python optimization program to test-run various algorithms for construction site partition efficiency
- Re-innovated current methodology by implementing a minimal spanning tree algorithm
- Optimized earthworks distribution methods in a simulated environment
- Consolidated findings in a research proposal by synthesizing and expanding upon current literature
- Presented findings in Engineering Research Fair & International Research Symposium

## LEADERSHIP

### Engineering Student Alumni Ambassadors

Jan. 2018-Present

*Alumni Relations Committee*

Urbana-Champaign, IL

- Planned, ran and re-innovated alumni events on campus through the Office of Advancement for the College of Engineering
- Foster relations between engineering alumni and students through service, professional development, and networking events

### UIUC Steel Bridge Team

Aug. 2017-Present

*Structural Captain*

Urbana-Champaign, IL

- Assisted with design, fabrication, and construction of a one-tenth scale 20-foot steel bridge capable of supporting 2500 pounds with minimum deflection to meet AISC and NSSBC construction specifications
- Planned methods to increase bridge efficiency and improve constructability
- Led general meetings and managed fabrication process in the student shop
- Improved club structure to encourage member input
- Modeled bridge design and calculated bridge dimensions using SketchUp and Autodesk Inventor
- Led the team through the 2018 and 2019 Great Lakes Student Conference

## SKILLS

Software and Computer Languages: MATLAB, Python, Autodesk Inventor, Autodesk Revit, Sketchup  
Shop certified by Newmark Civil Engineering Team  
Con conversationally fluent in Mandarin