

# Peijing Li

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1300 East Ann Street, 5104 Couzens Hall, Ann Arbor, MI 48109

## **EDUCATION**

### **University of Michigan**

Ann Arbor, MI

### **Bachelor of Science in Engineering in Computer Science**

Apr 2024

*Minor in Civil Engineering; College of Engineering Honors Program*

- Cumulative GPA: 4.0/4.0 with 144 credit hours completed.
- Upper-level electives: Computer Architecture, Advanced Compilers, Computer Security, Computer Vision, Computer Network, Transportation Engineering, Infrastructure Systems Optimization
- Honors: James B. Angell Scholar (two-time, awarded to top 0.5% of undergrads at U-M, Mar 2023);

## **EXPERIENCE**

### **ASML Silicon Valley**

San Jose, CA

*Software Test Engineer Intern*

May 2023 – Aug 2023

- Working with the Brion-US SQA team on Focus Exposure Modeling
- Develop Python script for automating the narrow-down process of bug discovery and synchronization of manual test analysis reports with qTest databases, both in the context of regression testing of FEM software builds

### **University of Michigan Department of Civil and Environmental Engineering**

Ann Arbor, MI

*Instructional Aide in CEE 375 – Sensors, Circuits and Signals Course*

Jan 2023 – Apr 2023

- Lead lab section for class of 10 students in experiments on signal processing and Arduino programming
- Hold twice-weekly office hours to help students with homework and other course-related questions.

### **University of Michigan Transportation Research Institute**

Ann Arbor, MI

*Research Assistant, Biosciences Group*

Feb 2022 – Sep 2022

- Developed computer vision system for monitoring body postures of occupants of Level-3 autonomous vehicles
- Constructed multi-body models of vehicle occupants in MATLAB and Mathematica based on 3D body scan data
- Composed manuscript of review article of research trends in digital human models, in review by the *International Journal of Vehicle Design*

### **Dell EMC**

Shanghai, China

*Software Engineering Intern, Research & Development*

Jun 2021 – Aug 2021

- Automated testing procedures with repository of ~10 Python and Perl scripts for the VMware Cloud Foundation
- Decreased time spent on lifecycle management testing on datacenter software by up to 50%
- Collaborated with team through Confluence and Jira to deliver two major software releases over three months

## **PUBLICATIONS**

[1] Li, Peijing, and Neda Masoud. "A Communication Protocol for Securing Connected Vehicle Platoons Using Joint Hardware-Software Means." In 6th Student Poster Competition at the CCAT Global Symposium. Ann Arbor, MI: Center for Connected and Automated Transportation, 2023.

[2] Li, Peijing, and Jian Li. "Exploration of the Application of Grey-Markov Models in the Causality Analysis of Traffic Accidents in Roundabouts." Manuscript in press at PLOS ONE, May 30, 2023.

## **SKILLS**

- *Programming Skills*: Java, JavaScript, Python, C/C++, x86/ARM/RISC-V Assembly, LLVM, SystemVerilog
- *Additional Computer Skills*: Docker, Confluence, Jira, MATLAB, Wolfram Mathematica, Adobe Premiere Pro

## **PERSONAL DEVELOPMENT**

- Active member of Tau Beta Pi, Michigan Gamma chapter (Apr 2023 – Present)
- Member of University of Michigan Club Cycling Team (Sep 2021 – Present)
- Member of University of Michigan Engineering Student Government (Sep 2020 – Apr 2022)