

Peijing Li

peijili@umich.edu | (515)715-3989 | <https://www.linkedin.com/in/peijing-li>
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 156 credit hours completed.
- Upper-level electives: Computer Architecture, Advanced Compilers, Computer Security, Computer Vision, Transportation Engineering, Infrastructure Systems Optimization, Linear Optimization

EXPERIENCE

ASML Silicon Valley

San Jose, CA

Software Test Engineer Intern

May 2023 – Aug 2023

- Perform software quality assurance tests on focus exposure modeling software to optimize the performance of photolithography scanners
- Develop Python script for automating the narrow-down process of bug discovery and synchronization of manual test analysis reports with qTest databases

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 review article of research trends in digital human models

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] P. Li and N. 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, Apr. 2023. [Online]. Available:

<https://ccat.umtri.umich.edu/symposium/2023-symposium/#poster>.

[2] P. Li and J. Li, "Exploration of the application of Grey-Markov models in the causality analysis of traffic accidents in roundabouts," PLOS ONE, vol. 18, no. 9, p. e0287045, Sep. 2023, doi: 10.1371/journal.pone.0287045.

[3] J. Li, P. Li, and J. Hu, "Digital human models in automotive engineering applications: a bibliometric analysis of research progress and prospects," Accepted by and in press with the International Journal of Vehicle Design, Oct. 2023, doi: 10.1504/IJVD.2023.10060019.

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