

Zhengyang Wan

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Education

- University of Wisconsin-Madison** Sept 2025 - Present
Ph.D. in Civil and Environmental Engineering
◦ Advisor: [Dr.Sikai Chen](#)
- Tongji University** Sept 2022 - Jun 2025
M.S. in Transportation Engineering
◦ Advisor: [Dr.Hechao Zhou](#)
- Tongji University** Sept 2018 - Jun 2022
B.E. in Vehicle Engineering

Publications


(* Co-first authors)

- [1] Zilin Huang*, Zihao Sheng*, **Zhengyang Wan***, et al. “Sky-Drive: A Distributed Multi-Agent Simulation Platform for Socially-Aware and Human-AI Collaborative Future Transportation,” *arXiv preprint arXiv: 2504.18010*, 2025.
- [2] Hechao Zhou, **Zhengyang Wan**, Mingsu Mei, et al. “Study of the Tire Wear of Virtual Track Train,” *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, 2024. doi:10.1177/09544070241280744
- [3] **Zhengyang Wan**, Hechao Zhou, and Jimin Zhang. “Development of Driving Simulation Platform for Virtual Track Train,” *Urban Rapid Rail Transit*, vol. 38, no. 02, pp. 31-38, 2025.

Patents

- [1] Hechao Zhou, **Zhengyang Wan**, Zhennan Cai, et al. “An Integrated Driving Simulation Platform for Virtual Track Trains,” 202410671073.7. 2024.

Research Projects

- Sky-Drive** Nov 2024 - Present
◦ Developed an electronic classroom where multiple users can simultaneously view and draw on a “chalkboard” with each person’s edits synchronized
◦ Tools Used: CARLA, Python, Unreal Engine
◦ Project Website: [Project Sky-Drive](#)
- Synchronized Desktop Calendar** [github.com/name/repo](#) 
◦ Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
◦ Tools Used: C#, .NET, SQL, XML

Work Experience

- Data Analyst Intern** Oct 2021 - Mar 2022
Cargill Shanghai, CN
◦ Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
◦ Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
◦ Redesigned chat file format and implemented backward compatibility for search

Honors and Awards

CRRC Zhuzhou Fellowship , Tongji University	Oct 2024
First Prize in Harting Technology Competition , Harting Technology Group	Dec 2023
Outstanding Student Scholarship , Tongji University	Oct 2022

Talks

[1] Sky-Drive: A Distributed Multi-Agent Simulation Platform for Socially-Aware and Human-AI Collaborative Future Transportation. <i>2025 Safe Mobility Conference</i> (Poster)	Apr 2025 Madison, WI
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Services

Research Assistant (Advisor: Dr.Sikai Chen) <i>University of Wisconsin-Madison</i>	Sept 2025 - Present
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Skills

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: .NET, Microsoft SQL Server, XCode, Interface Builder