Jingjie WANG

West Lafayette, United States | +1 (447) 253-0954 | wang0601@purdue.edu | ORCiD | Google Scholar

EDUCATION

Purdue University | Edwardson School of Industrial Engineering   **West Lafayette, U.S.**
Doctor of Philosophy (Industrial Engineering), advised by Dr. Brandon Pitts   Aug 2025-May 2030 (Expected)
- Research Assistant in *N*HanCE Lab

Sichuan University (SCU) | Pittsburgh Institute (SCUPI)   **Chengdu, China**
Bachelor of Engineering (Industrial Engineering)   Sep 2021-Jun 2025
- **GPA:** 3.93/4.00
- **Representative Honors:**
  - SCU Ten Outstanding Undergraduate Students Finalist (2025, **Highest Undergraduate Honor, top 1‰**)
  - Outstanding Graduate of Sichuan Province (2025, **top 5%**), Outstanding Graduate of SCU (2025, **top 5%**)
  - SCU Special Merit Scholarship (2024, Highest Undergraduate Scholarship, **top 1‰**)
  - SCUPI Dean's List (2024, **top 5%**)
  - Finalist in the Interdisciplinary Contest in Modeling (2024, **top 2% worldwide**)
  - SCU Comprehensive Scholarship (2022 and 2023, **top 5%**)
  - SCU Outstanding Student (2022, 2023 and 2024), SCU Outstanding Student Leader (2022, 2023 and 2024)
- **Undergraduate Thesis:** Impact of Driver Experience on Takeover Performance during Silent Automation Failure

PUBLICATIONS & AWARDS

- **Wang, J.**, Luo, Y., Zhou, X., Zhao, W., Lei, Y., & Xie, W. (2025). Impact of assistance behavior on evacuation efficiency in high-rise hospital inpatient buildings: An agent-based simulation study. *Journal of Building Engineering*, *112*, 113780. https://doi.org/10.1016/j.jobe.2025.113780
- Luo, Y., **Wang, J.**, Yan, Z., He, J., Fu, L., Wang, S., Han, Y., Fu, Y., Wang, X., Li, K., Yin, R. & Pu, D. (2025). Enhancing laparoscopic surgery training: a comparative study of traditional models and automated error detection system. *BMC Medical Education*, 25(1), 1-12. https://doi.org/10.1186/s12909-025-07242-3
- Hu, B., Huang, L., Chang, H., Ji, Z., Yan, Z., Qu, D., **Wang, J.**, Qu, F., & Liang, H. (2025). A review of key parameters affecting inorganic scaling in thermal, pressure, and osmosis-driven membranes for produced water desalination. *Separation and Purification Technology, 354*(4), 129023. https://doi.org/10.1016/j.seppur.2024.129023
- Young Scientist Award for Outstanding Oral Presentation in *The 9th Digital Belt and Road Conference*

PATENTS

- China-Nepal corridor landslide risk prediction and intelligent decision system. *Patent No. 2024SR0934297.*
- Surfstar: Ground penetrating radar data intelligent processing platform. *Patent No. 2024SR0565457.*
- Surfstar: Ground penetrating radar data intelligent analysis technology software. *Patent No. 2024SR1533959.*

TEACHING EXPERIENCE

Teaching Assistant | IE 1055: Engineering Management	Feb 2025-Jun 2025
Teaching Assistant | ENGR 0012: Engineering Computing	Feb 2025-Jun 2025
Teaching Assistant | MATH 0290: Differential Equations	Sep 2024-Jan 2025
Teaching Assistant | ENGR 0031: Electric Circuits	Sep 2024-Jan 2025
Teaching Assistant | ENGR 0011: Introduction to Engineering Analysis	Feb 2024-Jun 2024

LEADERSHIP EXPERIENCE

Communication Director | HFES, Purdue	West Lafayette, USA | Aug 2025-May 2026
President | Industrial Engineering Class 2, SCUPI	Chengdu, China | Sep 2021-Jun 2025
President | Disaster Reduction & Emergency Management Association, SCU-IDMR	Chengdu, China | Sep 2021-Jun 2025

EXTRACURRICULAR ACTIVITIES

Captain | Debate Team of SCU Pittsburgh Institute   Chengdu, China | Sep 2022-Jun 2025
- Winner of the First Prize in the Yunmi Cup Debate Competition (2021)
- Winner of the Best Debater in the SCUPI Student Innovation Forum (2021)
- Winner of the Third Prize in the Lushan Cup Debate Competition (2021)

Captain | Volleyball of SCU Pittsburgh Institute   Chengdu, China | Sep 2022-Jun 2024
- Gold medal in the SCU Individual Volleyball Competition (2024)

- Bronze medal in the SCU Volleyball College Cup (2024)
- The final eight in the SCU Individual Volleyball Competition, Volleyball college Cup (2023)

Peer Leader & Director | SCUPI Peer Advisor Program   Chengdu, China | May 2022-Jun 2024
Peer Advisor | SCUPI Pittsburgh Institute Peer Advisor Program   Chengdu, China | May 2021-Jun 2022

SKILLS & HOBBIES

Skills: Python, MATLAB, C++, Minitab, R, SIMUL8, Tableau, SPSS, and GitHub Copilot
Languages: English (TOEFL: 107, Reading: 28, Listening: 28, Speaking: 26 and Writing: 25) and Mandarin (native)
Hobbies: Volleyball, K-POP music, and drums (China's grade-9 drum kit exam)