

# Zoe Zhou

[Email](#) | [LinkedIn](#) | [Website](#) | [GitHub](#)

## EDUCATION

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[Vrije Universiteit Amsterdam](#), BS in Computer Science

*Sept 2023 – June 2026 (Estimated)*

- **GPA:** 8.8/10 (top 10 %)
- **Relevant Coursework:** **Python, CUDA, Linux:** Computer Networks, Machine Learning; **Human-centered Design, User Studies:** Human-Computer Interaction; **C++**, **Computer Architecture:** Operating Systems, Computer Programming, Computer Organization; **Mathematics:** Calculus, Linear Algebra, Statistical Methods

## INTERNSHIP EXPERIENCE

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[Social AI Lab](#), Computer Science Department, [Vrije Universiteit Amsterdam](#)

*June 2025 – Dec 2025 (On-site)*

**Project:** [VR2Arm: VR Teleoperation for Real-Robot Manipulation](#)

- **Real-time robot control:** Deployed a VR controller-based teleoperation interface from stretch. Enabled real-time object manipulation (grasping, moving, rotation). Tested, iterated, and refined on a real robotic arm.
- **User study design:** Designed and conducted a human-robot interaction study ( $N = 25$ ). Collected and analyzed usability and workload metrics using NASA-TLX, SUS, and qualitative feedback.
- **Teamwork and problem-solving:** Proactively collaborated with researchers and lab engineers. Scoped and resolved technical problems. Fully documented and open-sourced the system.

[ImCare Biotech](#), Doylestown, PA, USA

*July 2024 – Sept 2024 (Remote)*

**Project:** Synthetic Data Augmentation for Early-Stage Liver Cancer Detection

- **Synthetic data generation:** Improved missing data handling via KNN imputation, increasing predictive sensitivity by 12%.
- **Data augmentation:** Applied SMOTE to augment blended data. Developed a logistic regression model using PyTorch, achieving an AUC-ROC of 0.87.
- **Impact:** Enabled an estimated 680 additional early-stage detections per 100k screenings.

## PUBLICATIONS

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- Zhou, Y., Hou, M., Baraka, K. "[Static Is Not Enough: A Comparative Study of VR and SpaceMouse in Static and Dynamic Teleoperation Tasks](#)", In the HRI'26 Late-Breaking Reports, accepted in January, 2026.

## AWARD

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**1ST PLACE** - 4th Annual [Hack4her](#) Event (*Track: Ethical AI Agents for Public Services*)

*June 13-15, 2025*

- **Won 1st Place** at a national women-in-tech hackathon for students.
- Designed an ethical AI system to automate childcare allowance approval processes.

## TEACHING

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**Teaching Assistant** for [Automata and Complexity](#) & [Probability and Statistics](#)

*Feb 2026 – May 2026 (Scheduled)*

**University:** Vrije Universiteit Amsterdam

- **Teaching:** Lead weekly tutorials, assist with exercises, and support students in courses involved.

## SKILLS

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- **Programming & Technical Stack:** Python, C++, C; Unity, Linux
- **Hardware & Platforms:** Meta Quest 3 (VR controllers), Franka Emika Panda, SpaceMouse