

# Zoe Zhou

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## 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** *June 13-15, 2025*
- Won 1st Place for developing an ethical AI solution for automating childcare allowance approvals.

## 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