

CHI WANG

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EDUCATION

- University of Chicago** Sep. 2024 – Present
M.S. in Computer Science (Pre-Doc) Chicago, IL, USA
- Advisor: Ken Nakagaki
 - Member of the *Actuated Experience Lab (AxLab)*
 - Overall Grades: 3.84/4.0
- Zhejiang University** Sep. 2020 - July 2024
B.E. in Vehicle Engineering Hangzhou, China
- Selected to *Morningside Scholars Program (0.6%)*
 - Member of *Intensive Training Program of Innovation and Entrepreneurship*
 - Overall Grades: 3.77/4.0
- University of California, Berkeley** Jan. 2023 - May 2023
Berkeley Global Access Program Berkeley, CA
- Coursework: CS61B, CS61C, CS188. Overall Grades: A

PUBLICATION

- **Chi Wang**, Clara Cui, Ken Nakagaki
Clusterables: Programmable Matter via Magnetically Actuated Clusters of mm-Scale Particles
In progress
- Zhang, Ruibin, Junxiao Lin, Yuze Wu, Yuman Gao, **Chi Wang**, Chao Xu, Yanjun Cao, and Fei Gao.
Model-based planning and control for terrestrial-aerial bimodal vehicles with passive wheels
In *2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pp. 1070-1077. IEEE, 2023.
Paper: <https://doi.org/10.1109/IROS55552.2023.10342188> , Video: Youtube

RESEARCH EXPERIENCE

- Training of Memory Bearing Soft Matter** Oct. 2025 – Present
Advisor: Adi Advani, Heinrich Jaeger Jaeger Lab, University of Chicago
- Develop a hardware platform that apply deformation to the material at its boundaries
- Programmable Matter via Magnetically Actuated Clusters of mm-Scale Particles for Interaction** Sept. 2024 – Present
Advisor: Ken Nakagaki Actuated Experience Lab (AxLab), University of Chicago
- Designing and prototyping 2.5D programmable clusters at millimeter scale
 - Investigating passive material manipulation using programmable magnetic fields
- Design of Transformable Terrestrial-Aerial Bimodal Vehicles** Oct. 2023 - Present
Advisor: Yanjun Cao ZJU Fast Lab @ Huzhou Institute of Zhejiang University
- Path planning for transformable TABV ground locomotion
 - Developing a control system for seamless ground-to-air transitions
- Control Policy Unlearning via Corrective Feedback** Jul. 2023 - Aug. 2023
Advisor: Sarah Sebo HRI Lab @ University of Chicago
- Improved a simulation environment for arm testing, enhancing trial efficiency
 - Designed controller for Panda Arm, enabling corrective feedback for arm control
 - Implemented Polymetis to enhance consistency

Control of Terrestrial-Aerial Bimodal Vehicles (TABV)

Jun. 2022 - Sep. 2022

Advisor: Fei Gao

ZJU Fast Lab @ Huzhou Insitute of Zhejiang University

- Formulated a unified TABV Dynamics model applicable for both aerial and terrestrial operations
- Validated the system's differential flatness, ensuring predictable control behavior
- Implemented Controller for accurate trajectory tracking
- Published on **IROS 2023**

HONORS & AWARDS

- Morningside Graduate Scholarships, \$80,000, University of Chicago 2024
- Outstanding Graduate of Zhejiang University 2024
- Robocon 2022 International Design Contest (Semi Finals) 2022
- Creative Robot Competition of Zhejiang University, 1st Place 2022
- The First Prize Scholarship from Zhejiang University(3%) 2021 & 2022
- Deep Student Research Training Program (Outstanding Awards) 2021
- Robot Competition of Zhejiang University (1st in 95 teams) 2021

LEADERSHIP & COMMUNITY SERVICE

Student Association of Unmanned Systems

Oct. 2020 - June 2024

Member → Department Leader → **President** → Senior Advisor

Zhejiang University

- Delivered lectures on ROS, Arduino, Search Algorithms, 3D Modeling and Printing to more than 50 students.
- Spearheaded public events to raise awareness and interest in robotics research

Morningside Cultural China Scholars Program (CCSP)

May 2022 - June 2024

Vice President of 14th Cohort

Zhejiang University

- Leader & Organizer of the *Morningside CCSP US Visit Group*, engaged with over 50 guests, including Presidents of AAAS, MIT, Harvard, and Yale, etc. during an intensive 20-day visit.
- Focus on cultivating leadership and global perspectives while rooted in an understanding of Chinese culture.