

Zhuoyuan (Joey) YU

Email: yuzhuoyuan@u.nus.edu | [Website](#) | Tel: +86 15929286081

Research interests: Real to Sim to Real, Robot Learning, World Model & Vision Language Action Models

EDUCATION

National University of Singapore	GPA: 5.0 / 5.0	Honours (Highest Distinction)	<i>Singapore</i>
Major: M.Eng. in Mechanical Engineering (By Research)			08/2023 - 05/2025
Research focus: Robotics, Multi-agent Deep Reinforcement Learning, Control			
Northwestern Polytechnical University	GPA: 83.1%		<i>Xi'an, China</i>
Major: B.Eng. in Aircraft Design and Engineering			09/2019 - 07/2023
- Scholarship: Second Prize Scholarship - Excellent Student Leader - NPU School of Aeronautics Student Union President			04/2021 - 06/2022

WORK EXPERIENCE

➤ MARS Lab, Nanyang Technological University	09/2026 - Present
➤ Dexmal – Research Intern	11/2025 - 08/2026
➤ University of Auckland – Research Associate	08/2025 - 10/2025
➤ Agency for Science, Technology and Research	05/2024 - 01/2025

PUBLICATIONS (* corresponding author)

- Yu, Z.**, Guo, H*, Chew, C. M., Adiwahono, A. H., Chan, J., Shong, B. W. T., & Yau, W. Y. (2025). Multi-Robot Reliable Navigation in Uncertain Topological Environments with Graph Attention Networks. *IEEE Robotics and Automation Letters*.
- Zhang, Y., Li, M., Shang, Y., **Yu, Z.**, Yan, C., Xiao, J., & Feroskhan, M.* (2026) Contrastive Reinforcement Learning for Visuomotor Policies in 3D radiance Fields. (under submit)
- Ma, Z., Tang, Z., Wang, R., & **Yu, Z.** (2023, March). Research progress in numerical simulation of aircraft wing flow field. In *Journal of Physics: Conference Series* (Vol. 2457, No. 1, p. 012047). IOP Publishing.

COMMUNITY SERVICE & CONFERENCE

Reviewer of AAAI, IEEE Trans on Emerging Topics in Computational Intelligence, IEEE RA-L, IROS, Applied Sciences

AWARDS

- National College Students Mechanical Design Innovation Competition** 08/2022
[Provincial Second Prize] Bionic Flapping Aircraft
- The “Challenge Cup” China Innovation and Entrepreneurship Competition** 07/2022
[Provincial Gold Award] | High-resolution Laser 3D Radar
- Mathematical Contest in Modeling (MCM)** 05/2022
[Honorable Mention]
- National College Students Market Research and Analysis Contest** 04/2022
[Provincial First Prize] | Modeling and Data Analysis and Calculation with SPSS
- China International Internet+ College Students Innovation and Entrepreneurship Competition** 10/2021
[National Gold Award] | Small Heavy Oil Aero-Engine