

# Zihan Yang

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## About Me

I am a master's student at School of Aeronautic Science and Engineering, Beihang University, Beijing, China. My research interest lies in the intersection of machine learning and robotics, with a focus on deep learning and its applications in robotics. I am looking forward to exploring reinforcement learning and generative AI for robotics in future researches.

In 2023, I received my B.Eng. in Material Science and Engineering from Northwestern Polytechnical University, Xi'an, China, and Queen Mary University of London, London, UK, under a Sino-foreign cooperative education program. I was awarded the First Class Honors in my degree by Queen Mary University of London.

## Education

Northwestern Polytechnical University, B.Eng. in Material Science and Engineering	Sept 2019 - June 2023
Queen Mary University of London B.Eng. in Material Science and Engineering (Sino-foreign cooperative education)	Sept 2019 - June 2023
<ul style="list-style-type: none"><li>GPA: 3.6/4.0</li><li>First Class Honors.</li></ul>	
Beihang University, M.S. in Aerospace Science and Technology	Sept 2023 - June 2026 (expected)
<ul style="list-style-type: none"><li>GPA: 3.8/4.0, supervised by Prof.Kexin Guo, Prof.Xiang Yu, and Prof.Lei Guo</li></ul>	

## Publications

(\* equal contribution)

- [1] **Zihan Yang**, J. Jia, M. Wang, Y. Liu, K. Guo, and X. Yu, "Feedback-calibrated meta-adaptation for non-structural environments," *Under Review*, 2025.
- [2] J. Jia\*, M. Wang\*, **Zihan Yang**, B. Yang, Y. Liu, K. Guo, and X. Yu, "Learning-based observer for coupled disturbance," 2025. arXiv: 2407.13229 [cs.LG].
- [3] J. Jia\*, **Zihan Yang**\*, M. Wang, K. Guo, J. Yang, X. Yu, and L. Guo, "Feedback favors the generalization of neural ODEs," in *The Thirteenth International Conference on Learning Representations*, 2025.
- [4] K. Guo, **Zihan Yang**, J. Jia, Y. Liu, and X. Yu, "Optimizing control-friendly trajectories with unsupervised residual learning," *Under Review*, 2024.
- [5] **Zihan Yang**, J. Jia, Y. Liu, K. Guo, X. Yu, and L. Guo, "TRACE: Trajectory refinement with control error enables safe and accurate maneuvers," in *2024 IEEE 18th International Conference on Control and Automation (ICCA)*, 2024.

## Awards

Best Student Paper Award (First Author), IEEE International Conference on Control and Automation (ICCA), Reykjavík, Iceland.	June, 2024
Bachelor of Engineering with Honors, First Class in Material Science and Engineering, Queen Mary University of London, London, UK.	June, 2023

## Funds

Second-Class Scholarship Beihang University, Beijing, China.	2024
Second-Class Scholarship Beihang University, Beijing, China.	2023

## Skills

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**Coding:** Python, Matlab/Simulink,  $\text{\LaTeX}$ , C/C++ (basic), HTML/CSS(basic)

**Language:** Mandarin Chinese (native), English (fluent), Japanese (basic)

**Hardware:** Experienced in building quadrotor hardware modules

**Misc.:** Electric guitar, skiing, badminton, swimming...