

# Zihan Yang

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## About Me

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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.

## Education

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**Northwestern Polytechnical University**, B.Eng. in Material Science and Engineering Sept 2019 - June 2023

- GPA: 3.6/4.0

**Beihang University**, M.S. in Aerospace Science and Technology Sept 2023 - June 2026 (expected)

- GPA: 3.8/4.0, supervised by Prof.Kexin Guo, Prof.Xiang Yu, and Prof.Lei Guo

## Publications

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(\* 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

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**Best Student Paper Award (First Author)**, *IEEE International Conference on Control and Automation (ICCA)*, Reykjavík, Iceland. 2024

## 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...