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.

Education

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

(* 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.RO].

[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. — 2024

Skills

Coding: Python, Matlab/Simulink, 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...