

Dongxuan Zhu

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Education

- The Chinese University of Hong Kong**, Ph.D. Aug. 2024 - Present
- Department of Systems Engineering and Engineering Management
 - Supervised by Prof. Viet Anh Nguyen
- Nanjing University**, M.S. in Mathematics Sep. 2021 - Jun. 2024
- School of Mathematics
 - Supervised by Prof. Houcai Shen & Prof. Caihua Chen
- Sichuan University**, B.S. in Mathematics and Applied Mathematics Sep. 2017 - Jun. 2021
- WUYUZHANG Honors College
 - GPA: 3.75/4.0

Publications

- D. Zhu, L. Tran, A. Cheung, M-C. Yue, and V. A. Nguyen, “Exploring diverse generation paths via inference-time Stiefel activation steering,” in International Conference on Learning Representations(ICLR), 2026.
- L. Tran, D. Zhu, M-C. Yue, and V. A. Nguyen, “Test-time diverse reasoning by Riemannian activation steering,” in AAAI, 2026.

Preprints

- D. Zhu, W. Huang, C. Chen, “Boosting accelerated proximal gradient method with adaptive sampling for stochastic composite optimization,” under review

Experience

- Internship**, Ant Group – Hangzhou, China Nov. 2023 - Mar. 2024
- Designed and implemented scalable first-order optimization methods for large-scale linear programming.
 - Deployed optimization algorithms to production business workflows in finance and risk control.

Honors

- The First Prize Scholarship (2021) and The Third Prize Scholarship (2022) in Nanjing University;
- Individual Scholarship (2018&2019) and The Third Prize Scholarship(2020) in Sichuan University;
- Won Scholarship in honor of outstanding performance in CBL Summer Institute at Oriel Oxford & Cambridge Summer Institute in 2019;
- Awards for volunteer activities and students’ association activities.

Skills

Programming: Python, MATLAB

Technologies: Pytorch, Optimization solvers (e.g., Gurobi, IPOPT, MOSEK)

Languages: Mandarin (native), English (fluent)