Chenxiao Gao

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Education

Georgia Institute of Technology Sep 2025 – Present
Ph.D. in Machine Learning; Advisor: Prof. Bo Dai *Atlanta, GA*

Nanjing University Sep 2022 – Jun 2025
M.S. in Artificial Intelligence; Advisor: Prof. Zongzhang Zhang *Nanjing, China*

Nanjing University Sep 2018 – Jun 2022
B.S. in Computer Science; GPA: 4.59/5.0; Rank: 5/77 *Nanjing, China*

Selected Publications

Full list: about.gaocx.io/publications/ | Google Scholar. (* denotes equal contribution)

- Haitong Ma*, Chenxiao Gao*, Rushi Qiang*, Na Li, Bo Dai. RLE-Bench: A Qualifying Exam for Coding Agents as Robot Learning Engineers. *CoRL Workshop on Agentic Robotics*, 2026. [webpage, paper link].
- Feiyang Wu, Chenxiao Gao, Chen Yang, Ye Zhao, Bo Dai, Anqi Wu. Learning Expressive and Compositional Motion Representation via Spectral Skills. *IROS Workshop on Compositional and Modular Learning in the Era of Scaling Robotics*, 2026 (**Best Paper Award**). [webpage, paper link].
- Changhao Li, Yuchen Zhuang, Chenxiao Gao, Haotian Sun, Rushi Qiang, Chao Zhang, Bo Dai. Exploration-Driven Optimization for Test-Time Large Language Model Reasoning. *TMLR*, 2026. [paper link].
- Chenxiao Gao, Edward Chen, Tianyi Chen, Bo Dai. FlowRL: A Taxonomy and Modular Framework for Reinforcement Learning with Diffusion Policies. *RLC*, 2026. [paper link].
- Chenxiao Gao, Haotian Sun, Na Li, Dale Schuurmans, Bo Dai. Spectral Representation-based Reinforcement Learning. *JMLR*, 2026 (to appear). [webpage, paper link].
- Kimi Team (including Chenxiao Gao). Kimi K2: Open Agentic Intelligence. Technical report, 2025. [webpage, paper link].
- Chenxiao Gao, Chenyang Wu, Mingjun Cao, Chenjun Xiao, Yang Yu, Zongzhang Zhang. Behavior-Regularized Diffusion Policy Optimization for Offline Reinforcement Learning. *ICML*, 2025. [webpage].

Working Experiences

Moonshot.AI Jun 2025 – Aug 2025
Machine Learning Engineer Intern

- Developed a reinforcement learning pipeline for interactive tool use and contributed to the post-training of **Kimi K2**, an open-weight mixture-of-experts language model with one trillion total parameters. [webpage]

ByteDance Jul 2021 – Nov 2021
Machine Learning Engineer Intern

- Developed and deployed game-playing agents combining reinforcement learning with self-supervised imitation learning, improving performance over baseline algorithms.
- Injected human priors into deep RL via decision-tree agent initialization for hard-exploration tasks.

Academic Experiences

Harvard University Jun 2026 – Present
Research Fellow; Advisor: Prof. Na Li

- Lead the development of **Kinex**, an open-source robotics coding agent that adapts to any robot from a text description, runs tasks autonomously in simulation or on ROS 2 hardware, and learns reusable skills from each run. [webpage]
- Co-developed **RLE-Bench** to evaluate coding agents across interactive control, policy development, perception and estimation, and mechanical design under constrained time, interaction, and compute budgets. Accepted to the CoRL 2026 Workshop on Agentic Robotics.

The Chinese University of Hong Kong Feb 2024 – Sep 2024
Research Assistant; Advisors: Prof. Chenjun Xiao and Prof. Bo Dai

- Proposed **Diff-SR**, bridging diffusion models and spectral representation learning to yield dynamics-aware features for sample-efficient RL under full and partial observability. Published at NeurIPS 2024.

Nanjing University Sep 2022 – Jun 2025
Research Assistant; Advisor: Prof. Zongzhang Zhang

- Proposed **policy rehearsing**, which learns diverse dynamics models from limited offline data to train context-conditioned policies that generalize to unseen environments. Published at ICLR 2024.
- Developed advantage-conditioned Decision Transformers for robust continuous control (**ACT**, AAAI 2024) and regret-conditioned sequence models that distill and improve black-box optimizers (**RIBBO**, IJCAI 2025).

Skills

- **Research Topics:** LLM Agents, Reinforcement Learning, Robot Learning, Diffusion Models, Representation Learning.
- **Languages:** Python, C/C++, HTML/CSS, JavaScript/TypeScript.
- **Developer Tools:** Git, AWS, Linux/Unix, PyTorch, JAX, LaTeX, MATLAB.

Awards & Honors

2026 **Best Paper Award**, CoRL Workshop on Compositional Generalization for Real-World Robot Learning

2026 **Best Paper Award**, IROS Workshop on Compositional and Modular Learning in the Era of Scaling Robotics

2025 **Outstanding Master's Graduate**, Nanjing University

2022, 2023 **Graduate Academic Scholarship**, top 20%

2021 **National Scholarship**, top 0.1%

2021 **Outstanding Student**, Nanjing University, top 10%

2020 **First-Class Chow Tai Fook Scholarship**, top 0.3%

2020 **People's Scholarship**, top 30%

2019 **First-Class Scholarship, School of Artificial Intelligence**, top 3%