Ruiqian Nai

Beijing nrq22@mails.tsinghua.edu.cn ruiqiannai.github.io Scholar GitHub

Education

Tsinghua University *Sep 2022 – Present*
Institute for Interdisciplinary Information Sciences
Ph.D. student in Computer Science, advised by Prof. **Yang Gao**.

Tsinghua University *Sep 2018 – June 2022*
Department of Automation
B.S. in Automation

- GPA: top 10%
- Outstanding Graduate Award (top 15%)

Research Experience

Applied Scientist Intern *San Francisco, US*
Amazon FAR (Frontier AI & Robotics) *Apr. 2026 – Present*
Advised by Guanya Shi, C. Karen Liu, Carmelo Sferrazza, and Rocky Duan.

- Research topics: humanoid whole-body manipulation.

Publications

Humanoid Manipulation Interface: Humanoid Whole-Body Manipulation from Robot-Free Demonstrations Preprint, 2026

Ruiqian Nai*, Boyuan Zheng*, Junming Zhao*, Haodong Zhu, Sicong Dai, Zunhao Chen, Yihang Hu, Yingdong Hu, Tong Zhang, Chuan Wen, Yang Gao

OneTwoVLA: A Unified Vision-Language-Action Model with Adaptive Reasoning ICLR, 2026

Fanqi Lin*, **Ruiqian Nai***, Yingdong Hu*, Jiacheng You, Junming Zhao, Yang Gao

HuB: Learning Extreme Humanoid Balance CoRL oral, 2025

Tong Zhang*, Boyuan Zheng*, **Ruiqian Nai**, Yingdong Hu, Yen-Jen Wang, Geng Chen, Fanqi Lin, Jiongye Li, Chuye Hong, Koushil Sreenath, Yang Gao

Fine-Tuning Hard-to-Simulate Objectives for Quadruped Locomotion: A Case Study on Total Power Saving ICRA, 2025

Ruiqian Nai, Jiacheng You, Liu Cao, Hanchen Cui, Shiyuan Zhang, Huazhe Xu, Yang Gao

Revisiting Disentanglement in Downstream Tasks: A Study on Its Necessity for Abstract Visual Reasoning AAAI, 2024

Ruiqian Nai, Zixin Wen, Ji Li, Yuanzhi Li, Yang Gao

An Empirical Study on Disentanglement of Negative-free Contrastive Learning NeurIPS, 2022

Jinkun Cao, **Ruiqian Nai**, Qing Yang, Jialei Huang, Yang Gao

Real Additive Margin Softmax for Speaker Verification ICASSP, 2022

Lantian Li, **Ruiqian Nai**, Dong Wang

Industry Experience

Algorithm Engineer Intern *Beijing*
AI Lab, ByteDance *July 2021 – Sep 2021*

- Engaged in single-channel dual-speaker speech recognition related to telephone channels, significantly improve performance: reduced WER from 15% to 11%.