Yitong Li

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Education

Tsinghua University *Bachelor of Science and Bachelor of Engineering* — *Sept 2021 – July 2025*

- **Major:** Mathematics and Physics, Measurement Control Technology and Instruments

The University of Hong Kong *Doctor of Philosophy* — *Sept 2025 – July 2029 (expected)*

- **Major:** Computer Science **Advisor:** Prof. Ping Luo

Selected Publications

Agent RSI

SoL-Pi: Recursively Scaling Auto-Research Loops for Efficient Agent Harness

Haozhe Liu*, Tian Ye*, Sensen Gao†, Qihang Cao†, **Yitong Li**†, . . . , Enze Xie, Song Han. *arXiv preprint arXiv:2609.20519, 2026* ***[★ 3,501 GitHub stars]***

Sol Video Inference Engine: Agent-Native Full-Stack Acceleration Framework for Efficient Video Generation

Yitong Li, Junsong Chen, Haopeng Li, Haozhe Liu, Jincheng Yu, Ligeng Zhu, Ping Luo, Song Han, Enze Xie. *arXiv preprint arXiv:2606.23743, 2026* ***[Selected for Scale AI RSI-Bench]*** ***[★ 9,399 GitHub stars]***

Robotics

CodeDiffuser: Attention-Enhanced Diffusion Policy via VLM-Generated Code for Instruction Ambiguity

Guang Yin*, **Yitong Li***, Yixuan Wang*, Dale McConachie, Paarth Shah, Kunimatsu Hashimoto, Huan Zhang, Katherine Liu, Yunzhu Li. *Robotics: Science and Systems (RSS), 2025*

Neural Dynamics Augmented Diffusion Policy

Ruihai Wu*, Haozhe Chen*, Mingtong Zhang*, Haoran Lu, **Yitong Li**, Yunzhu Li. *IEEE International Conference on Robotics and Automation (ICRA), 2025*

Broadcasting Support Relations Recursively from Local Dynamics for Object Retrieval in Clutters

Yitong Li*, Ruihai Wu*, Haoran Lu, Chuanruo Ning, Yan Shen, Guanqi Zhan, Hao Dong. *Robotics: Science and Systems (RSS), 2024*

Post-training / Pre-training

Asymmetric Scaling of Diffusion Reinforcement Learning via Low-Cost Rollout Policies

Yitong Li, Junsong Chen, Shuchen Xue, Pengcuo Zeren, Siyuan Fu, Dinghao Yang, Yangyang Tang, Junjie Bai, Ping Luo, Song Han, Enze Xie. *arXiv preprint arXiv:2604.06916, 2026*

HunyuanVideo 1.5 Technical Report

Bing Wu, Chang Zou, Changlin Li, et al. *arXiv preprint arXiv:2511.18870, 2025*

Captain Safari: A World Engine with Pose-Aligned 3D Memory

Yu-Cheng Chou, Xingrui Wang, **Yitong Li**, Jiahao Wang, Hanting Liu, Cihang Xie, Alan Yuille, Junfei Xiao. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026*

Vision-Language-Vision Auto-Encoder: Scalable Knowledge Distillation from Diffusion Models

Tiezheng Zhang, **Yitong Li**, Yu-Cheng Chou, Jieneng Chen, Alan L. Yuille, Chen Wei, Junfei Xiao. *Conference on Neural Information Processing Systems (NeurIPS), 2025*

* Equal contribution. † Core contributors.

Internship Experience

Research Intern – Efficient Generative Models — *NVIDIA Research, Efficient AI Team*
Advised by Enze Xie and Prof. Song Han — *Dec 2025 – Present*

Research Intern – Video Foundation Model Training — *Tencent Hunyuan, Video Foundation Model Team*
Advised by Qi Tian and Zhao Zhong — *Sept 2025 – Dec 2025*

Research Intern – Robotic Coding Agents — *Columbia University*
Advised by Prof. Yunzhu Li and Prof. Fei-Fei Li — *Aug 2024 – Jan 2025*