Han Lin

CONTACT

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https://hl-hanlin.github.io/ https://github.com/HL-hanlin
https://scholar.google.com/citations?user=Z9s5gHEAAAAJ

INTERESTS

Multimodal learning, language-guided robotics
Theory-grounded algorithms for efficient machine learning

SKILLS

Programming Languages: Python, C/C++, MATLAB, R, MySQL, LaTeX
Machine Learning Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn

EDUCATION

University of North Carolina at Chapel Hill 2023 - Exp. 2028
Ph.D. in Computer Science, advised by Prof. Mohit Bansal

Columbia University, New York, NY
M.S. in Computer Science (Machine Learning Track) 2021 - 2022
M.S. in Financial Engineering 2018 - 2019

Central University of Finance and Economics, Beijing, China 2014 - 2018
B.S. in Financial Engineering

PUBLICATIONS

1. **Supervised Masked Knowledge Distillation for Few-Shot Transformers**
Han Lin*, Guangxing Han*, Jiawei Ma, Shiyuan Huang, Xudong Lin, Shih-Fu Chang
In Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023

2. **Active Tactile Exploration for 3D Object Recognition**
Jingxi Xu*, **Han Lin***, Shuran Song, Matei Ciocarlie
In IEEE International Conference on Robotics and Automation (**ICRA**), 2023

3. **From block-Toeplitz matrices to differential equations on graphs: towards a general theory for scalable masked Transformers**
Krzysztof Choromanski*, **Han Lin***, Haoxian Chen*, Tianyi Zhang, Arijit Sehanobish, Valerii Likhosherstov, Jack Parker-Holder, Tamas Sarlos, Adrian Weller, Thomas Weingarten
In 39th International Conference on Machine Learning **(ICML)**, 2022

4. **Hybrid Random Features**
Krzysztof Choromanski*, **Han Lin***, Haoxian Chen*, Yuanzhe Ma*, Arijit Sehanobish*, Deepali Jain, Michael Ryoo, Jake Varley, Andy Zeng, Valerii Likhosherstov, Dmitry Kalashnikov, Vikas Sindhwani, Adrian Weller
In 10th International Conference on Learning Representations **(ICLR)**, 2022

5. **Demystifying Orthogonal Monte Carlo and Beyond**
Han Lin*, Haoxian Chen*, Tianyi Zhang, Clement Laroche, Krzysztof Choromanski
In 33rd Advances in Neural Information Processing Systems **(NeurIPS)**, 2020

PREPRINTS

1. **Efficient Graph Field Integrators Meet Point Clouds**
Krzysztof Choromanski*, Arijit Sehanobish*, **Han Lin***, Yunfan Zhao*, Eli Berger, Alvin Pan, Tetiana Parshakova, Tianyi Zhang, David Watkins, Valerii Likhosherstov, Somnath Basu Roy Chowdhury, Avinava Dubey, Deepali Jain, Tamas Sarlos, Snigdha Chaturvedi, Adrian Weller

SERVICES

Conference Reviewer: ICML 2022, 2023; NeurIPS 2022, 2023
Conference Volunteer: Robotics: Science and Systems (RSS) 2022

TEACHING	COMS 4231 Analysis of Algorithms	2022
	COMS 4732 Computer Vision II: Learning	2022
	COMS 4721 Machine Learning for Data Science	2022
	QMSS 5073 Machine Learning for Social Science	2021
	IEOR 4007 Optimization Models & Methods for FE	2019
	IEOR 4418 Transportation Analytics & Logistics	2019
RESEARCH PROGRAM	Cornell, Maryland, Max Planck Pre-doctoral Research School	2022
WORK EXPERIENCE	**China Merchant Securities**	Shenzhen, China
	Option Market Making Quant Trader, Full Time	2020 - 2021