

# Jiahang JIANG

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## EDUCATION

<b>Hong Kong University of Science and Technology</b> <i>Ph.D. Candidate in Data Science and Analytics, Academy of Interdisciplinary Studies</i> <i>Research Interests in Interpretable Machine Learning, Sequential Recommendation, Dataset Distillation</i>	GPA: 3.8/4.3 Sep. 2021 - Present
<b>Hong Kong University of Science and Technology</b> <i>M.Sc. in Big Data Technology, School of Engineering</i>	GPA: 3.8/4.3 Sep. 2020 - Jun. 2021
<b>Nanjing University of Science and Technology</b> <i>B.Eng. in Intelligent Science and Technology, School of Computer Science and Engineering</i>	GPA: 3.7/4.0 (Ranking: 2/74) Sep. 2016 - Jun. 2020

## PREPRINTS AND PUBLICATIONS

(\*: These authors contributed equally to the manuscript.)

- [1] **Jiahang JIANG\***, Liang Ding\*, Tianyang Hu\*, Donghao Li\*, Wenjia Wang\*, Yuan Yao\*. "Random Smoothing Regularization in Kernel Gradient Descent Learning." *Journal of Machine Learning Research* 25:284 (2024): 1-88.
- [2] **Jiahang JIANG\***, Linghua TANG\*, Mudi DUAN, Mingchao LI, Songtao YUAN, Qiang CHEN. "Automated Detection Algorithm of Macular Fovea in SD-OCT Images." in *Proceedings of the 17th China Conference on Machine Learning*, pages 43, 2019.
- [3] **Jiahang JIANG**, Wenjia WANG, Yun ZHANG, Guilin LI. "MDR: Boosting Sequential Recommendations with Dual-Domain Sufficient Embedding." *Submitted to IEEE International Conference on Data Mining*.
- [4] **Jiahang JIANG**, Wenjia WANG. "Understanding Self-Supervised Dataset Distillation via Alignment and Uniformity." *To be Submitted to International Conference on Learning Representations*.
- [5] Qingwen ZHANG, Wenjia WANG, **Jiahang JIANG**. "Uniform Fairness-aware Contextual Bandits." *To be Submitted to Journal of Machine Learning Research*.

## INTERNSHIP

<b>Weixin Group, Tencent</b> <i>Research Intern in WeChat Pay</i>	Shenzhen, China Aug. 2024 - Mar. 2025
<ul style="list-style-type: none"><li>Developed advanced user behavior sequence modeling for commercial transactions (patent-pending), improving fraud detection by over 20% in top 0.01% recall rate through online and offline evaluations.</li><li>Fine-tuned large language models for payment data analysis, enabling characterization of fraud-induced user behaviors.</li><li>Implemented advanced feature engineering for Key Account merchants, achieving over 92% accuracy in complaint category classification.</li></ul>	
<b>New Energy Vehicle Research Institute, YueBoo Power System</b> <i>Research Intern in Intelligent Driving and Perception Research Group</i>	Nanjing, China Jul. 2020 - Aug. 2020
<ul style="list-style-type: none"><li>Developed and optimized object detection algorithms for autonomous driving.</li></ul>	

## TEACHING ASSISTANT

DSAA5009 Deep Learning in Data Science (Spring 2023)	HKUST
UFUG1105 Honors Calculus I (Fall 2023)	HKUST

## SKILLS

**Language:** English (Fluent), Mandarin (Native)  
**Programming Languages:** Python, SQL, C/C++, Matlab, R  
**Machine Learning Frameworks:** TensorFlow, PyTorch  
**Big Data Tools:** PySpark, Hadoop

**Backend Frameworks:** Django

**Visualization Tools:** Tableau

## AWARDS

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International Chinese Statistical Association Honorable Mention Poster Award, July 2023

Outstanding Graduate of Nanjing University of Science and Technology, June 2020

Third Prize in 5th “Internet+” Entrepreneurship and Innovation Competition, Sep 2019

Third Prize in 10th “Lanqiao Cup” C/C++ Programming Design Competition, Mar 2019

Merit Student of Nanjing University of Science and Technology, Oct 2018/2019

First Prize Scholarship of Academic Year, Sep 2017/2019/2020