JINGHUAI ZHANG

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RESEARCH INTERESTS

AI Security and Privacy, Autonomous Driving and Self-supervised Learning.

EDUCATION

2021-2023	Duke University – Durham, NC
(expected)	M.S., Computer Science (GPA: 4.0/4.0, top 1%)
	Advisor: Prof. Neil Zhenqiang Gong
2016-2020	City University of Hong Kong – Hong Kong, China
	B.S., Computer Science (CGPA: 3.93/4.3, top 5%, Major GPA:4.09/4.3)
	Advisor: Prof. Jianping Wang

Honors and Scholarships

2018-2020	HKSAR Government Scholarship Fund Academic Award with 160,000 HKD Scholarship
2018-2020	Hong Kong, China-Asia-Pacific Economic Cooperation Scholarship
2020	Hong Kong Computer Society Student Sponsorship
2020	Department of Computer Science Outstanding Student Scholarship
2020	The first class honor graduate from City University of Hong Kong
2017-2020	Dean's List of City University of Hong Kong
2015	Second Prize in Provincial Mathematical competition (Zhejiang, China)

Publications

- 1. Yicheng Liu*, **Jinghuai Zhang***, Liangji Fang, Qinhong Jiang, and Bolei Zhou. "Multimodal Motion Prediction with Stacked Transformer". In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021. (*co-first authors with equal contributions)
- 2. Yifan Zhang*, **Jinghuai Zhang***, Jindi Zhang, Jianping Wang, Kejie Lu and Jeff Hong. "A novel learning framework for sampling-based motion planning in autonomous driving". In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI-Oral)*, 2020. (*co-first authors with equal contributions)
- 3. Zixuan Huang*, **Jinghuai Zhang***, Jing Liao. "Style Mixer: Semantic-aware Multi-Style Transfer Network". In *Pacific Graphics & Computer Graphics Forum*, 2019. (*co-first authors with equal contributions)
- 4. Yifan Zhang, **Jinghuai Zhang**, Jindi Zhang, Jianping Wang, Kejie Lu and Jeff Hong. "Integrating Algorithmic Sampling-Based Motion Planning with Learning in Autonomous Driving". In *ACM Transactions on Intelligent Systems and Technology (TIST)*, 2022.

PROJECTS

2022	Data Poisoning based Backdoor Attacks to Contrastive Learning. (First author, under review)
2022	Backdoor Attack to Scene Understanding in 3D Vision. (First author, under review)
2022	Certified Robustness Guarantees for Point Cloud Models. (First author, under review)
2020	Motion Planning in Autonomous Driving. (HK government research proposal writing experi-
	ence under Prof.Jianping Wang)

SKILLS AND QUALIFICATIONS

Standard Exam: GRE: 334 (verbal: 164 quantitative: 170).

Programming languages: Python, C++, Matlab, Java, HTML, SQL.

TEACHING EXPERIENCE

Teaching Assistant, Duke University

Fall 2022 COMPSCI 230 – Discrete Mathematics for Computer Science Spring 2022 COMPSCI 230 – Discrete Mathematics for Computer Science

INDUSTRY EXPERIENCE

07/2020-04/2021 Autonomous Driving Group of Sensetime Research

Intern, Mentor: Liangji Fang

Collect a large-scale motion forecasting dataset (containing 1-2 million cases) with fine-grained intention annotations. Predict intentions and trajectories of vehicles and VRUs with the collected dataset.