Hongda Jiang

Contact Information

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Google Scholar: scholar.google.com/citations?user=df0N3-UAAAAJ

Education

PhD in Computer Science, *Peking University* *2019.7-2024.7*
Supervisor: Prof. Baoquan Chen
Collaborators: Prof. Marc Christie, Prof. Libin Liu, Dr. Bin Wang, Dr. Xi Wang
Major: Computer Application Technology
Thesis: *Research on Intelligent Camera Movement Based on Multimodal Control*

BS in Computer Science, *Peking University* *2015.7-2019.7*
Supervisor: Prof. Baoquan Chen, Prof. Jiaying Liu
Major: Computer Science
Thesis: *Research on Camera Trajectory Planning Based on Toric Space*

Working and Professional Experience

Senior Engineer, *Huawei Technologies Co., Ltd. Hangzhou, China* *2025.8-present*
Address: Building Z8, No. 410 Jianghong Road, Binjiang District, Hangzhou City, China.
Topics: Sparse-view 3D Reconstruction via Deep Learning
Content: Developed deep learning algorithms for 3D reconstruction from sparse-view inputs. Adapted generative video models to synthesize dense observations from limited geometry, enabling high-fidelity reconstruction of objects and digital humans.

Senior Engineer, *Huawei Technologies Co., Ltd. Beijing, China* *2024.7-2025.8*
Address: Building Q20, Zhongguancun Environmental Protection Technology Demonstration Park, No. 156 Beiqing Road, Haidian District Beijing, China
Topics: Character Animation, Camera Control
Content: Researched character animation driven by video models and pose guidance. Integrated controllable camera motion to enhance video aesthetics and cinematic effects, streamlining the production pipeline for high-quality character assets.

Research Internship, *Beijing Film Academy*, *AICFVE* Lab *2019-2021*
Topics: Learning-based virtual camera control
Collaborators: Prof. Baoquan Chen, Prof. Marc Christie, Prof. Libin Liu, Dr. Bin Wang, Dr. Xi Wang

Research Internship, *Peking University*, *Wangxuan Institute of Computer Technology* *2017-2018*
Topics: Human action recognition, Multimodal fusion
Supervised by: Prof. Jiaying Liu

Publications

Hongda Jiang, Marc Christie, Xi Wang, Libin Liu, Baoquan Chen. Cinematographic Camera Diffusion Model. *Computer Graphics Forum (Proc. of the Eurographics)*, 2024. [pdf]

Hongda Jiang, Marc Christie, Xi Wang, Libin Liu, Bin Wang, Baoquan Chen. Camera Keyframing with Style and Control. *ACM Transactions on Graphics (Proc. of the SIGGRAPH Asia)*, 2021. [pdf][video]

Hongda Jiang, Bin Wang, Xi Wang, Marc Christie, Baoquan Chen. Example-driven virtual cinematography by learning camera behaviors. *ACM Transactions on Graphics (Proc. of the SIGGRAPH)*, 2020. [pdf][video]

Baoquan Chen, Mingyi Shi, Xingyu Ni, Liangwang Ruan, **Hongda Jiang**, Heyuan Yao, Mengdi Wang, Zhenhua Song, Qiang Zhou, Tong Ge. Data Visualization Analysis and Simulation Prediction for COVID-19. ArXiv preprint 2019. [pdf]

Hongda Jiang, Yanghao Li, Sijie Song, and Jiaying Liu, Rethinking Fusion Baselines for Multi-modal Human Action Recognition. Pacific Rim Conference on Multimedia, 2018. [pdf]

Research Interests

3D Vision, Camera Control, Computational Cinematography, Character Animation, Cinematic Drones

Activities

Review

SIGGRAPH/SIGGRAPH Asia (2022, 2023), Transactions on Graphics (2024), Eurographics (2024), Eurographics (2025).

Mentoring

I am fortunate to (co-)mentor a few highly motivated junior students: Yulong Zhang, Jason Qin, Bangjun Xiao, Yusu Fang.

Invited Talks

"Example-driven Virtual Cinematography by Learning Camera Behaviors", Kuaishou, Beijing, Apr 2021.

"Learning-based camera control in virtual cinematography", Huawei Company, Beijing, Aug 2022.

"Virtual Cinematography by Learning Camera Behaviors", Shanghai AI Lab, Shanghai, Aug 2023.

Close collaboration with gaming/animation companies (Thought Pennies, NetEase, miHoYo) on animation/camera design.

Award

Research

Award for Contribution in Student Organizations, Peking University (Ubiquant Scholarship), 2023

Award for Scientific Research, Peking University (Schlumberger Limited Scholarship), 2022

Third Class Scholarship, Peking University, 2020

Computing Star of EECS, Peking University, 2020

Excellent Project Award, PKU Undergraduate President Fund, 2018

Programming

First Place, 16th Computer Programming Contest of Peking University, 2017

Second Prize, 15th Computer Programming Contest of Peking University, 2016

Silver Award, ACM CCPC Hangzhou, 2016

Second Prize, CCF National Olympiad in Informatics (NOI), 2014

Gold Award, CCF China Team Selection Competition (CTSC), 2014