HONGDA JIANG

CONTACT INFORMATION

Email: hongda.jiang@pku.edu.cn   Bio Page
Address: Peking University, No.5 Yiheyuan Road Haidian District, Beijing, P.R.China 10087

EDUCATION

PhD in Computer Science, *Peking University* *2019 - 2024*
Supervisor: Prof. Baoquan Chen
Collaborators: Prof. Marc Christie, Prof. Libin Liu, Dr. Bin Wang, Dr. Xi Wang
Major: Computer Application Technology

BS in Computer Science, *Peking University* *2015-2019*
Supervisor: Prof. Baoquan Chen, Prof. Jiaying Liu
Major: Computer Science
Thesis: *Research on Camera Trajectory Planning Based on Toric Space*

RESEARCH INTERESTS

Camera Control, Computational Cinematography, Character Animation, Cinematic Drones

PROFESSIONAL EXPERIENCE

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

Teaching Assistant, *Peking University* *2019-2020*
Course: Frontier computing practices (fall 2019, spring 2020)

Teaching Assistant, *Peking University* *2018-2019*
Course: Computer Generated Imagery and Visual Effects (fall 2018)

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. [Conditional Accepted]

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]

ACTIVITIES

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

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

Invited Talks

- Invited talk on "Example-driven Virtual Cinematography by Learning Camera Behaviors", Apr 2021, Quick Worker Company, Beijing, China.

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

- Invited talk on "Virtual Cinematography by Learning Camera Behaviors", Aug 2023, Shanghai AI Lab, Shanghai, China.

- I also hold close relation with leading gaming and animation companies (Thought Pennies, NetEase, miHoYo, etc.) on discussion and communication to their animation/camera design module.

Public Services

- In July 2021, there was a sudden rainstorm in Henan, resulting in a serious disaster. We did a project to collect, update and display the rescue information on the map in real-time. Within a week, we collected a total of **8,560** pieces of rescue information, **38,000** independent accounts accessed the web page, and **280,000** visits were made. [page][press][documentary]

- In Dec 2020, amidst the global COVID-19 pandemic, I actively engaged in the analysis and visualization of the epidemiological data. We formulated a sophisticated spread model to predict the epidemic's evolution. The work received over **120,000** visits and was published on *International Journal of Educational Excellence*. [pdf]

AWARD

Research
Award for Contribution in Student Organizations, Peking University (Ubiquant Scholarship) 2023
Award for Scientific Research Award, Peking University (Schlumberger Limited Scholarship) 2022
Award for Scientific Research Award, Peking University (Third Class Scholarship of Peking University) 2020
Computing Star of EECS, Peking University 2020
Excellent Project Award of Peking University Undergraduate President Fund 2018

Programming
First Place in 16th Computer Programming Contest of Peking University 2017
Second Prize in 15th Computer Programming Contest of Peking University 2016
Silver Award of ACM CCPC, Hangzhou 2016
Second Prize of CCF National Olympiad in Informatics (NOI), China 2014
Gold Award of CCF China Team Selection Competition (CTSC), China 2014