

刘婧媛 Jingyuan Liu

Computer vision and graphics

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Education

- 2017.9-now PhD candidate in Computer Science and Engineering**
Hong Kong University of Science and Technology
Research interests: user interface design, modeling humans in videos
Supervisor: Professor [Chiew-Lan Tai](#) [taicl@cse.ust.hk]
- 2014.9-2017.3 MPhil in Pattern Recognition and Machine Learning**
School of Astronautics, Beijing University of Aeronautics and Astronautics
GPA: 3.9/4.0
Supervisor: Dr. [Bindang Xue](#) [xuebd@buaa.edu.cn]
- 2010.9-2014.7 BEng in Measuring and Controlling Technology and Instrument Specialty
BA in English Literature (Dual Degree)**
University of Science and Technology Beijing

Publications

- [1] **Jingyuan Liu**, Nazmus Saquib, Zhutian Chen, Rubaiat Habib Kazi, Li-Yi Wei, Hongbo Fu, Chiew-Lan Tai. "VCoach: A Customizable Visualization and Analysis System for Video-based Running Coaching." In submission to VIS2022.
- [2] Jingbo Wang, Yu Rong, **Jingyuan Liu**, Sijie Yan, Dahua Lin, Bo Dai. "Towards Diverse and Natural Scene-aware 3D Human Motion Synthesis." CVPR2022.
- [3] **Jingyuan Liu**, Mingyi Shi, Qifeng Chen, Hongbo Fu, Chiew-Lan Tai. "Normalized Human Pose Features for Human Action Video Alignment." ICCV2021 (Oral).
- [4] **Jingyuan Liu**, Hongbo Fu, Chiew-Lan Tai. "*PoseTween*: Pose-driven Tween Animation." In Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology (UIST2020).
- [5] **Jingyuan Liu**, Xuren Zhou, Hongbo Fu, Chiew-Lan Tai. "TAVE: template-based augmentation of visual effects to human actions in videos." Proceedings of the 26th Pacific Conference on Computer Graphics and Applications: Posters. Eurographics Association, 2018.
- [6] **Jingyuan Liu**, Bindang Xue, Linyan Cui. "Analysis of statistical properties of atmospheric turbulence-induced image dancing based on Hilbert transform and dense optical flow." 2016 IEEE 13th International Conference on Signal Processing (ICSP).

Experience

- 2021.3-Now Internship @ Adobe Research**
Led a research project on sports pose data analytics.
- 2020.12-2021.3 Visiting student @ CUHK MMLab**
Assisted research on scene-aware human motion synthesis
- 2020.7 Summer School @ Zhejiang University CAD&CG State Key Lab**
Subject: Visualization and Visual Analytics
- 2019.1 Google AI ML Winter Camp**
Co-developed a framework *QuickPoem* that generates poems from free-hand drawings.
- 2016.9-2016.12 Internship @ Sony China Research Lab**
Assisted research on applying one-shot learning to hand gesture recognition
- 2012.9-2012.11 Internship @ Tsinghua University State Key Lab of Tribology**
Assisted with printed circuit boards assembly for multi-frequency instrument analysis.

Skills

Programming: Python, Matlab, C++.

Frameworks: PyTorch, PyQt5, OpenCV.

Foreign Language: Mandarin: native; English: TOEFL 104 (R:26, L:29, S:24, W:25).

Teaching

2018.9-2019.6 Teaching Assistant @ HKUST

COMP2711 Discrete Mathematical Tools in Computer Science	2018Spring, 2019Fall
COMP2611 Computer Organization	2020Spring, 2021Spring

Awards

- 2017 HKUST Research Postgraduate Scholarship
- 2015 National Postgraduate Scholarship
- 2013 Champion of Worldwide Freescale Cup Intelligent Car Race
- 2013 ARM Special Award
- 2013 2nd Runner-up in National Undergraduate Electronic Design Contest (Beijing Division)
- 2012 1st Runner-up in Mathematical Contest in Modeling
- 2011 1st Runner-up in National English Contest for College Students