

Jingyuan Liu

Computer vision and graphics

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Education

- 2017.9-2022.6** **PhD in Computer Science and Engineering**
Hong Kong University of Science and Technology
Research interest: user interface design, modeling humans in videos
Supervisor: Professor [Chiew-Lan Tai](mailto:taicl@cse.ust.hk) [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](mailto:xuebd@buaa.edu.cn) [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

Experiences

- 2024.4-Now** **Project Assistant Professor @ The University of Tokyo**
- 2022.10-2024.3** **Project Researcher @ The University of Tokyo**
Research topic: Human-in-the-Loop AI and virtual try-on.
- 2021.3-2022.3** **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.

Awards

- 2021 Nomination for the Professor Samuel Chanson Best Teaching Assistant Awards
- 2017 HKUST Research Postgraduate Studentship
- 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

Publications

- [1] **Jingyuan Liu**, Li-Yi Wei, Ariel Shamir, Takeo Igarashi. "*iPose*: Interactive Human Pose Reconstruction from Video." In CHI2024.
- [2] Zaiqiang Wu*, **Jingyuan Liu*** (joint first author), Toby Chong, I-Chao Shen, Takeo Igarashi. Virtual Measurement Garment for Per-Garment Virtual Try-On. In Graphical Interface 2024.
- [3] **Jingyuan Liu**, Nazmus Saquib, Zhutian Chen, Rubaiat Habib Kazi, Li-Yi Wei, Hongbo Fu, Chiew-Lan Tai. "*PoseCoach*: A Customizable Visualization and Analysis System for Video-based Running Coaching." In TVCG2022.
- [4] Jingbo Wang, Yu Rong, **Jingyuan Liu**, Sijie Yan, Dahua Lin, Bo Dai. "Towards Diverse and Natural Scene-aware 3D Human Motion Synthesis." CVPR2022.
- [5] **Jingyuan Liu**, Mingyi Shi, Qifeng Chen, Hongbo Fu, Chiew-Lan Tai. "Normalized Human Pose Features for Human Action Video Alignment." ICCV2021 (Oral).
- [6] **Jingyuan Liu**, Hongbo Fu, Chiew-Lan Tai. "*PoseTween*: Pose-driven Tween Animation." In UIST2020.
- [7] **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.
- [8] **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). IEEE, 2016.

Teaching

2018.9-2021.6 Teaching Assistant @ HKUST

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