Xian Liu

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EDUCATION

- **The Chinese University of Hong Kong** Hong Kong SAR
  Ph.D. Student of Multi-Media Lab (MMLab), Information Engineering 2021 – 2025 (Expected)

- **Zhejiang University** Hangzhou, China
  B.S. in Computer Science; GPA: 3.97/4.00. Rank: 1/154 2017 – 2021

RESEARCH INTERESTS

Computer Vision, Generative Modeling, Audio-Visual Learning

MANUSCRIPTS

- **Semantic-Aware Implicit Neural Audio-Driven Video Portrait Generation**
  <u>Xian Liu</u>, Yinghao Xu, Qianyi Wu, Hang Zhou, Wayne Wu, Bolei Zhou
  Preprint, Under Review.

CONFERENCE PUBLICATIONS

(* denotes equal contribution)

- **Learning Hierarchical Cross-Modal Association for Co-Speech Gesture Generation**
  <u>Xian Liu</u>, Qianyi Wu, Hang Zhou, Yinghao Xu, Rui Qian, Xinyi Lin, Xiaowei Zhou, Wayne Wu, Bo Dai, Bolei Zhou
  IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022.

- **Visual Sound Localization in the Wild by Cross-Modal Interference Erasing**
  <u>Xian Liu</u>*, Rui Qian*, Hang Zhou*, Di Hu, Weiyao Lin, Ziwei Liu, Bolei Zhou, Xiaowei Zhou
  AAAI Conference on Artificial Intelligence (**AAAI**), 2022.

- **Enhancing Self-supervised Video Representation Learning via Multi-level Feature Optimization**
  Rui Qian, Yuxi Li, Huabin Liu, John See, Shuangrui Ding, <u>Xian Liu</u>, Dian Li, Weiyao Lin
  International Conference on Computer Vision (**ICCV**), 2021.

- **Motion Capture from Internet Videos**
  Junting Dong, Qing Shuai, Yuanqing Zhang, <u>Xian Liu</u>, Xiaowei Zhou, Hujun Bao
  European Conference on Computer Vision (**ECCV**), 2020. (**Oral Presentation, Top 2%**)

WORKSHOP PAPERS

- **ChemSpacE: Toward Steerable and Interpretable Chemical Space Exploration**
  Yuanqi Du, <u>Xian Liu</u>, Shengchao Liu, Jieyu Zhang, Bolei Zhou
  ICLR 2022 Machine Learning for Drug Discovery Workshop, 2022.

- **Interpreting Molecular Space with Deep Generative Models**
  Yuanqi Du, <u>Xian Liu</u>, Shengchao Liu, Jieyu Zhang, Bolei Zhou
  ELLIS Machine Learning for Molecule Discovery Workshop, 2021. (**Oral**)

WORKING EXPERIENCE

- **Digital Content Group, Shanghai AI Laboratory** Shanghai, China
  Research Intern Jul. 2021 - Feb. 2022
  Topic: Audio-Visual Learning, Generative Modeling

- **Intelligent Video Group, SenseTime Research** Shanghai, China
  Research Intern Aug. 2020 - Jun. 2021
  Topic: Audio-Driven Talking Face Generation, Co-Speech Gesture Generation

- **Microsoft China** Beijing, China
  Back-end Engineer Intern Jul 2019 - Sep 2019

Professional Services

- **Conference Reviewer:** CVPR (2022), ECCV (2022), SIGGRAPH Asia (2022), NeurIPS (2022), ICML (2022), AAAI (2022).

Selected Honors & Awards

• **National Scholarship**	2019, 2020
• **Hong Kong Ph.D. Fellowship Scheme (HKPFS)**	2021-2025
• **Outstanding Graduate, Zhejiang Province**	2021
• **SenseTime Scholarship**	2020
• **Tang Lixin Scholarship**	2019
• **First Class Scholarship for Academic Excellence**	2019, 2020

Teaching Experience

- **Spring 2022:** ENGG 1120, Linear Algebra for Engineers.

- **Fall 2021:** ENGG 2440, Discrete Mathematics for Engineers.