

Jiaze WANG

+852-51361998 | Email: jzwang@link.cuhk.edu.hk | Webpage: <https://jiazewang.com>

RESEARCH INTERESTS

- My previous research aims at endowing the machines to sense and understand the visual world in the following areas: **(1) Multi-modal Learning**, especially sign language recognition and trajectory prediction. **(2) 3D Vision**, especially 3D understanding and 6D pose estimation.
- **Areas:** Computer Vision, Machine Learning, Artificial Intelligence.

EDUCATION

Major	College / University	Year
Ph.D. of Computer Science	The Chinese University of Hong Kong	Aug. 2021 – Present
Master of Computer Science	The Chinese University of Hong Kong	Sept. 2018 – Jun. 2019
Bachelor of Computer Science	Central South University	Sept. 2014 – Jun. 2018

SELECTED PUBLICATIONS

- **Preprints**
 1. **Jiaze Wang***, Yi Wang*, Ziyu Guo, Renrui Zhang, Donghao Zhou, Guangyong Chen, Anfeng Liu, Pheng-Ann Heng. "TripletMix: Triplet Data Augmentation for 3D Understanding", *In Submission*.
 2. Hao Chen*, **Jiaze Wang***, Ziyu Guo, Jinpeng Li, Donghao Zhou, Bian Wu, Chenyong Guan, Guangyong Chen, and Pheng-Ann Heng. "SignVTCL: Multi-Modal Continuous Sign Language Recognition Enhanced by Visual-Textual Contrastive Learning", *In Submission*.
 3. **Jiaze Wang**, Hao Chen, Hongcan Xu, Jinpeng Li, Bowen Wang, Kun Shao, Furui Liu, Huaxi Chen, Guangyong Chen, and Pheng-Ann Heng. "SFANet: Spatial-Frequency Attention Network for Weather Forecasting", *In Submission*.
- **Conference Publications**
 4. Yi Wang*, **Jiaze Wang***, Jinpeng Li, Zixu Zhao, Guangyong Chen, Anfeng Liu and Pheng-Ann Heng. "PointPatchMix: Point Cloud Mixing with Patch Scoring", *AAAI 2024*.
 5. Hao Chen*, **Jiaze Wang***, Kun Shao, Furui Liu, Chenyong Guan, Jianye Hao, Guangyong Chen, Pheng-Ann Heng. "Traj-MAE: Masked Autoencoders for Trajectory Prediction", *ICCV 2023*.
 6. Zixu Zhao, **Jiaze Wang**, Max Horn, Yizhuo Ding, Tong He, Zechen Bai, Bing Shuai, Dominik Zietlow, Carl-Johann Simon-Gabriel, Zhuowen Tu, Thomas Brox, Bernt Schiele, Yanwei Fu, Tianjun Xiao, Francesco Locatello, Zheng Zhang. "Object-centric Multiple Object Tracking", *ICCV 2023*.
 7. **Jiaze Wang***, Kai Chen*, and Qi Dou. "Category-Level 6D Object Pose Estimation via Cascaded Relation and Recurrent Reconstruction Network", *IROS 2021*.
 8. Anyi Rao, **Jiaze Wang**, Linning Xu, Xuekun Jiang, Qingqiu Huang, Bolei Zhou, Dahua Lin. "A Unified Framework for Shot Type Classification Based on Subject Centric Lens", *ECCV 2020*.
 9. Qingqiu Huang, Yu Xiong, Anyi Rao, **Jiaze Wang**, Dahua Lin. "MovieNet: A Holistic Dataset for Movie Understanding", *ECCV 2020*.
 10. **Jiaze Wang**. "Part Matching with Multi-level Attention for Person Re-Identification", *ICCVW 2019*.
- **Journal Publications**
 11. **Jiaze Wang***, Xiaojiang Peng*, Yu Qiao. "Cascade Multi-Head Attention Networks for Action Recognition", *CVIU 2020*.

INTERNSHIP

- **Research Intern | Amazon Web Services AI Lab | Shanghai** **Oct. 2022 - Sept. 2023**
 - Design an efficient architecture for object-centric object tracking.

- **Research Assistant | The Chinese University of Hong Kong | Hong Kong** Jul. 2019 – July. 2021
 - Design an efficient architecture for 6D pose estimation based on the Transformer architecture.
 - Participate in constructing Movienet and MovieShots for movie understanding.
- **Research Assistant | Shenzhen Institute of Advanced Technology | Shenzhen** Jan. 2018 - Aug. 2018
 - Propose a high-performance network for action recognition.

PROFESSIONAL ACTIVITIES

- **Conference Reviewer:** CVPR2024, ICCV2023, ECCV2024, NeurIPS2024, ACCV2024, IROS2023.
- **Journal Reviewer:** RA-L, TMM, CVIU.

AWARDS & HONORS

- CUHK Postgraduate Studentship, 2021-2025.
- Hunan Natural Science Award, Second Prize (6/6), 2021.
- Distinguished Academic Performance Scholarship in Computer Science, CUHK
- Entrance Scholarship in Computer Science, CUHK
- Outstanding graduates in Hunan Province (Top 3%)
- Outstanding graduates in Central South University (Top 10%)
- Meritorious Winner in MCM/ICM 2016 (Top 8%)
- 2016-2017 Central South University Excellent Student (Top 10%)
- 2015-2016 Central South University Excellent Student (Top 10%)
- Outstanding volunteer in 2015 FIBA Asia Championship (Top 10%)

SKILLS

- **Programming:** Python, C, C++, Java, MATLAB
- **Tools:** Pytorch, OpenCV, SSH, Git, Latex, Linux