

Shuangrui Ding

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EDUCATION

Department of Information Engineering, The Chinese University of Hong Kong <i>Ph.D. in Information Engineering, Advisor: Prof. Dahua Lin</i>	Sept 2023 – Now Hongkong, China
Department of Electrical Engineering, Shanghai Jiao Tong University <i>M.S. in Information and Communication Engineering, Advisor: Prof. Hongkai Xiong</i>	Sept 2021 – June 2023 Shanghai, China
College of Engineering, University of Michigan <i>B.S.E. in Computer Science, GPA: 3.9/4.0</i>	Sept 2019 – May 2021 Ann Arbor, Michigan
UM-SJTU Joint Institute, Shanghai Jiao Tong University <i>B.S.E in Electrical and Computer Engineering, GPA: 3.8/4.0</i>	Sept 2017 – Aug 2021 Shanghai, China

PUBLICATION (* INDICATES EQUAL CONTRIBUTION)

- **Shuangrui Ding**, Rui Qian, Xiaoyi Dong, Pan Zhang, Yuhang Zang, Yuhang Cao, Yuwei Guo, Dahua Lin, Jiaqi Wang. *SAM2Long: Enhancing SAM2 for Long Video Segmentation with a Training-Free Memory Tree*. **Preprint 2024**.
- **Shuangrui Ding***, Zihan Liu*, Xiaoyi Dong, Pan Zhang, Rui Qian, Conghui He, Dahua Lin, Jiaqi Wang. *SongComposer: A Large Language Model for Lyric and Melody Composition in Song Generation*. **Preprint 2024**.
- Rui Qian, Xiaoyi Dong, Pan Zhang, Yuhang Zang, **Shuangrui Ding**, Dahua Lin, Jiaqi Wang. *Streaming Long Video Understanding with Large Language Models*. **NeurIPS 2024**.
- Rui Qian, **Shuangrui Ding**, Dahua Lin. *Rethinking Image-to-Video Adaptation: An Object-centric Perspective*. **ECCV 2024**.
- **Shuangrui Ding***, Rui Qian*, Haohang Xu, Dahua Lin, Hongkai Xiong. *Betrayed by Attention: A Simple yet Effective Approach for Self-supervised Video Object Segmentation*. **ECCV 2024**.
- Han Li, Shaohui Li, **Shuangrui Ding**, Wenrui Dai, Maida Cao, Chenglin Li, Junni Zou, Hongkai Xiong. *Image Compression for Machine and Human Vision with Spatial-Frequency Adaptation*. **ECCV 2024**.
- Li Ding, Wen Fei, Yuyang Huang, **Shuangrui Ding**, Wenrui Dai, Chenglin Li, Junni Zou, Hongkai Xiong. *AMPA: Adaptive Mixed Precision Allocation For Low-Bit Integer Training*. **ICML 2024**.
- **Shuangrui Ding**, Peisen Zhao, Xiaopeng Zhang, Rui Qian, Hongkai Xiong, Qi Tian. *Prune Spatio-temporal Tokens by Semantic-aware Temporal Accumulation*. **ICCV 2023**.
- Rui Qian, **Shuangrui Ding**, Xian Liu, Dahua Lin. *Semantics Meets Temporal Correspondence: Self-supervised Object-centric Learning in Videos*. **ICCV 2023**.
- Rui Qian, **Shuangrui Ding**, Xian Liu, Dahua Lin. *Static and Dynamic Concepts for Self-supervised Video Representation Learning*. **ECCV 2022**.
- **Shuangrui Ding**, Rui Qian, Hongkai Xiong. *Dual Contrastive Learning for Spatio-temporal Representation*. **ACM MM 2022**.
- **Shuangrui Ding**, Maomao Li, Tianyu Yang, Rui Qian, Haohang Xu, Qingyi Chen, Jue Wang, Hongkai Xiong. *Motion-aware Contrastive Video Representation Learning via Foreground-background Merging*. **CVPR 2022**.
- Rui Qian, Yuxi Li, Huabin Liu, John See, **Shuangrui Ding**, Xian Liu, Dian Li, Weiyao Lin. *Enhancing Self-supervised Video Representation Learning via Multi-level Feature Optimization*. **ICCV 2021**.
- Jiaqi Ma*, **Shuangrui Ding***, Qiaozhu Mei. *Towards More Practical Adversarial Attacks on Graph Neural Networks*. **NeurIPS 2020**.

WORK EXPERIENCE

Shanghai AI Lab

Research Intern (Multi-modality LLM)

Shanghai, China

May 2023 – Now

Tencent AI Lab

Research Intern (Self-supervised Video Representation Learning)

Shenzhen, China

Feb 2021 – Aug 2021

AWARDS & HONORS

CUHK Vice-Chancellor's Ph.D. Scholarship (80,000 HKD)

Mar 2023

Graduate National Scholarship (Top 2%)

Sep 2022

Shanghai Outstanding Graduates (Top 5%)

May 2021

UM Deans List

Dec 2019, Dec 2020

SJTU Undergraduate Excellent Scholarship

Nov 2018, Nov 2019

Undergraduate National Scholarship (Top 2%)

Sep 2018

SKILLS & SERVICES

Languages: Chinese (Native), English (Fluent, TOEFL 101)

Programming: C/C++, Python (Pytorch), Java, HTML/CSS, SQL, MATLAB, \LaTeX

Conference Reviewer:

Computer Vision: ECCV'22/24, CVPR'23-24, ICCV'23

Machine Learning: NeurIPS'23-24, ICLR'23-25, AAAI'23-25, ICML'24

Multimedia: ACM MM'23-24