Shuangrui Ding

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EDUCATION

Department of Information Engineering, The Chinese University of Hong Kong Sept 2023 – Now
Ph.D. in Information Engineering, Advisor: Prof. Dahua Lin Hongkong, China

Department of Electrical Engineering, Shanghai Jiao Tong University Sept 2021 – June 2023
M.S. in Information and Communication Engineering, Advisor: Prof. Hongkai Xiong Shanghai, China

College of Engineering, University of Michigan Sept 2019 – May 2021
B.S.E. in Computer Science, GPA: 3.9/4.0 Ann Arbor, Michigan

UM-SJTU Joint Institute, Shanghai Jiao Tong University Sept 2017 – Aug 2021
B.S.E in Electrical and Computer Engineering, GPA: 3.8/4.0 Shanghai, China

SELECTED PUBLICATION (* INDICATES EQUAL CONTRIBUTION)

1. **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.**

2. **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*. **ACL 2025 Main.**

3. Zihan Liu, **Shuangrui Ding**, Zhixiong Zhang, Xiaoyi Dong, Pan Zhang, Yuhang Zang, Yuhang Cao, Dahua Lin, Jiaqi Wang. *SongGen: A Single Stage Auto-regressive Transformer for Text-to-Song Generation*. **ICML 2025.**

4. Junbo Niu, Yifei Li, Ziyang Miao, Chunjiang Ge, Zhou Yuanhang, Qihao He, Xiaoyi Dong, Haodong Duan, **Shuangrui Ding**, Rui Qian, Pan Zhang, Yuhang Zang, Yuhang Cao, Conghui He, Jiaqi Wang. *OVO-Bench: How Far is Your Video-LLMs from Real-World Online Video Understanding?* **CVPR 2025.**

5. Yuwei Guo, Ceyuan Yang, Anyi Rao, Chenlin Meng, Omer Bar-Tal, **Shuangrui Ding**, Maneesh Agrawala, Dahua Lin, Bo Dai. *VideoRepainter: Creative Video Inpainting with Keyframe Reference.* **CVPR 2025.**

6. Rui Qian*, **Shuangrui Ding***, Xiaoyi Dong, Pan Zhang, Yuhang Zang, Yuhang Cao, Dahua Lin, Jiaqi Wang. *Dispider: Enabling Video LLMs with Active Real-Time Interaction via Disentangled Perception, Decision, and Reaction.* **CVPR 2025.**

7. Rui Qian, Xiaoyi Dong, Pan Zhang, Yuhang Zang, **Shuangrui Ding**, Dahua Lin, Jiaqi Wang. *Streaming Long Video Understanding with Large Language Models.*. **NeurIPS 2024.**

8. Rui Qian, **Shuangrui Ding**, Dahua Lin. *Rethinking Image-to-Video Adaptation: An Object-centric Perspective*. **ECCV 2024.**

9. **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.**

10. 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.**

11. 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.**

12. **Shuangrui Ding**, Peisen Zhao, Xiaopeng Zhang, Rui Qian, Hongkai Xiong, Qi Tian. *Prune Spatio-temporal Tokens by Semantic-aware Temporal Accumulation*. **ICCV 2023.**

13. Rui Qian, **Shuangrui Ding**, Xian Liu, Dahua Lin. *Semantics Meets Temporal Correspondence: Self-supervised Object-centric Learning in Videos*. **ICCV 2023.**

14. Rui Qian, **Shuangrui Ding**, Xian Liu, Dahua Lin. *Static and Dynamic Concepts for Self-supervised Video Representation Learning*. **ECCV 2022**.

15. **Shuangrui Ding**, Rui Qian, Hongkai Xiong. *Dual Contrastive Learning for Spatio-temporal Representation*. **ACM MM 2022**.

16. **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**.

17. 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**.

18. Jiaqi Ma*, **Shuangrui Ding***, Qiaozhu Mei. *Towards More Practical Adversarial Attacks on Graph Neural Networks*. **NeurIPS 2020**.

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'23-25, ICCV'23/25
  Machine Learning: NeurIPS'23-25, ICLR'23-25, AAAI'23-25, ICML'24-25
  Natural Language Processing: ACL'25
  Multimedia: ACM MM'23-24