

Rui Qian

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SHB 702, CUHK
Hong Kong SAR, China

- OBJECTIVE** *Ph.D. student in Multi-Media Lab, Department of Information Engineering, The Chinese University of Hong Kong. I am interested in computer vision and machine learning, especially self-supervised learning and video understanding.*
- EDUCATION**
- The Chinese University of Hong Kong, Hong Kong, China
Ph.D. Student, Information Engineering, August 2021 - Present
 - Shanghai Jiao Tong University, Shanghai, China
Undergraduate Student, Information Engineering, September 2017 - June 2021
GPA: 3.95/4.3, Score: 91.70/100, Rank: 2/147
- TECHNICAL SKILLS**
- Languages :** Python, Matlab, C++
Tools/Framework : PyTorch, OpenCV
Research Interests : Video Understanding, Self-supervised Representation Learning
- EXPERIENCE**
- CUHK MMLab** **Aug. 2021 - Present**
- SJTU MIN Lab** **Dec. 2018 - Jun. 2021**
- Research on Spatiotemporal Action Localization, with one [paper](#) as co-author accepted by AAAI 2020.
 - Research on Joint Audiovisual Learning especially Sound Source Localization, with one [paper](#) accepted by ECCV 2020.
 - Participating in the organization of [Human-in-Events](#) Challenge on ACM Multimedia 2020 for large-scale human-centric video analysis in complex events.
 - Research on Self-supervised Video Representation Learning, with one [paper](#) accepted by ICCV 2021.
- † Supervised by Prof. [Weiyao Lin](#)
- Discriminative Sounding Object Localization** **Mar. 2020 - Jun. 2020**
- Propose to discriminatively localize sounding objects in a cocktail-party scenario in a self-supervised manner, with one [paper](#) accepted by NeurIPS 2020.
- † Supervised by Prof. [Di Hu](#)
- SenseTime Research Intern** **Feb. 2021 - Jun. 2021**
- Work in [OpenMMLab](#) group on transformer and video understanding.
- † Supervised by Dr. [Kai Chen](#)
- AWARDS**
- National Scholarship at SJTU Oct. 2018
 - First Prize in CUMCM Shanghai District Oct. 2018
 - Grand Prize in Chinese Physics Contest Jan. 2019
 - Finalist in MCM Apr. 2019
 - Ji Hanbing Scholarship at SJTU Nov. 2019
 - Rongchang Technology Innovation Scholarship at SJTU Nov. 2020
 - SenseTime Scholarship Dec. 2020
 - Hong Kong PhD Fellowship Scheme Apr. 2021
 - Top 1% Bachelor Thesis Award of SJTU Jun. 2021
 - Outstanding Graduate of Shanghai Jun. 2021

PUBLICATIONS

- [1] **R. Qian**, Y. Li, H. Liu, J. See, S. Ding, X. Liu, D. Li, W. Lin. Enhancing Self-supervised Video Representation Learning via Multi-level Feature Optimization. The IEEE International Conference on Computer Vision (ICCV), 2021.
- [2] **R. Qian**, D. Hu, H. Dinkel, M. Wu, N. Xu, W. Lin. Multiple Sound Sources Localization from Coarse to Fine. The European Conference on Computer Vision (ECCV), 2020.
- [3] **R. Qian**, D. Hu, H. Dinkel, M. Wu, N. Xu, W. Lin. A Two-Stage Framework for Multiple Sound-Source Localization. The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2020.
- [4] D. Hu, **R. Qian**, M. Jiang, X. Tan, S. Wen, E. Ding, W. Lin, D. Dou. Discriminative Sounding Objects Localization via Self-supervised Audiovisual Matching. Advances in Neural Information Processing Systems (NeurIPS), 2020.
- [5] S. Li, J. Li, H. Tang, **R. Qian**, W. Lin. ATRW: A Benchmark for Amur Tiger Re-identification in the Wild. The ACM International Conference on Multimedia (ACMMM), 2020.
- [6] Y. Li, W. Lin, T. Wang, J. See, **R. Qian**, N. Xu, L. Wang, S. Xu. Finding Action Tubes with a Sparse-to-Dense Framework. The AAAI Conference on Artificial Intelligence (AAAI), 2020.