Rui Qian

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OBJECTIVE

Junior undergraduate student at School of Electrical Information and Electronic Engineering, Shanghai Jiao Tong University. I am interested in computer vision and machine learning, especially self-supervised learning and joint audiovisual modeling.

EDUCATION

Shanghai Jiao Tong University, Shanghai, China
Undergraduate Student, Information Engineering, September 2017 - present
GPA: 3.92/4.3, Score: 91.3/100, Rank: 3/151

TECHNICAL SKILLS

Languages : Python, Matlab, C++
Tools/Framework : PyTorch, OpenCV
Research Interests : Self-supervised Learning for Video Understanding, Audiovisual Scene Analysis

EXPERIENCE

SJTU MIN Lab Research **December 2018 - present**

• 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, one paper accepted by CVPR Sight and Sound Workshop 2020.
• Participating in the organization of Human-in-Events Challenge on ACM Multimedia 2020 for large-scale human-centric video analysis in complex events.
† Supervised by Prof. Weiyao Lin

MCM DroneGo System Modeling **January 2019**

• Propose Container Loading, Drone Selection, Routing Selection Model for drug delivery in disaster, achieving Finalist in MCM 2019.
† Supervised by Prof. Xiaofeng Gao

Discriminative Sounding Object Localization **March 2020 - June 2020**

• Propose to discriminatively localize sounding objects in a cocktail-party scenario in a self-supervised manner, with one paper submitted to NIPS 2020.
† Working with Dr. Di Hu

AWARDS

- **National Scholarship at SJTU (TOP 2%)** October 2018
- **First Prize in CUMCM Shanghai District** October 2018
- **Grand Prize in Chinese Physics Contest** January 2019
- **Finalist in MCM (TOP 0.3%)** April 2019
- **Ji Hanbing Scholarship at SJTU** November 2019

PUBLICATIONS

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 Vison (ECCV), 2020.

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 (CVPR) Workshops, 2020.

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.

ADDITIONAL ACTIVITIES

One paper on multi-source sounding object localization submitted to NIPS 2020.
Planning to work on self-supervised learning in video understanding this summer.