Rui Qian

Email : qrui9911@sjtu.edu.cn
Github : https://github.com/shvdiwnkozbw

Dongchuan Road 800,
Shanghai, China
(+86) 15906607628

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. Learning to Visually Localize Multiple Sound Sources via A Two-stage Manner. 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.