

Yi Xu

✉ yxu17@fudan.edu.cn

🔗 xyiyy.github.io

☎ (+86) 18717826769

Education Background

Fudan University

Ph.D. Student in Software and Theory of Computer

Advisor: Prof. Shuigeng Zhou

Shanghai Key Lab of Intelligent Information Processing

Shanghai, China

Sept.2017. - Now

Shanghai University

B.S. Student in Computer Science and Technology

Advisors in ACM-ICPC: Prof. Yunfu Shen and Prof. Weimin Li

Overall GPA: 3.82/4.0 | Major GPA: 3.92/4.0 | Ranking: 1/301

Shanghai, China

Sept.2013. - Jun.2017

Publications

Peer-Reviewed Publications

- Minyi Zhao, **Yi Xu (Co-author)**, Shuigeng Zhou
Recursive Fusion and Deformable Spatiotemporal Attention for Video Compression Artifact Reduction
in ACM Multimedia (MM), 2021.
- **Yi Xu**, Minyi Zhao, Jing Liu, Xinjian Zhang, Longwen Gao, Shuigeng Zhou, Huyang Sun
Boosting the Performance of Video Compression Artifact Reduction with Reference Frame Proposals and Frequency Domain Information
in Computer Vision and Pattern Recognition Workshop (CVPRW) NTIRE, 2021.
- **Yi Xu**, Fan Bai, Yingxuan Shi, Qiuyu Chen, Longwen Gao, Kai Tian, Shuigeng Zhou, Huyang Sun
GIF Thumbnails: Attract More Clicks to Your Videos
in Association for the Advancement of Artificial Intelligence (AAAI), 2021.
- Qiuyu Chen, Wei Zhang, Ning Zhou, Peng Lei, **Yi Xu**, Yu Zheng, Jianping Fan
Adaptive Fractional Dilated Convolution Network for Image Aesthetics Assessment
in Computer Vision and Pattern Recognition (CVPR), 2020.
- Kai Tian, **Yi Xu**, Shuigeng Zhou
Network as Regularization for Training Deep Neural Networks: Framework, Model and Performance
in Association for the Advancement of Artificial Intelligence (AAAI), 2020.
(Oral Presentation)
- Zekun Ye, Weijie Deng, Shuigeng Zhou, **Yi Xu**, Jihong Guan
Optimal Trade Execution Based on Deep Deterministic Policy Gradient
in International Conference on Database Systems for Advanced Applications (DASFAA), 2020.
- **Yi Xu**, Longwen Gao, Kai Tian, Shuigeng Zhou, Huyang Sun
Non-Local ConvLSTM for Video Compression Artifact Reduction
in International Conference on Computer Vision (ICCV), 2019.
- Kai Tian, **Yi Xu**, Shuigeng Zhou, Jihong Guan
Versatile Multiple Choice Learning and Its Application to Vision Computing
in Computer Vision and Pattern Recognition (CVPR), 2019.
- Fan Wu, Shuigeng Zhou, Kang Wang, **Yi Xu**, Jihong Guan and Jun Huan
Simple is Better: A Global Semantic Consistency Based End-to-End Framework for Effective Zero-Shot Learning

in Pacific Rim International Conferences on Artificial Intelligence (PRICAI), 2019
(Oral Presentation)

- **Yi Xu**, Zhi Zhuang, Weimin Li, Xiaokang Zhou
Effective community division based on improved spectral clustering
in NeuroComputing, 2018.

Under Review

- Xinjian Zhang, **Yi Xu**, Su Yang, Longwen Gao, Huyang Sun
Dance Generation with Style Embedding: Learning and Transferring Latent Representations of Dance Styles
- Semi-supervised learning

Selected Awards

- NTIRE2021 Quality Enhancement of Heavily Compressed Videos 2021
(Track1: 1st, Track2: 1st, Track3: 2nd)
- NTIRE2021 Nonhomogeneous Dehazing (4th) 2021
- Intel Fellowship 2019
- ACM-ICPC World Finals, Honorable Mention 2016, 2017
- ACM-ICPC Asia Regional Programming Contest (3 Gold, 3 Silver Medals) 2014 - 2016

Internship Experience

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|---|-------------------------------|
| Tencent | <i>Jul. 2021 – Now</i> |
| Research Intern (Supervisor: Dr. Chen Chen) | |
| • Temporal Action Localization | |
| DAMO Academy, Alibaba | <i>Oct. 2020 – Jul. 2021</i> |
| Research Intern (Supervisor: Dr. Jiandong Ding) | |
| • Semi-supervised learning | |
| AI Technology Department, Bilibili | <i>Oct. 2017 – Sept. 2020</i> |
| Research Intern (Supervisor: Dr. Longwen Gao) | |
| • GIF thumbnail generation for UGC Video. | |
| • Efficient semantic segmentation. | |
| • Video quality enhancement. | |
| Bing Ads group, Microsoft | <i>Jul. 2016 – Oct. 2016</i> |
| Summer Intern (Supervisor: Dr. Qiefeng Wang) | |
| • New keyword bid estimation for advertisers. | |

Academic Services

Teaching Assistant

- Computational Geometry (Prof. Yufei Tao, CUHK) 2019 Summer
- C Programming (Prof. Shuigeng Zhou, Fudan) 2017 Fall

Conference Reviewer

- CVPR 2020, 2021
- BMVC 2020, 2021
- WACV 2020, 2021, 2022
- ACCV 2020

Computer Skills

- Languages: C/C++, Python
- Deep Learning Framework: Pytorch