

# Yi Xu

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## 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

- Lu Zhang, Jiandong Ding, **Yi Xu**, Yingyao Liu, Shuigeng Zhou  
Weakly-supervised Text Classification Based on Keyword Graph  
in EMNLP, 2021.
- 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  
Preprint on arXiv.
- **Yi Xu**, Jiandong Ding, Lu Zhang, Shuigeng Zhou  
Semi-supervised learning submitted to NeurIPS 2021  
Current score: 6, 6, 6, 6

## Selected Awards

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- NTIRE2021 Quality Enhancement of Heavily Compressed Videos (Track1: 1st, Track2: 1st, Track3: 2nd) 2021
- 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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| <b>Tencent</b>   | <i>Jul. 2021 – Now</i>        |
| Research Intern (Supervisor: Dr. Chen Chen)<br>in 2021 Tencent Rhino-Bird Elite Training Program |                               |
| • Weakly-Supervised Temporal Action Localization   |                               |
| <b>DAMO Academy, Alibaba</b>   | <i>Oct. 2020 – Jul. 2021</i>  |
| Research Intern (Supervisor: Dr. Jiandong Ding)  |                               |
| • Semi/Weakly-supervised learning for data annotation  |                               |
| <b>AI Technology Department, Bilibili</b>  | <i>Oct. 2017 – Sept. 2020</i> |
| Research Intern (Supervisor: Dr. Longwen Gao)  |                               |
| • GIF thumbnail generation for UGC Video.  |                               |
| • Efficient semantic segmentation.   |                               |
| • Video quality enhancement.   |                               |
| <b>Bing Ads group, Microsoft</b>   | <i>Jul. 2016 – Oct. 2016</i>  |
| Summer Intern (Supervisor: Dr. Qiefeng Wang)   |                               |
| • New keyword bid estimation for advertisers.  |                               |

## Academic Services

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### 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
- AAAI 2022

## **Computer Skills**

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