ZHUOFAN XIA | 夏卓凡

Mobile: +86 135-1226-0137

xzf23@mails.tsinghua.edu.cn

Google Scholar

github.com/Vladimir2506

LinkedIn

EDUCATION

Ph.D. | *Control Science and Engineering* — Aug. 2020 – 2026 (Expected)
Tsinghua University, advised by *Prof. Gao Huang* and *Prof. Shiji Song* — Beijing, China

B.Eng. | *Automation* — Aug. 2016 – June 2020
Tsinghua University — Beijing, China
- Thesis: *Forecasting Air Pollutant Concentration using Graph Neural Networks*

PUBLICATIONS

Budgeted Training for Vision Transformer — ICLR 2023
Zhuofan Xia*, Xuran Pan*, Xuan Jin*, Yuan He, Hui Xue, Shiji Song, Gao Huang[†] — Poster

Vision Transformer with Deformable Attention — CVPR 2022
Zhuofan Xia*, Xuran Pan*, Shiji Song, Li Erran Li, Gao Huang[†] — **Best Paper Finalists**

3D Object Detection with Pointformer — CVPR 2021
Xuran Pan*, **Zhuofan Xia***, Shiji Song, Li Erran Li, Gao Huang[†] — Poster

Slide-Transformer: Hierarchical Vision Transformer with Local Self-Attention — CVPR 2023
Xuran Pan*, Tianzhu Ye*, **Zhuofan Xia**, Shiji Song, Gao Huang[†] — Poster

Adaptive Rotated Convolution for Rotated Object Detection — ICCV 2023
Yifan Pu*, Yiru Wang*, **Zhuofan Xia**, Yizeng Han, Yulin Wang,
Weihao Gan, Zidong Wang, Shiji Song, Gao Huang[†] — Poster

DAT++: Spatially Dynamic Vision Transformer with Deformable Attention — Preprint
Zhuofan Xia, Xuran Pan, Shiji Song, Li Erran Li, Gao Huang[†] — In submission
- Extended journal version of *Vision Transformer with Deformable Attention*.

*Equal Contribution.   [†]Corresponding Author.

INTERNSHIPS

Research Intern — July 2021 – Apr. 2023
Alibaba Inc. — Beijing, China
- Worked on dynamic neural network mechanism on Vision Transformers.
- Paper accepcted to ICLR 2023.

Research Intern — July 2019 – Dec. 2019
SenseTime Inc. — Beijing, China
- Developed several strategies of data augmentation for document table recognition.

Honors and Awards

Friend of Tsinghua – Hefei Talent **Scholarship of Tsinghua University**	Fall 2022
Comprehensive excellence	
Friend of Tsinghua – Samsung **Scholarship of Tsinghua University**	Fall 2021
Comprehensive excellence	
Friend of Tsinghua – Evergrand **Scholarship of Tsinghua University**	Fall 2019
Academic excellence	
Outstanding Social Work Scholarship of Tsinghua University	Fall 2019
Outstanding social work	
Friend of Tsinghua – ZhangRonghua **Scholarship of Tsinghua University**	Fall 2018
Academic excellence	
Outstanding Social Work Scholarship of Tsinghua University	Fall 2018
Outstanding social work	
Academic Excellence Scholarship of Tsinghua University	Fall 2017
Academic excellence	

Teaching Assistant Experience

Modeling and Optimization of Complex Networked Systems	80250463
Instructor: *Prof. Shiji Song* and *Prof. Gao Huang*	Tsinghua University

- Worked as TA in 2021 Fall, 2022 Fall, 2023 Fall.

Skills

- **Languages**: Chinese (Native), English
- **Programming**: C/C++, C#, Python, MATLAB
- **Deep Learning Toolkits**: TensorFlow, PyTorch, Caffe
- **Document Creation**: Microsoft Office Suite, LaTeX, Markdown