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[Google Scholar](#)

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EDUCATION

Ph.D. Control Science and Engineering Tsinghua University, advised by Prof. Gao Huang and Prof. Shiji Song	Aug. 2020 – 2026 (Expected) Beijing, China
B.Eng. Automation Tsinghua University • Thesis: <i>Forecasting Air Pollutant Concentration using Graph Neural Networks</i> • Advised by Prof. Gao Huang and Prof. Shiji Song	Aug. 2016 – June 2020 Beijing, China
High School YaoHua High School, Junior & Senior	Aug. 2010 – June 2016 Tianjin, China

PUBLICATIONS

*Equal Contribution. †Corresponding Author.

Accepted Papers

GSVA: Generalized Segmentation via Multimodal Large Language Models Zhuofan Xia*, Dongchen Han*, Yizeng Han, Xuran Pan, Shiji Song, Gao Huang†	CVPR 2024 Poster
Budgeted Training for Vision Transformer Zhuofan Xia*, Xuran Pan*, Xuan Jin*, Yuan He, Hui Xue, Shiji Song, Gao Huang†	ICLR 2023 Poster
Vision Transformer with Deformable Attention Zhuofan Xia*, Xuran Pan*, Shiji Song, Li Erran Li, Gao Huang†	CVPR 2022 Best Paper Finalists
3D Object Detection with Pointformer Xuran Pan*, Zhuofan Xia*, Shiji Song, Li Erran Li, Gao Huang†	CVPR 2021 Poster
Slide-Transformer: Hierarchical Vision Transformer with Local Self-Attention Xuran Pan*, Tianzhu Ye*, Zhuofan Xia, Shiji Song, Gao Huang†	CVPR 2023 Poster
Adaptive Rotated Convolution for Rotated Object Detection Yifan Pu*, Yiru Wang*, Zhuofan Xia, Yizeng Han, Yulin Wang, Weihao Gan, Zidong Wang, Shiji Song, Gao Huang†	ICCV 2023 Poster

In Submission

DAT++: Spatially Dynamic Vision Transformer with Deformable Attention Zhuofan Xia, Xuran Pan, Shiji Song, Li Erran Li, Gao Huang† • Extended journal version of <i>Vision Transformer with Deformable Attention</i> .	Preprint Submitted to TPAMI
Agent Attention: On the Integration of Softmax and Linear Attention Dongchen Han*, Tianzhu Ye*, Yizeng Han, Zhuofan Xia, Shiji Song, Gao Huang†	Preprint
Generalized Activation via Multivariate Projection Jiayun Li, Yuxiao Cheng, Yiwen Lu, Zhuofan Xia, Yilin Mo†, Gao Huang	Preprint Submitted to ICML24

INTERNSHIPS

Research Intern

Alibaba Inc.

- Worked on dynamic neural network mechanism on Vision Transformers.
- Paper accepted to ICLR 2023.

July 2021 – Apr. 2023

Beijing, China

Research Intern

SenseTime Inc.

- Developed several strategies of data augmentation for document table recognition.

July 2019 – Dec. 2019

Beijing, China

HONORS AND AWARDS

Friend of Tsinghua – Ubiquant Scholarship of Tsinghua University

Comprehensive excellence

Fall 2023

Friend of Tsinghua – Hefei Talent Scholarship of Tsinghua University

Comprehensive excellence

Fall 2022

Friend of Tsinghua – Samsung Scholarship of Tsinghua University

Comprehensive excellence

Fall 2021

Friend of Tsinghua – Evergrand Scholarship of Tsinghua University

Academic excellence

Fall 2019

Outstanding Social Work Scholarship of Tsinghua University

Outstanding social work

Fall 2019

Friend of Tsinghua – ZhangRonghua Scholarship of Tsinghua University

Academic excellence

Fall 2018

Outstanding Social Work Scholarship of Tsinghua University

Outstanding social work

Fall 2018

Academic Excellence Scholarship of Tsinghua University

Academic excellence

Fall 2017

TEACHING ASSISTANT EXPERIENCE

Modeling and Optimization of Complex Networked Systems

Instructor: Prof. Shiji Song and Prof. Gao Huang

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

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Tsinghua University

SKILLS

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