

# YANG LI

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## EDUCATION

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**Shanghai Jiao Tong University (SJTU)**, Shanghai, China Sep. 2022 – Present

*Master*, Department of Computer Science and Engineering, Supervisor: Junchi Yan

- GPA: 3.83/4.0
- Courses: 90.0% at A level

**Shanghai Jiao Tong University (SJTU)**, Shanghai, China Sep. 2018 – Jul. 2022

*Bachelor*, School of Cyber Science and Engineering

- GPA: 91.03/100 (or 3.93/4.3), Rank: 3/129
- Foundation Courses: 73.33% above A, 40.00% above A+
- Subject Courses: 80% above A, 50.00% above A+

## PUBLICATIONS

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- **Improving Generative Adversarial Networks via Adversarial Learning in Latent Space**  
Yang Li, Yichuan Mo, Liangliang Shi, Junchi Yan  
Advances in Neural Information Processing Systems (**NeurIPS 2022 Spotlight**)
- **HardSATGEN: Understanding the Difficulty of Hard SAT Formula Generation and A Strong Structure-Hardness-Aware Baseline**  
Yang Li, Xinyan Chen, Wenxuan Guo, Xijun Li, Wanqian Luo, Junhua Huang, Hui-Ling Zhen, Mingxuan Yuan, Junchi Yan  
SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2023**)
- **IID-GAN: an IID Sampling Perspective for Regularizing Mode Collapse**  
Yang Li\*, Liangliang Shi\*, Junchi Yan (\*: equal contributon.)  
International Joint Conference on Artificial Intelligence (**IJCAI 2023**)
- **The Policy-gradient Placement and Generative Routing Neural Networks for Chip Design**  
Ruoyu Cheng, Xianglong Lyu, Yang Li, Junjie Ye, Jianye Hao, Junchi Yan  
Advances in Neural Information Processing Systems (**NeurIPS 2022**)
- **Kissat\_Adaptive\_Restart, Kissat\_Cfexp: Adaptive Restart Policy and Variable Scoring Improvement**  
Yang Li, Yuqi Jia, Wanqian Luo, Hui-Ling Zhen, Xijun Li, Mingxuan Yuan, Junchi Yan  
Proceedings of SAT Competition 2022
- **Distribution Learning in Training to Gradient Search in Testing for Combinatorial Optimization**  
Yang Li, Jinpei Guo, Runzhong Wang, and Junchi Yan  
In Submission, 2023

## EXPERIENCE

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**ThinkLab, Shanghai Jiao Tong University**, Shanghai, China Jul. 2021 – Present

*Researcher* Supervisor: Prof. Junchi Yan

See Publications for research outputs.

- Undergraduate researcher and master researcher.
- Research interests lie deep generative models and combinatorial optimization on graphs.

**Learning Optimization Solver Project, with Huawei Noah's Ark Lab** Apr. 2022 – Feb. 2023

*Researcher* Leader/Mentor: Xijun Li and Prof. Junchi Yan

Main objects lie in the developing superior SAT solvers and exploring insightful ideas regarding the SAT problem, ultimately making valuable contributions to both the research community and practical applications.

- The solver Kissat\_Adaptive\_Restart that I was personally responsible for achieved 12th place in Anniversary Track and 26th place in Main Track worldwide

- The solving strategy is ready to be integrated into Huawei's practical applications, with an average performance gain of around 15% and a maximum performance improvement of 97%.
- A paper on SAT instance generation was accepted in KDD 2023.

## HONORS AND AWARDS

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National Scholarship (top 0.2% in the nation)	2019
Outstanding Graduate of Shanghai (top 3%)	2022
Huawei Fellowship (top 5%)	2020
HyperGryph Fellowship (top 3%)	2021
1st-Class Academic Excellence Scholarship (top 1%)	2019
Merit Student of Shanghai Jiao Tong University	2019, 2020
1st-Class Academic Scholarship for Graduate Students	2022
Special Prize for Social Practice of SJTU	2020
First Prize for Social Practice of SJTU	2019
Advanced Individuals in Social Practice of SJTU	2020

## MISCELLANEOUS

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- Academic Service: NeurIPS, ICML Reviewer
- Blog: <https://yangco-le.github.io/>
- GitHub: <https://github.com/yangco-le>
- Languages: English - Experienced, Mandarin - Native speaker