

# Zhicheng Yang (杨志成)

Email: [yangzhch6@mail2.sysu.edu.cn](mailto:yangzhch6@mail2.sysu.edu.cn) Website: <https://yangzhch6.github.io/>

## EDUCATION

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### Sun Yat-sen University, China

*Aug 2020 – Jun 2023*

School of Intelligent Systems Engineering

Master of Control Science and Engineering (Pattern Recognition)

Supervised by [Prof. Xiaodan Liang](#) in [HCP-Lab](#)

### Sun Yat-sen University, China

*Aug 2016 – Jun 2020*

School of Computer Science and Engineering

Bachelor of Computer Science and Engineering

GPA: 4.0/5.0 (Top 10%)

## AWARDS

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National First Prize, Contemporary Undergraduate Mathematical Contest in Modeling, Top 0.7% *National*

First Prize Scholarship, Top 5% *Sun Yat-sen University*

Second Prize Scholarship, Top 25% *Sun Yat-sen University*

## PUBLICATIONS AND SUBMISSIONS

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My research interests include **AI for Math** and **Reasoning with LLMs**.

- [1] Jinghui Qin\*, **Zhicheng Yang\***, Jiaqi Chen, Xiaodan Liang and Liang Lin  
[Template-based Contrastive Distillation Pre-training for Math Word Problem Solving](#)  
IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**, 2023)
- [2] **Zhicheng Yang\***, Jinghui Qin\*, Jiaqi Chen, Liang Lin, Xiaodan Liang  
[LogicSolver: Towards Interpretable Math Word Problem Solving with Logical Prompt-enhanced Learning](#)  
The 2022 Conference on Empirical Methods in Natural Language Processing (Findings of **EMNLP** 2022)
- [3] **Zhicheng Yang**, Jinghui Qin, Jiaqi Chen, Xiaodan Liang  
[Unbiased Math Word Problems Benchmark for Mitigating Solving Bias](#)  
Annual Conference of the North American Chapter of the Association for Computational Linguistics  
(Findings of **NAACL** 2022)  
Code: <https://github.com/yangzhch6/UnbiasedMWP>
- [4] Yunong Zhang, **Zhicheng Yang**, Jianrong Chen, Zhiyuan Qi and Guanqun Yang  
[Presentation, Derivation and Numerical Experiments of a Group of Extrapolation Formulas](#)  
9th International Conference on Information Science and Technology (ICIST 2019)

## INTERNSHIP EXPERIENCES

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### DMAI, Inc

*April 2021 – June 2022*

Research Intern in Natural Language Processing

- Math problem solving. Build a system that can process basic math word problems and generate a corresponding solving equation.

### ByteDance, DouYin

*July 2022 – September 2022*

Engineering Intern in Recommendation Algorithm

- Optimize the duration forecasting model from two perspectives: 1) Improve RegressionAUC for +2% from a regression perspective, 2) turn regression into classification and add a negative feedback term in the fusion formula.

**Huawei, Noah's Ark Lab**  
Research Intern

*May 2023 – August 2023*

- 1) Improving LLMs reasoning ability by training a verifier on the extracted tree-structured reasoning path without human supervision. 2) Automated Theorem Proving and Generation.