Zhicheng Yang (杨志成)

Emal: yangzhch6@mail2.sysu.edu.cn   Website: https://yangzhch6.github.io/

EDUCATION

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

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

National Undergraduate Scholarship for Encouragement   *Sun Yat-sen University*

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

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

Second prize in ACM Programming Competition of SYSU   *Sun Yat-sen University*

PUBLICATIONS AND SUBMISSIONS

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

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   *May 2023 – August 2023*
Research Intern

- 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.