

Maizhen Ning

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EDUCATION

PhD Student in Computer Science

Dec 2020 - Present

University of Liverpool, UK

Based on off-site and joint supervision at Xi'an Jiaotong-Liverpool University

Supervisors: Prof. Qiufeng Wang, Prof. Kaizhu Huang, Prof. Xiaowei Huang

Bachelor of Science in Computer Science (First Class)

Sep 2016 - May 2020

Cooperation between the University of Liverpool and Xi'an Jiaotong-Liverpool University

University of Liverpool, UK, Supervisor: Prof. Xiaowei Huang

Sep 2018 - May 2020

Xi'an Jiaotong-Liverpool University, China

Sep 2016 - May 2018

RESEARCH INTERESTS

Plane Geometry Problem Solving, Math Problem Generation, Document Information Extraction

RESEARCH PUBLICATION

* Denotes Equal Contribution. See full list at Google Scholar.

Is Your Model Really a Good Math Reasoner? Evaluating Mathematical Reasoning with Checklist

Zihao Zhou*, Shudong Liu*, **Maizhen Ning**, Wei Liu, Jindong Wang, Derek F Wong, Xiaowei Huang, Qiufeng Wang, Kaizhu Huang

The 13th International Conference on Learning Representations (ICLR)

Apr 2025

GNS: Solving Plane Geometry Problems by Neural-Symbolic Reasoning with Multi-Modal LLMs

Maizhen Ning*, Zihao Zhou*, Qiufeng Wang, Xiaowei Huang, Kaizhu Huang

The 39th Annual AAAI Conference on Artificial Intelligence (AAAI) as Oral Presentation

Feb 2025

A Symbolic Characters Aware Model for Solving Geometry Problems

Maizhen Ning, Qiufeng Wang, Kaizhu Huang, Xiaowei Huang

The 31st ACM International Conference on Multimedia (ACM MM)

Oct 2023

Learning by Analogy: Diverse Questions Generation in Math Word Problem

Zihao Zhou*, **Maizhen Ning***, Qiufeng Wang, Jie Yao, Wei Wang, Xiaowei Huang, Kaizhu Huang

Findings of the Association for Computational Linguistics: ACL 2023 (ACL Findings)

Jul 2023

A Segment-Based Layout Aware Model for Information Extraction on Document Images

Maizhen Ning, Qiufeng Wang, Kaizhu Huang, Xiaowei Huang

The 28th International Conference on Neural Information Processing (ICONIP)

Dec 2021

EXPERIENCE

Teaching Assistant

Mar 2021 - May 2024

School of Advanced Technology, XJTLU

Technician Intern

Sep 2016 - Jul 2017

Management Information Technology and System Office, XJTLU

HONORS AND AWARDS

Full Doctoral Scholarship: University of Liverpool and Xi'an Jiaotong-Liverpool University

Dec 2020

RoboMaster 2022: First prize in the RoboMaster National Competition, XJTLU Team

Aug 2022

RoboMaster 2021: Second prize in the RoboMaster National Competition, XJTLU Team

Aug 2021

RoboMaster 2019: Third prize in the RoboMaster International Competition, UoL Team

Aug 2019