

SIYUAN WANG

siyuanwangw.github.io

Fudan University, Shanghai

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EDUCATION

Fudan University

Ph.D. Candidate in Statistics (Statistical Machine Learning Direction)

Advisor: [Zhongyu Wei](#)

Focus: Natural Language Processing, Complex Reasoning, Knowledge Modeling

Shanghai, China

Sep 2018 - Oct 2023

(expected)

Fudan University

Bachelor of Software Engineering (Data Science Direction)

Shanghai, China

Sep 2014 - Jun 2018

RESEARCH EXPERIENCE

Fudan University, DISC Research Lab

Graduate Research Assistant (**Advisor:** [Zhongyu Wei](#))

Project: Knowledge Modeling for Question Generation

Flexible Interpretability and Generalizability of Complex Reasoning

Shanghai, China

Oct 2017 - Present

University of Southern California, INK Research Lab

Visiting Scholar (**Advisor:** [Xiang Ren](#))

Project: Primitive Logical Rule Base Construction and Inference Engine Training

Los Angeles, CA

Jan 2023 - Jun 2023

Langboat Tech

Research Intern (**Advisor:** [Ming Zhou](#))

Project: Neuro-symbolic Exploration for Complex Reasoning

Beijing, China

Feb 2021 - May 2021

Microsoft Research Asia, Natural Language Computing Group

Research Intern (**Advisor:** [Duyu Tang](#))

Project: Symbolic Logic-driven Logical Reasoning

Beijing, China

Sep 2020 - Feb 2021

PUBLICATIONS

[1] **Siyuan Wang**, Zhongyu Wei, Meng Han, Zhihao Fan, Haijun Shan, Qi Zhang, Xuanjing Huang. “**Query Structure Modeling for Inductive Logical Reasoning Over Knowledge Graphs.**” In Proceedings of ACL 2023. Long Paper [\[pdf\]](#)

[2] **Siyuan Wang**, Zhongyu Wei, Jiarong Xu, Taishan Li and Zhihao Fan. “**Unifying Structure Reasoning and Language Pre-training for Complex Reasoning Tasks.**” Preprint [\[pdf\]](#)

[3] **Siyuan Wang**, Zhongyu Wei, Zhihao Fan, Qi Zhang and Xuanjing Huang. “**Locate Then Ask: Interpretable Stepwise Reasoning for Multi-hop Question Answering.**” In Proceedings of COLING 2022. Long Paper [\[pdf\]](#)

[4] **Siyuan Wang**, Zhongkun Liu, Wanjun Zhong, Ming Zhou, Zhongyu Wei, Zhumin Chen, Nan Duan. “**From LSAT: The Progress and Challenges of Complex Reasoning.**” In Transactions of TASLP 2022, Long Paper [\[pdf\]](#)

- [5] **Siyuan Wang**, Wanjun Zhong, Duyu Tang, Zhongyu Wei, Zhihao Fan, Daxin Jiang, Ming Zhou, Nan Duan. “**Logic-Driven Context Extension and Data Augmentation for Logical Reasoning of Text.**” In Findings of ACL 2022. Long Paper [\[pdf\]](#)
- [6] **Siyuan Wang**, Zhongyu Wei, Zhihao Fan, Zengfeng Huang, Weijian Sun, Qi Zhang and Xuanjing Huang. “**PathQG: Neural Question Generation from Facts.**” In Proceedings of EMNLP 2020. Long Paper [\[pdf\]](#)
- [7] **Siyuan Wang**, Zhongyu Wei, Zhihao Fan, Yang Liu and Xuanjing Huang. “**A Multi-Agent Communication Framework for Question-Worthy Phrase Extraction and Question Generation.**” In Proceedings of AAAI 2019. Long Paper [\[pdf\]](#)
- [8] Wanjun Zhong, **Siyuan Wang**, Duyu Tang, Zenan Xu, Daya Guo, Jiahai Wang, Jian Yin, Ming Zhou, Nan Duan. “**Analytical Reasoning of Text.**” In Findings of NAACL 2022. Long Paper [\[pdf\]](#)
- [9] Tong Liu*, **Siyuan Wang***, Jingchao Fu, Lei Chen, Zhongyu Wei, Yaqi Liu, Heng Ye, Liaosa Xu, Weiqiang Wang, Xuanjing Huang. “**Fine-Grained Element Identification in Complaint Text of Internet Fraud.**” In Proceedings of CIKM 2021. Short Paper. *Equal contribution [\[pdf\]](#)
- [10] Jiayu Ding, **Siyuan Wang**, Qin Chen, Zhongyu Wei. “**Reasoning Chain Based Adversarial Attack for Multi-hop Question Answering.**” Preprint [\[pdf\]](#)

TEACHING

Introduction to Artificial Intelligence (TA), Fudan University *Spring 2018, 2019, Fall 2019*
Introduction to Algorithm (TA), Fudan University *Fall 2018*

PROFESSIONAL SERVICE

Co-Organizer

Program Committee Chair of CSSNLP 2021, Organizing Committee of CSSNLP 2020

Program Committee (Reviewer)

ACL Rolling Review 2021-2023, ACL, AAAI, IJCAI, EMNLP, NAACL, NLPC, IEEE/ACM Trans. on ASLP(TASLP), ACM Trans. on ALLIP (TALLIP)

Invited Talk

“How to Cope with the Changes Brought about by LLMs?” *CCAC 2023 Student Seminar*
 “A Brief Probe on Writing an Academic Rebuttal.” *CCL 2021 Student Seminar*

AWARDS AND HONORS

Outstanding Graduates

Outstanding Graduates of Shanghai *Jun 2023*
 Outstanding Graduates of Fudan University *Jun 2018*

Scholarship

MobTech Scholarship *Oct 2022*
 Outstanding Student Scholarship (Grade 1) *Oct 2021*
 Outstanding Student Scholarship (Grade 1) *Oct 2020*
 Bank of Communications Scholarship (Grade 1) *Oct 2019*