SEN YANG 杨森

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EDUCATION

The Chinese University of Hong Kong *Aug 2022 - Jul 2026 (expected)*

- PhD Candidate, Department of Systems Engineering and Engineering Management
  Supervisor: Prof. Wai Lam

Xi'an Jiaotong University *Sep 2013 - Jun 2019*

- B.Eng. in Automation, School of Electronic and Information Engineering

- Honors Youth Program, Qian Xuesen College

WORK EXPERIENCE

Westlake University *Nov 2020 – Jun 2022*

- **Research Assistant (Full-Time)**, Text Intelligence Lab

- Supervisor: Prof. Yue Zhang

- Conducted research in natural language processing (NLP), focusing on syntactic parsing.

- Contributed to the NSFC project: 面向成分句法分析的跨领域知识抽取与融合 *(Cross-domain Knowledge Extraction and Fusion for Constituency Parsing).*

RESEARCH PAPERS

(* indicates equal contribution.)

Preprints:

[1] Multi-LLM Collaborative Search for Complex Problem Solving
- **Sen Yang**, Yafu Li, Wai Lam, Yu Cheng
- *arXiv preprint 2025*
- Links: [Paper]

[2] Atomic Calibration of LLMs in Long-Form Generations
- Caiqi Zhang, Ruihan Yang, Zhisong Zhang, Xinting Huang, **Sen Yang**, Dong Yu, Nigel Collier
- *arXiv preprint 2024*
- Links: [Paper]

[3] Do Prompts Solve NLP Tasks Using Natural Language?
- **Sen Yang***, Yunchen Zhang*, Leyang Cui and Yue Zhang
- *arXiv preprint 2022*
- Links: [Paper]

Publications:

[1] LoGU: Long-form Generation with Uncertainty Expressions
- Ruihan Yang, Caiqi Zhang, Zhisong Zhang, Xinting Huang, **Sen Yang**, Nigel Collier, Dong Yu, Deqing Yang
- *ACL 2025*
- Links: [Paper]

[2] Neuro-Symbolic Integration Brings Causal and Reliable Reasoning Proofs
  ○ **Sen Yang**, Xin Li, Leyang Cui, Lidong Bing, Wai Lam
  ○ *NAACL 2025 (Findings)*
  ○ Links: [Paper] [Code]

[3] Not All Preference Pairs Are Created Equal: A Recipe for Annotation-Efficient Iterative Preference Learning
  ○ **Sen Yang**, Leyang Cui, Deng Cai, Xinting Huang, Shuming Shi, Wai Lam
  ○ *EMNLP 2024 (Findings)*
  ○ Links: [Paper]

[4] SeaLLMs –Large Language Models for Southeast Asia
  ○ Xuan-Phi Nguyen*, Wenxuan Zhang*, Xin Li*, Mahani Aljunied*, Qingyu Tan, Liying Cheng, Guanzheng Chen, Yue Deng, **Sen Yang**, Chaoqun Liu, Hang Zhang, Lidong Bing
  ○ *ACL 2024: System Demonstrations*
  ○ Links: [Paper] [Code] [Demo]

[5] Once Upon a *Time* in *Graph*: Relative-Time Pretraining for Complex Temporal Reasoning
  ○ **Sen Yang**, Xin Li, Lidong Bing and Wai Lam
  ○ *EMNLP 2023*
  ○ Links: [Paper] [Code]

[6] Enhancing Grammatical Error Correction Systems with Explanations
  ○ Yuejiao Fei, Leyang Cui, **Sen Yang**, Wai Lam, Zhenzhong Lan and Shuming Shi
  ○ *ACL 2023*
  ○ Links: [Paper] [Dataset]

[7] Cross-domain Generalization for AMR Parsing
  ○ Xuefeng Bai, **Sen Yang**, Leyang Cui, Linfeng Song and Yue Zhang
  ○ *EMNLP 2022*
  ○ Links: [Paper] [Code]

[8] Challenges to Open-Domain Constituency Parsing
  ○ **Sen Yang**, Leyang Cui, Ruoxi Ning, Di Wu and Yue Zhang
  ○ *ACL 2022 (Findings)*
  ○ Links: [Paper] [Dataset]

[9] Investigating Non-local Features for Neural Constituency Parsing
  ○ Leyang Cui*, **Sen Yang*** and Yue Zhang
  ○ *ACL 2022*
  ○ Links: [Paper] [Code]

[10] Template-Based Named Entity Recognition Using BART
  ○ Leyang Cui, Yu Wu, Jian Liu, **Sen Yang** and Yue Zhang
  ○ *ACL 2021 (Findings)*
  ○ Links: [Paper] [Code]

[11] Making the Best Use of Review Summary for Sentiment Analysis
  ○ **Sen Yang***, Leyang Cui*, Jun Xie and Yue Zhang
  ○ *COLING 2020*
  ○ Links: [Paper] [Code]

[12] What Have We Achieved on Text Summarization?
  ○ Dandan Huang*, Leyang Cui*, **Sen Yang***, Guangsheng Bao, Kun Wang, Jun Xie and Yue Zhang

- *EMNLP 2020*
- Links: [Paper] [Code & Data]

INTERNSHIPS

Alibaba Qwen *May 2025 – Present*

- Algorithm Engineer Intern, Pre-training Group, mentored by Dr. Dayiheng Liu.

- Focus: Pre-training data curation and reasoning capabilities of large language models.

Shanghai AI Laboratory *Oct 2024 – Feb 2025*

- Research Intern, mentored by Dr. Yafu Li and Prof. Yu Cheng

- Focus: Natural language reasoning and model generalization.

Tencent AI Lab *Feb 2024 – Jul 2024*

- Research Intern, mentored by Dr. Leyang Cui and Dr. Shuming Shi

- Focus: Large language model alignment and instruction optimization.

Alibaba DAMO Academy *Jan 2023 – Jan 2024*

- Research Intern, mentored by Dr. Xin Li and Dr. Lidong Bing

- Focus: Natural language reasoning and multi-hop understanding.

Westlake University *Apr 2019 – Jan 2020*

- Undergraduate Research Intern, Text Intelligence Lab

- Supervisor: Prof. Yue Zhang

- Focus: Sentiment analysis and text summarization.