

Yiming Wang (王一鸣)

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Address: No.800 Dongchuan Road, Minhang District, Shanghai, China

Education

Shanghai Jiao Tong University (SJTU)

School of Computer and Science, Ph.D. Candidate

2023.09 – Present

Shanghai, China

- Supervised by Rui Wang, collaborated with Zhuosheng Zhang
- Research Direction: Large Language Models

Beihang University (BUAA)

School of Artificial Intelligence, B.Eng.

2019.09 – 2023.06

Beijing, China

- GPA: 3.83 / 4.00; Ranking: 1/35
- Courses with 99+ scores: Mathematical Analysis, Discrete Mathematics, Data Structures, etc.
- Outstanding Graduate of Beijing (top 5%)

Internship

Qwen Team, Alibaba Inc.

Research Intern

2024.07 – 2025.07

Hangzhou, China

- Supervised by Baosong Yang
- Optimize Qwen's **multilingual** capabilities, mainly in reasoning and multimodality
- One of the **Qwen3** contributors

Institute of AI Industry Research (AIR), Tsinghua University

Research Intern

2023.03 – 2023.09

Beijing, China

- Supervised by Hao Zhou, collaborated with Yuxuan Song
- Focus on AI for Science and propose a diffusion-based model for molecular retrosynthesis

Research Interests

- **LLM Reasoning:** Capability Enhancement, Reasoning Interpretability, Efficient Reasoning
- **Self-Evolving LLMs:** Few-Shot Generalization, Test-Time Scaling, Self-Rewarding RL

Selected Publications

- [1] **PolyMath: Evaluating Mathematical Reasoning in Multilingual Contexts**
Yiming Wang, Pei Zhang, Jialong Tang, Haoran Wei, Baosong Yang, Rui Wang, Chenshu Sun, Feitong Sun, Jiran Zhang, Junxuan Wu, Qiqian Cang, Yichang Zhang, Fei Huang, Junyang Lin, Fei Huang, Jingren Zhou
NeurIPS 2025. **Incorporated into the official benchmark of the Qwen3 family; Citation 50+**
- [2] **Sampling-Efficient Test-Time Scaling: Self-Estimating the Best-of-N Sampling in Early Decoding**
Yiming Wang, Pei Zhang, Siyuan Huang, Baosong Yang, Zhuosheng Zhang, Fei Huang, Rui Wang
NeurIPS 2025. **Spotlight; Citation 60+**
- [3] **Latent Space Chain-of-Embedding Enables Output-free LLM Self-Evaluation**
Yiming Wang, Pei Zhang, Baosong Yang, Derek F. Wong, Rui Wang
ICLR 2025. **Citation 60+**
- [4] **RetroDiff: Retrosynthesis as Multi-stage Distribution Interpolation**
Yiming Wang, Yuxuan Song, Yiqun Wang, Minkai Xu, Rui Wang, Hao Zhou, Wei-Ying Ma
AISTATS 2025.
- [5] **Igniting Language Intelligence: The Hitchhiker's Guide From Chain-of-Thought Reasoning to Language Agents**
Zhuosheng Zhang, Yao Yao, Aston Zhang, Xiangru Tang, Xinbei Ma, Zhiwei He, Yiming Wang, Mark Gerstein, Rui Wang, Gongshen Liu, Hai Zhao
ACM Computing Surveys 2025. **SCI Q1, IF=23.8; Citation 150+**

- [6] **Embedding Trajectory for Out-of-Distribution Detection in Mathematical Reasoning**
Yiming Wang, Pei Zhang, Baosong Yang, Derek F. Wong, Zhuosheng Zhang, Rui Wang
NeurIPS 2024.
- [7] **Meta-Reasoning: Semantics-Symbol Deconstruction for Large Language Models**
Yiming Wang, Zhuosheng Zhang, Pei Zhang, Baosong Yang, Rui Wang
ACL 2024 Findings.
- [8] **R-Judge: Benchmarking Safety Risk Awareness for LLM Agents**
Tongxin Yuan, Zhiwei He, Lingzhong Dong, **Yiming Wang**, Ruijie Zhao, Tian Xia, Lizhen Xu, Binglin Zhou, Fangqi Li, Zhuosheng Zhang, Rui Wang, Gongshen Liu
EMNLP 2024 Findings. **Citation 300+**
- [9] **Element-aware Summarization with Large Language Models: Expert-aligned Evaluation and Chain-of-Thought Method**
Yiming Wang, Zhuosheng Zhang, Rui Wang
ACL 2023. **Citation 150+**
- [10] **Noise-injected Consistency Training and Entropy-constrained Pseudo Labeling for Semi-supervised Extractive Summarization**
Yiming Wang, Qianren Mao, Junnan Liu, Weifeng Jiang, Hongdong Zhu, Jianxin Li
COLING 2022.

Academic Service

Reviewer

- ICML (2026 –), NeurIPS / ICLR / AAAI (2025 –), ACL ARR Rolling / IEEE TASLP (2024 –)

Teaching Assistant, Shanghai Jiao Tong University

- Natural Language Processing and Large Language Model (2024 – 2025, for the John Class)

Teaching Assistant, Beihang University

- Cognitive Basis (2022)
- Advanced Linear Algebra (2020 – 2022, Outstanding TA for Algebra Courses)

Honors and Awards

Outstanding Graduate of Beijing (top 5%)	2023
First-Class Academic Scholarship	2020 – 2022
Ministry of Education-Huawei “Future Star” Joint Commendation Scholarship	2021
The 1 st Prize in Beijing of Chinese Mathematics Competitions for College Students	2020
The 1 st Prize in Jiangsu Province of Chinese High School Mathematics League	2018