

# CHENG QIAN

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## EDUCATION

- 
- University of Illinois, Urbana-Champaign, Ph.D.** 2024 – Present
- Member of **UIUCNLP**, advised by Professor Heng Ji.
- Tsinghua University, Undergraduate** 2020 – 2024
- B.Eng. in Computer Science and Technology (GPA: 3.90 / 4.00)
- Member of **THUNLP**, advised by Associate Professor Zhiyuan Liu.
  - Research Interest: Natural Language Processing, Tool Learning, LLM Agent



## PUBLICATIONS

- 
- Bingxiang He\*, Ning Ding\*, **Cheng Qian\***, Jia Deng, Ganqu Cui, Lifan Yuan, Huan-ang Gao, Huimin Chen, Zhiyuan Liu, Maosong Sun. [Zero-Shot Generalization during Instruction Tuning: Insights from Similarity and Granularity](#). NeurIPS 2024 Under Review.
  - Yaxi Lu, Shenzhi Yang, **Cheng Qian**, Guirong Chen, Qinyu Luo, Yesai Wu, Huadong Wang, Xin Cong, Zhong Zhang, Yankai Lin, Zhiyuan Liu, Fangming Liu, Maosong Sun. Proactive Agent: Learning to Proactively Predict Implicit Human Intents. EMNLP 2023 Under Review.
  - **Cheng Qian\***, Bingxiang He\*, Zhong Zhuang, Jia Deng, Yujia Qin, Xin Cong, Zhong Zhang, Jie Zhou, Yankai Lin, Zhiyuan Liu, Maosong Sun. [Tell Me More! Towards Implicit User Intention Understanding of Language Model Driven Agents](#). ACL 2024.
  - **Cheng Qian**, Xinran Zhao, Sherry Tongshuang Wu. [“Merge Conflicts!” Exploring the Impacts of External Distractors to Parametric Knowledge Graphs](#). COLM 2024.
  - **Cheng Qian**, Chenyan Xiong, Zhenghao Liu, Zhiyuan Liu. [Toolink: Linking Toolkit Creation and Using through Chain-of-Solving on Open-Source Model](#). NAACL 2024 Main.
  - **Cheng Qian**, Chi Han, Yi R. Fung, Yujia Qin, Zhiyuan Liu, Heng Ji. [CREATOR: Disentangling Abstract and Concrete Reasonings of Large Language Models through Tool Creation](#). Findings of EMNLP 2023.
  - Yujia Qin, Shengding Hu, ..., **Cheng Qian**, ..., Tongshuang Wu, Heng Ji, Zhiyuan Liu, Maosong Sun. [Tool Learning with Foundation Models](#).
  - **Cheng Qian\***, Yujia Qin\*, Xu Han, Yankai Lin, Huadong Wang, Ruobing Xie, Zhiyuan Liu, Maosong Sun, Jie Zhou. [Recyclable Tuning for Continual Pre-training](#). Findings of ACL 2023.
  - **Cheng Qian\***, Yujia Qin\*, Jing Yi\*, Weize Chen, Yankai Lin, Xu Han, Zhiyuan Liu, Maosong Sun, Jie Zhou. [Exploring Mode Connectivity for Pretrained Language Models](#). EMNLP 2022.



## SELECTED AWARDS & HONORS

- 
- December-9th Scholarship, highest scholarship in Dept. of CST, **1 / 180**. 2021
  - Volunteering & Social Survey Excellence Scholarship, Dept. of CST, **1 / 180**. 2022
  - Awards of Excellent Student Cadre, Tsinghua University. 2021
  - Third Prize in THU Challenge Cup Academic Competition, Tsinghua University. 2022
  - Honorable Mention in 2023 Mathematical Contest in Modeling 2023



## SKILLS

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- TOEFL 115/120 (Reading 30, Listening 30, Speaking 26, Writing 29).
  - GRE Verbal Reasoning 162/170, Quantitative Reasoning 170/170, Analytical Writing 4/6.
  - Proficient in C/C++, Python(PyTorch), LaTeX, Linux, Java, React.
  - Familiar with various neural networks and state-of-the-art deep learning techniques.