Guangsheng Bao

PhD Candidate
Natural Language Processing
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 GitHub Profile

INTRODUCTION

I am Guangsheng Bao, a Ph.D. candidate jointly enrolled at **Westlake University** and **Zhejiang University**, under the guidance of Prof. **Yue Zhang**. My primary research interests lie in the field of **trustworthy NLP**, encompassing topics such as model **generalization**, the creation of **explainable and controllable** NLP systems, ensuring the **safe** application of LLMs, and understanding the **reasoning** capabilities of LLMs. I have disseminated my research outcomes across a range of publications presented at esteemed conferences including ACL, ICLR, EMNLP, TASLP, and AAAI. I have also actively participated in the academic community by serving as a reviewer for conferences like ACL, EMNLP, ICML, NIPS, TACL, COLING, and others, and as an Area Chair for COLING 2022.

Prior to my pursuit of scientific research, I gained industry experience with positions at **Alibaba**, where I worked on customer service robot systems, and at **Microsoft** (China), where I contributed to the development of Cortana.

PUBLICATIONS

- **Conference proceedings:**   *2020 - present*

  Guangsheng Bao*, Hongbo Zhang*, Linyi Yang, Cunxiang Wang, Yue Zhang. 2024. **LLMs with Chain-of-Thought Are Non-Causal Reasoners.** *(under submission)*

  Guangsheng Bao, Yanbin Zhao, Zhiyang Teng, Linyi Yang, Yue Zhang. 2024. **Fast-DetectGPT: Efficient Zero-Shot Detection of Machine-Generated Text via Conditional Probability Curvature.** *The Twelfth International Conference on Learning Representations (**ICLR2024**).*

  Linyi Yang, Shuibai Zhang, Zhuohao Yu, **Guangsheng Bao**, Yidong Wang, Jindong Wang, Ruochen Xu, Wei Ye, Xing Xie, Weizhu Chen, Yue Zhang. 2024. **Supervised Knowledge Makes Large Language Models Better In-context Learners** *The Twelfth International Conference on Learning Representations (**ICLR2024**).*

  Guangsheng Bao, Zebin Ou, Yue Zhang. 2023. **GEMINI: Controlling The Sentence-Level Summary Style in Abstractive Text Summarization.** *In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (**EMNLP2023**).*

  Guangsheng Bao*, Zhiyang Teng*, Hao Zhou, Jianhao Yan, Yue Zhang. 2023. **Non-Autoregressive Document-Level Machine Translation.** *In Findings of the 2023 Conference on Empirical Methods in Natural Language Processing (**EMNLP2023 Findings**).*

  Guangsheng Bao, Zhiyang Teng, and Yue Zhang. 2023. **Target-Side Augmentation for Document-Level Machine Translation.** *In Proceedings of the 61th Annual Meeting of the Association for Computational Linguistics (**ACL2023**).*

  Guangsheng Bao, Zhiyang Teng, and Yue Zhang. 2023. **Token-Level Fitting Issues of Seq2seq Models.** *In Proceedings of the 8th Workshop on Representation Learning for NLP (**RepL4NLP at ACL2023**).*

  Guangsheng Bao, Yue Zhang, Zhiyang Teng, Boxing Chen and Weihua Luo. 2021. **G-Transformer for Document-Level Machine Translation.** *In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (**ACL2021, Oral**).*

  Guangsheng Bao and Yue Zhang. 2021. **Contextualized Rewriting for Text Summarization.** *In Proceedings of the AAAI Conference on Artificial Intelligence (**AAAI2021**).*

  Dandan Huang, Leyang Cui, Sen Yang, **Guangsheng Bao**, Kun Wang, Jun Xie and Yue Zhang. 2020.

What Have We Achieved on Text Summarization? *In Proceedings of the Conference on Empirical Methods in Natural Language Processing (**EMNLP2020**).*

- **Journal articles:**   *2023 - present*

  Guangsheng Bao, Yue Zhang. 2023. **A General Contextualized Rewriting Framework for Text Summarization.** *In IEEE/ACM Transactions on Audio, Speech and Language Processing (**TASLP2023**).*

EDUCATION

- **Westlake University, China**   *Sep.2022 - present*
  Ph.D. candidate, natural language processing

- **University of Science and Technology of China**   *Sep.2005 - Jan.2008*
  MEng, software engineering

- **HeFei University of Technology, China**   *Sep.2000 – Jun.2004*
  BEng, computer science

EMPLOYMENT

- **Text Intelligence Lab, Westlake University**   *Jun.2019 - Aug.2022*
  Research Assistant   Hangzhou
  - Research: text summarization, neural machine translation, and coreference resolution.
  - Published two first-author long papers during the period, including AAAI 2021 and ACL 2021 (Oral).

- **Institute of Data Science and Technologies, Alibaba**   *Mar.2015 - Jun.2017*
  Algorithm Expert   Hangzhou
  - Research & development: online customer service robot system and hotline customer service robot system.
  - Investigated the latest Question Answering techniques and built them into the solution for customer service.

- **Information Platform Group, Microsoft (China)**   *Spr.2013 – Feb.2015*
  Software Development Engineer   Suzhou
  - Research & development: Natural Language Understanding (NLU) engine for Cortana.
  - Led several virtual teams working on training/testing/deployment tools and producing NLU models for languages such as Spanish, French, Italian, etc.

- **Exchange Server group, Microsoft (China)**   *Jan.2008 – Mar.2013*
  Software Development Engineer   Beijing
  - Software design & development: Manageability for Exchange server.
  - Contributed to two complete release cycles of Exchange Server 2010 and Office 365.

OTHER EXPERIENCE

- **Travel & Self-study in Edinburgh**   *Jul.2017 - Jun.2018*
  Visitor   Edinburgh
  - I accompanied my wife on a visiting scholarship at the University of Edinburgh during the period. I took the chance to explore my interests and studied some philosophy and cognitive science theories.
  - I explored cognitive science theories and tried to build a big picture of it, studying several topics such as sensation, perception, imagination, conception, and language.
  - I found my passion for these topics, so I decided to pursue a research opportunity on natural language processing.

TECHNICAL SKILLS AND INTERESTS

Languages: English (IELTS 7.0), Chinese (native speaker).
Developer Tools: Python, C++.
Soft Skills: Cross-team collaboration, Team leading.
Areas of Interest: AI, Robotics, Neural Science, Psychology.