

YU BAI

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ybai-nlp.github.io · Google Scholar · Github

RESEARCH INTERESTS

Cross-Lingual Summarization; Natural Language Generation.

- My current research interest is Text Summarization and Cross-Lingual Summarization (CLS) on new domain data and low resource languages. I think the main problem here is the scarcity of the specific parallel data. Hence, I am planning to improve this task from two perspectives.
- The first is to leverage extra data from similar tasks to enhance the performance of these summarization tasks.
- The second is to investigate the implicit attributes of the summarization task. These attributes can be potentially utilized to improve the generalization ability of CLS models.

EDUCATION

Beijing Institute of Technology, Beijing, China 2019.09 - Now

- *Ph.D. Student of Computer Science and Technology.*
- *Adviser: Prof. Yang Gao; Prof. Heyan Huang.*
- **Grades:** 3.91/4 **Rank:** 1/149

China University of Geosciences (Beijing), Beijing, China 2015.09 - 2019.06

- *B.S. in Computer Science and Technology.*

PUBLICATIONS

Cross-Lingual Abstractive Summarization with Limited Parallel Resources

Yu Bai, Yang Gao, Heyan Huang.

The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021).

arXiv:2105.13648.

Unifying Cross-lingual Summarization and Machine Translation with Compression Rate

Yu Bai, Heyan Huang, Kai Fan, Yang Gao, Yiming Zhu, Jiaao Zhan, Zewen Chi, Boxing Chen.

The 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR 2022).

arXiv:2110.07936.

Exploring Explainable Selection to Control Abstractive Summarization

Haonan Wang, Yang Gao, **Yu Bai**, Mirella Lapata, Heyan Huang.

The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21).

arXiv:2004.11779.

Stage-wise Stylistic Headline Generation: Style Generation and Summarized Content Insertion

Jiaao Zhan, Yang Gao, **Yu Bai**, Qianhui Liu.

Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence Main Track (IJCAI 2022).

DOI:10.24963/ijcai.2022/623.

Multiple Perspective Answer Reranking for Multi-passage Reading Comprehension

Mucheng Ren, Heyan Huang, Ran Wei, Hongyu Liu, **Yu Bai**, Yang Wang, Yang Gao.

The 8th CCF International Conference on Natural Language Processing and Chinese Computing (NLPC 2019).

DOI:10.1007/978-3-030-32236-6_6w7.

PSP: Pre-trained Soft Prompts for Few-Shot Abstractive Summarization

Xiaochen Liu, **Yu Bai**, Jiawei Li, Yinan Hu, Yang Gao

arXiv Preprint. (Submitted to COLING 2022).

arXiv:2204.04413.

Non-autoregressive Translation with Dependency-Aware Decoder

Jiaao Zhan, Qian Chen, Boxing Chen, Wen Wang, **Yu Bai**, Yang Gao
arXiv Preprint. (Submitted to ICML 2022).
arXiv:2203.16266.

Cross-Lingual Language Model Meta-Pretraining

Zewen Chi, Heyan Huang, Luyang Liu, **Yu Bai**, Xian-Ling Mao.
arXiv Preprint.
arXiv:2109.11129.

COMPETITIONS

Collegiate Programming Contests

2017.10-2017.12

- **Bronze Medal** in ACM/ICPC Asia Regional Qingdao Site 2017.
- **Bronze Medal** in ACM/ICPC Asia Regional Nanning Site 2017.
- **Bronze Medal** in The 3rd China Collegiate Programming Contest (Harbin), 2017.

2019 Language and Intelligence Challenge: Machine Reading Comprehension

2019.03-2019.05

- **Bronze Award** Rank 5.
- Participated in the competition with four partners and designed a multi-document reading comprehension system. The model performed well by applying BERT and posterior knowledge to rerank the answers. The method used in the competition was published in NLPCC 2019. I am mainly responsible for the emotional polarity judgment model (positive/negative) in the system and the writing of related parts of the paper.

HONORS AND AWARDS

First-class Ph.D. Academic Scholarship, BIT

- This award program recognizes top 5 Ph.D. students majored in computer science every year.

First-class Undergraduate Scholarship, CUGB

- Scholarship for undergraduate students, selects top 5% by last semester's GPA.

PROFESSIONAL ACTIVITIES

Program Committee / Reviewer

- ACL Rolling Review, EMNLP 2022, CCL 2022, ACL 2021, AACL 2021, EMNLP 2021...

Student Program Committee

- NLGIW 2021 (The Conference of Natural Language Generation and Intelligent Writing).

TEACHING

Selected Topics In New Technology for Computer.

2019.09 - 2021.09

- **Beijing Institute of Technology**, Beijing, China.
- **Teaching Assistant**.

ICPC Algorithm Design.

2018.03 - 2018.12

- **China University of Geosciences (Beijing)**, Beijing, China.
- Served as a student instructor to a team of contestants training for the ACM-sponsored international collegiate programming contest, gave regular lectures of advanced algorithm design and analysis.

PROGRAMMING LANGUAGES

- Python, C/C++, \LaTeX , Java, Bash under Linux/Unix.
- PyTorch, Keras.