Beiduo Chen

PERSONAL

- **Email**: beiduo@mail.ustc.edu.cn   beiduochen@gmail.com
- **Phone**: (+86) 18356503893
- **Homepage**: http://home.ustc.edu.cn/~beiduo/   https://mckysse.github.io/
- **GitHub**: https://github.com/mckysse

EDUCATION

University of Science and Technology of China — Anhui, China
Master of Engineering in Information and Communication Engineering, supervised by Prof. Wu Guo — *Sep 2020 - Jun 2023*
Master Thesis: A Study on Multilingual Representation Learning and Application based on Pre-trained Language Model — *GPA: 3.93/4.3, top **1**%*

University of Science and Technology of China — Anhui, China
Bachelor of Engineering in Electronic and Information Engineering — *Sep 2016 - Jun 2020*
Bachelor Thesis: Speaker Recognition based on Depth Features — *GPA: 3.75/4.3, top **3**%*

EXPERIENCE

Microsoft Research Asia — Beijing, China
Research intern, hosted by Shaohan Huang — *Jun 2022 - Jan 2023*

- Research at the natural language computing group, focus on pre-training methods based on ELECTRA.
- Design a multi-perspective course learning framework with large-scale computational deployment, published on ACL 2023.
- Propose a course soups method to further improve pre-training efficiency and performance.

iFLYTEK Research — Anhui, China
Research intern, hosted by Quan Liu — *Jun 2021 - Mar 2022*

- Research at the state key laboratory of cognitive intelligence, focus on multilinguality.
- Participate in the multilingual project of the Beijing Winter Olympics and publish several top conference papers during the internship.
- Participate in the SemEval 2022 task 11 and develop the winner system over 3 tracks as the first author.

PUBLICATIONS

- **Beiduo Chen**, Shaohan Huang, Zihan Zhang, Wu Guo, Zhenhua Ling, Haizhen Huang, Furu Wei, Weiwei Deng and Qi Zhang. Pre-training Language Model as a Multi-perspective Course Learner. Findings of The 61st Annual Meeting of the Association for Computational Linguistics (ACL). 2023.

- **Beiduo Chen**, Wu Guo, Bin Gu, Quan Liu, Yongchao Wang. Multi-Level Contrastive Learning for Cross-Lingual Alignment. 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). 2022.

- Jun-Yu Ma*, **Beiduo Chen***, Jia-Chen Gu, Zhenhua Ling, Wu Guo, Quan Liu, Zhigang Chen and Cong Liu. Wider & Closer: Mixture of Short-channel Distillers for Zero-shot Cross-lingual Named Entity Recognition. The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP). 2022.

- **Beiduo Chen**, Wu Guo, Quan Liu, Kun Tao. Feature Aggregation in Zero-Shot Cross-Lingual Transfer Using Multilingual BERT. The 26th International Conference on Pattern Recognition (ICPR). 2022.

- **Beiduo Chen**, Jun-Yu Ma, Jiajun Qi, Wu Guo, Zhen-Hua Ling, Quan Liu. USTC-NELSLIP at SemEval-2022 Task 11: Gazetteer-Adapted Integration Network for Multilingual Complex Named Entity Recognition. The 16th International Workshop on Semantic Evaluation (SemEval) at 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL). 2022.

SHARED TASKS

- 2022, Rank 1st on three tracks (Chinese, Code-mixed and Bangla), and rank 2nd on the other ten tracks in the 16th International Workshop on Semantic Evaluation (SemEval-2022) Task 11 Multilingual Complex Named Entity Recognition, as the first author.

PATENT

- **Beiduo Chen**, Qingqing Huang, Jun Du. Multi-Feature Fusion Method for Neural Machine Translation Error Detection Based on Data Enhancement Training. Patent of China National Intellectual Property Administration (CNIPA). 2021.

HONORS

- 2023, Outstanding Graduate Award of University of Science and Technology of China.
- 2023, Outstanding Graduate Award of Ordinary Colleges and Universities in Anhui Province.
- 2022, China National Scholarship.
- 2020, Suzhou Yucai Scholarship: Top 1 GPA in the class (1/120).
- 2019, Scholarship of the Institute of Electrics, Chinese Academy of Sciences.
- 2018, The third prize (provincial) in Contemporary Undergraduate Mathematical Contest in Modeling of China.
- 2017, Gold Award for Outstanding Student.

SERVICE

- Program committee/reviewing for Conferences: ACL 2023, ICASSP 2022, ICPR 2022.
- Teaching assistant: Signals and Systems (210049, 210049.05, USTC, 2021), Computer Programming A (CS1001A, 210522.02, USTC, 2019), Electromagnetism C (PHYS1004C, 022503.03, USTC, 2018).