Xi Ai

CHINESE

✉ barid.x.ai@gmail.com

Overall Performance

- 5-year work experience of NLP engineering.
- 5-year NLP research on machine translation, language modeling, multilingual training and ML for NLP.
- 8-year experience of implementing ML and NLP projects with TensorFlow and Python.
- https://orcid.org/0000-0002-4241-3837

Education

Northumbria University   *Newcastle, UK*

BSc，COMPUTER SCIENCE   *Sep. 2008 - Jul. 2012*

University of Edinburgh   *Edinburgh , UK*

MSc，COMPUTER SCIENCE   *Sep. 2012 - Dec. 2013*

Chongqing University   *Chongqing, China*

PH.D，COMPUTER SCIENCE   *Sep. 2018 - Sep. 2023*

Research Field

1   Language Modeling
2   Multilingual Training
3   Machine Translation
4   Cross-lingual Transfer
5   ML for NLP

Award

2023   **Outstanding Reviewer**, ACL 2023   *Reviewer*
2019   **2nd Award**, National AI Challenger 2019, Chinese Academy of Science   *Team Supervisor*
2019   **2nd Award**, National Conference of Student on Innovation and Entrepreneurship 2019   *Team Supervisor*
2018   **Scholarship**, Fully funded Ph.D   *Ph.D*

Publication

1	Ai, X., & Fang, B., "On-the-fly Cross-lingual Masking in Multilingual Training", ACL 2023, link
2	Ai, X., & Fang, B., "Multilingual Training with Globe Concurrence Information", Findings of ACL 2023, link
3	Ai, X., & Fang, B., "Leverage Relaxed Equilibrium for Sequence Modeling", ACL 2022, link
4	Ai, X., & Fang, B., "Vocabulary-informed Language Encoding", COLING 2022, link
5	Ai, X., & Fang, B., "Almost Free Semantic Draft for Neural Machine Translation", NAACL 2021, link
6	Ai, X., & Fang, B., "Empirical Regularization for Synthetic Sentence Pairs in Unsupervised Neural Machine Translation", AAAI 2021, link
7	Ai, X., & Fang, B., "Cross-modal Language Modeling in Multi-motion-informed Context for Lip Reading", IEEE/ACM Transactions on Audio, Speech and Language Processing, link

Work Experience

Travel Sky *Chongqing*

DATA ENGINEER *02 2014 - 04 2015*

- I was responsible to extract a wide range of information from users' feedback and system logs.

SPIC AI lab *Chongqing*

NLP ENGINEER *09 2015 - 08 2018*

- I led a team (most of them are interns) to develop our algorithms (e.g., QA algorithms) for an online chatbot.

Committees

Conference Reviewer NAACL; ACL; ACL ARR; EMNLP (both main and industry track); AAAI

Journal Reviewer Knowledge-based Systems

Teaching and Tutoring

High school Level	Math teacher (2 month volunteer) in Cambodia.
Undergraduate Level	Tutor for NLP basics. I contributed to preparing and teaching all the materials.
Undergraduate Level	Tutor for machine learning. I contributed to preparing and teaching all the materials.
Undergraduate Level	Team supervisor for national competitions. I supervised two teams for national competitions.
Postgraduate Level	Supervisor for publications. I supervised two teams in Language + X research (e.g., language + vision). A recent publication: ICIP 2023, "A GLOBAL-LOCAL CONTRASTIVE LEARNING FRAMEWORK FOR VIDEO CAPTIONING"
Postgraduate Level	Guest lecturer for advanced NLP. I contributed to preparing and teaching topics in machine translation and language modeling.
Postgraduate Level	Guest lecturer for deep learning. I contribute to preparing and teaching a topic in sequence modeling.
Postgraduate Level	Tutor for sequence modeling. I contributed to preparing and teaching all the materials.
Postgraduate Level	Tutor for language modeling (including LLM and multilingual LLM). I contributed to preparing and teaching all the materials.