YUBO ZHANG

+1(213)292-1936 ⋄ yuboz@usc.edu ⋄ https://yb-z.github.io

EDUCATION

University of Southern California *2023 - Present*
Department of Computer Science
PhD Student
Advisors: Dr. Jieyu Zhao and Dr. Muhao Chen

The Hong Kong Polytechnic University *2019 - 2023*
Department of Computing
BSc (Hons) Financial Technology & Artificial Intelligence GPA: 3.65/4.3 (First Class Honours)
Minor in Applied Mathematics
Advisor: Dr. Jing Li

RESEARCH EXPERIENCE

Microsoft Research Asia (MSRA) - NLC Group *Mar 2022 - Oct 2022*
Research Internship
Mentor: Dr. Xingxing Zhang

- Latent Prompt Tuning for Text Summarization
  This project studies controllable text summarization and proposes LOTUS which is a single summarization model that can be applied in both "controlled" mode (allowing user-specified requirements) and "uncontrolled" mode (higher qualities compared to uncontrollable baselines).

- Summarization Data Mining
  This project studies how to automatically mine large-scale naturally occurring summarization data (i.e., document-summary pairs) from large online corpora for pre-training.

PolyU - Social Media Analysis Research Group *Jun 2020 - Jun 2023*
Undergraduate Research Student
Supervisor: Dr. Jing Li

- Doctor Recommendation on Medical Forums (ACL2022)
  Supported by PolyU Undergraduate Research and Innovation Scheme with funding HK$30,000 and scholarship HK$10,000
  This project studies a novel task of doctor recommendation to enable automatic pairing of a patient to a doctor with relevant expertise.

- Social Media Hashtag Recommendation (EMNLP2021)
  This project studies hashtag personalization which explores users' hashtagging preferences and predicts how likely a user will put a hashtag in their future posts (henceforth user-hashtag engagements)

The Chinese University of Hong Kong - Cintec and Dept. of SEEM *Jun 2021 - Aug 2021*
Honorary Junior Research Assistant
Supervisor: Prof. Kam-fai Wong

- Explainable AI (XAI) survey: Conduct comprehensive reviews of cutting-edge research papers in the field of XAI and present my analytical insights during weekly team meetings. These insights contribute to our proposals for applying RGC funding from Hong Kong Government.

- A Customisable Multi-turn Chatbot Based on Query-context Attentions and Few Shot Learning: Participate in the research of our dialogue system. Develop a physical robot by utilizing Misty Robotics platform, and integrated it with our customized dialogue system.

PUBLICATIONS

Pre-print

1. *Yubo Zhang*, Xingxing Zhang, Xun Wang, Si-qing Chen, Furu Wei
   Latent Prompt Tuning for Text Summarization
   arXiv preprint

Published

1. Xiaoxin Lu*, *Yubo Zhang**, Jing Li, Shi Zong **(*Equal Contribution)**
   Doctor Recommendation in Online Health Forums via Expertise Learning
   ACL 2022 (Long-paper, Main Conference).

2. Yuji Zhang, *Yubo Zhang*, Chunpu Xu, Jing Li, Ziyan Jiang, and Baolin Peng
   #HowYouTagTweets: Learning User Hashtagging Preferences via Personalized Topic Attention
   EMNLP 2021 (Long-paper, Main Conference).

HONOURS AND AWARDS

- Outstanding Student Award (Department of Computing, The Hong Kong Polytechnic University)
- HKGov STEM Internship Scholarship
- PolyU URIS Scholarship

SKILLS (SELECTED)

- Language: Mandarin(native), English(fluent), Cantonese(basic)
- Computer Science: Python (NLP related packages: pytorch, Huggingface transformers, Sentence-Transformers, fairseq, faiss, etc.), R, Java, C++, DB, Linux, Git, Docker, LaTeX.