

YUBO ZHANG

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EDUCATION

The Hong Kong Polytechnic University (PolyU)

2019-2023

Department of Computing (COMP)

BSc (Hons) Financial Technology & Artificial Intelligence

Minor in Applied Mathematics

wGPA: 3.72/4.3, cGPA: 3.67/4.3 (**Rank Top 5%**)

Outstanding Student Award (only for one final-year student per year at COMP)

Dean's List 2021-2022

RESEARCH EXPERIENCE

I have broad research interests in Natural Language Processing, Social Computing and Machine Learning.

Microsoft Research Asia (MSRA) - NLC Group

Mentor: Dr. Xingxing Zhang

Mar 2022 - Oct 2022

Research Internship

Beijing

- Latent Prompt Tuning for Text Summarization (ACL2023 under review)

This project studies controllable text summarization and proposes LOTUS (shorthand for **Latent PrOmpt Tuning for Summarization**) 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 (e.g., CC100) for pre-training.

PolyU - Social Media Analysis Research Group (SMART)

Supervisor: Dr. Jing Li

Jun 2020 - Present

Undergraduate Research Student

Hong Kong

- Final Year Project (2022-2023): Poll Question Generation for Social Media Posts

- Doctor Recommendation on Medical Forums (ACL2022)

Supported by PolyU Undergraduate Research and Innovation Scheme (URIS) 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

Supervisor: Prof. Kam-fai Wong

Jun 2021 - Aug 2021

Honorary Junior Research Assistant at Cintec and Dept. of SEEM

Hong Kong

- Explainable AI (XAI) survey

- A Customisable Multi-turn Chatbot Based on Query-context Attentions and Few Shot Learning

PUBLICATIONS

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, Ziyang Jiang, and Baolin Peng
[#HowYouTagTweets: Learning User Hashtagging Preferences via Personalized Topic Attention](#)
EMNLP 2021 (Long-paper, Main Conference).

PRE-PRINTS

1. **Yubo Zhang**, Xingxing Zhang, Xun Wang, Si-qing Chen, Furu Wei
[Latent Prompt Tuning for Text Summarization](#)
arXiv preprint (**ACL2023** under review)

SKILLS

Language	Mandarin(native), English(fluent), Cantonese(basic)
Computer Science:	
- Program Languages	Python (NLP related packages : pytorch, Huggingface transformers, Sentence-Transformers, fairseq, faiss, etc.), Java, R, C++, L ^A T _E X
- Web	HTML/CSS/JavaScript, Django/Flask, WordPress
- Database	MySQL, MongoDB
- Others	Linux, Git, Docker, GPU Linux Server Maintenance, Blockchain, etc.
Math	Calculus, Linear Algebra, Statistics and Probability, Simulation
Finance	Accounting, Economic, Business Finance, E-business, E-payment

LEADERSHIP EXPERIENCE

PolyU - Chinese Mainland Students' Association	Jun 2020 - Jun 2021
<i>Academic Secretary</i>	<i>Hong Kong</i>
PolyU - Global Engagement Office (GEO)	Jun 2020 - Jun 2021
<i>Assist PolyU GEO to promote mainland admissions.</i>	<i>Hong Kong</i>