

Yige Xu

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My research interests lie on Machine Learning and Natural Language Processing, particularly in the applications of Large Language Models (LLMs). My main research area is looking into how LLMs can transfer knowledge more efficiently. Specifically, I mainly focus on (but not limited to): (1) developing better optimization methods, (2) finding ways to make inference more efficient, and (3) exploring how LLMs can be applied effectively to various downstream tasks.

Education

Nanyang Technological University

Ph.D. in School of Computer Science Engineering (SCSE). (Cumulative GPA: 4.25/5.0)

Ph.D. student in [LILY research centre](#), SCSE, NTU. Working with Prof. [Chunyan Miao](#).

Singapore

Aug 2021 - present

Fudan University

Master in School of Computer Science. (GPA: 3.21/4.0)

Research student in [Fudan NLP group](#). Worked with Prof. [Xipeng Qiu](#) and Prof. [Xuanjing Huang](#).

Shanghai, China

Sep 2018 - Jun 2021

Shandong University

B. Eng. in Computer Science and Technology, [Taishan College](#). (GPA: 82.08/100)

Taishan College is the honor college (aka Elite class) of Shandong University. Our major selects less than 20 students from more than 300 undergraduates each year. Worked with Prof. [Jun Ma](#).

Jinan, Shandong, China

Sep 2014 - Jun 2018

Work Experience

FastNLP Develop Team

Main Contributor

• One of the main contributor to [fastNLP](#) package, which is a modularized and extensible NLP framework that has received 3k+ stars in GitHub.

Shanghai, China

Jul 2018 - Jun 2021

Information Retrieval Lab in Shandong University

Research Assistant Training

• Participate in research training. Worked with Prof. Jun Ma.

Jinan, Shandong, China

Dec 2015 - Jul 2017

Professional Services

Conference

PC Member / Reviewer

- ACL Rolling Review: 2022,2023
- ACL: 2021,2023
- EMNLP: 2021,2022,2023
- NAACL: 2021,2022
- EACL: 2024

Journal

Reviewer

- [Information Sciences](#)
- [IEEE/ACM Transactions on Audio, Speech, and Language Processing](#)

Awards

CCL 2019 Best Paper Award

[How to Fine-tune BERT for Text Classification?](#)

Kunming, Yunnan, China

2019

Outstanding Students of Master's Degrees at Fudan University

Shanghai, China

2020

Teaching

Teaching Assistant

NTU, Singapore

- SC1007/CE1107/CZ1107 Data Structures and Algorithm (Semester 2, AY2022-2023)
- SC3007 Compile Techniques (Semester 1, AY2022-2023)

- DATA62004.01 Neural Network and Deep Learning (Spring 2020)
- COMP130137.01 Pattern Recognition & Machine Learning (Spring 2020)
- MANA130376.01 Big Data driven Business Analytics and Application (Spring 2019)

Publications

(* : Equal Contributions)

Efficient Cross-Task Prompt Tuning for Few-Shot Conversational Emotion Recognition

Yige Xu, Zhiwei Zeng, Zhiqi Shen

Findings of EMNLP 2023

[\[PDF\]](#)

Improving BERT Fine-tuning via Self-Ensemble and Self-Distillation

Yige Xu, Xipeng Qiu, Ligao Zhou, and Xuanjing Huang

JOURNAL OF COMPUTER SCIENCE
AND TECHNOLOGY: 38(4), July 2023

[\[PDF\]](#)

MedChemLens: An Interactive Visual Tool to Support Direction Selection in Interdisciplinary Experimental Research of Medicinal Chemistry

Chuhan Shi, Fei Nie, Yicheng Hu, Yige Xu, Lei Chen, Xiaojuan Ma, and Qiong Luo

VIS 2022

[\[PDF\]](#)

Keyphrase Generation with Fine-Grained Evaluation-Guided Reinforcement Learning

Yichao Luo*, Yige Xu*, Jiacheng Ye, Xipeng Qiu, and Qi Zhang

Findings of EMNLP 2021

[\[Source\]](#) [\[PDF\]](#)

Searching Effective Transformer for Seq2Seq Keyphrase Generation

Yige Xu*, Yichao Luo*, Yicheng Zou, Zhengyan Li, Qi Zhang, Xipeng Qiu, and Xuanjing Huang

NLPCC 2021

[\[PDF\]](#)

ONE2SET: Generating Diverse Keyphrases as a Set

Jiacheng Ye, Tao Gui, Yichao Luo, Yige Xu, and Qi Zhang

ACL 2021

[\[Source\]](#) [\[PDF\]](#)

Pre-trained Models for Natural Language Processing: A Survey

Xipeng Qiu, Tianxiang Sun, Yige Xu, Yunfan Shao, Ning Dai, and Xuanjing Huang

SCIENCE CHINA Technological
Sciences

[\[PDF\]](#)

How to Fine-tune BERT for Text Classification?

Chi Sun, Xipeng Qiu, Yige Xu, and Xuanjing Huang

CCL 2019 best paper award

[\[Source\]](#) [\[PDF\]](#)