

Renxi Wang

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EDUCATION

Northeastern University, China

Sept. 2019 ~ present

School of Computer Science and Engineering

GPA: 90.1/100 **Ranking:** 34/221

Course Highlights: Data Structures(91), Probability and Mathematical Statistics(94), Artificial Intelligence(93), Natural Language Processing(95), Object-Oriented Programming(98), Computing Theory(91), Mathematical Basis of Artificial Intelligence(95)

RESEARCH INTERESTS

Information Retrieval; Machine Learning; Natural Language Processing; Dialogue System; Open-domain Question Answering

PUBLICATIONS

Global-Local Modeling with Prompt-Based Knowledge Enhancement for Emotion Inference in Conversation.

Renxi Wang, Shi Feng

Submitted to EACL 2023

RESEARCH EXPERIENCE

Topic: Emotion Detection in Dialogue Systems

June. 2022 ~ present

Instructor: Prof. Shi Feng; NEUDM

Goal: Utilize prompt learning to generate knowledge for emotion detection.

- Designed templates for GPT to generate knowledge for dialogue systems.
- Proposed new modeling method to predict emotion in conversations.

Topic: Open-domain Question Answering

Oct. 2021 ~ Dec. 2021

Instructor: Prof. Zhenghao Liu; NEUIR

Goal: Utilize knowledge distillation to build an end-to-end QA system.

- Did Survey about dense passage retrieval, open-domain question answering.
- Distilled knowledge from reader to retriever for question answering.

Topic: Model Architecture

July. 2021 ~ Aug. 2021

Instructor: Dr. Anxiang Ma; NLP Lab, NEU

Goal: Select number of computations (layers) more efficiently for decoding of transformer model.

- Designed loss with mutual information with respect to the layers.
- Adaptively selected decoding layers with newly designed loss.
- Speeded up the training and inference of Transformer models.

COMPETITIONS

- Kaggle: NBME - Score Clinical Patient Notes, **SOLO** bronze medal. [Report](#)
- Kaggle: U.S. Patent Phrase to Phrase Matching, **SOLO** bronze medal.

AWARDS AND HONORS

- National Encouragement Scholarship, 2020/2022
- Outstanding Students Scholarship, 2020/2022

COURSE PROJECTS

Unix Like File System [Code](#)

June. 2022

Instructor: Shi Feng; Course: Operating System

- Implemented a Unix like file system with group links.
- Implemented Unix like commands to operate files.

Software Engineering Project [Code](#)

May. 2022

Instructor: Wei Li; Course: Software Engineering

- Built a software with python and pyqt.
- Operated postgresql database with psycopg 2.

TECHNICAL STRENGTHS

English Fluency: TOEFL iBT 98

Computer Skills: Python, Pytorch, transformers, Git, C, C++, MATLAB, L^AT_EX, Java.