

# Renxi Wang

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## EDUCATION

**Northeastern University, China**

*Sept. 2019 ~ present*

School of Computer Science and Engineering

**GPA:** 4.01/5.0 (90.1/100)    **Ranking:** 29/216

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 ~ Oct. 2022*

**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 model.

## AWARDS AND HONORS

- National Encouragement Scholarship, 2020/2022
- Scholarship for Outstanding Students, 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, Git, C, C++, MATLAB, L<sup>A</sup>T<sub>E</sub>X, Java.