Juntong NI

Education

Shandong University **Sept. 2020 – June 2024(expected)**
Undergraduate of Artificial Intelligence, GPA: 92.16, Rank:2/52 *Qingdao, China*

Relevant Coursework

- NLP 94
- Deep learning 95
- Linear Algebra 99
- Machine Learning 93
- Probability 98
- Information Retrieval 100
- Advanced Math 96
- Practices on AI 95

Publications

General Debiasing for Multimodal Sentiment Analysis.
*Teng Sun, **Juntong Ni**, Wenjie Wang, Liqiang Jing, Yichen Zheng, Liqiang Nie. ACM MM 2023*
- This work is to study the problem of bias in all three modalities of text, audio, and video in multimodal sentiment analysis. I participated in most of the paper writing and experimental implementation work.

Muti-modal Emotion Recognition via Hierarchical Knowledge Distillation.
*Teng Sun, Yinwei Wei, **Juntong Ni**, Zixin Liu, Xuemeng Song, Yaowei Wang, Liqiang Nie. Under Review by IEEE TMM*
- The work is to study how the text in multi-modal emotion recognition assists the learning of audio and video. I participated in implementing experiments and writing some parts of papers, such as experiments.

Research Experience

University of California San Diego **June 2023 – Sept. 2023**
Summer Intern, supervised by Prof. Pengtao Xie *La Jolla, CA*
- In UCSD, I mainly focus on deep learning for healthcare.
- In the project, we want to train a large model like BERT from scratch over the seqFISH data. Our goal is to predict the missing 3D coordinates during seqFISH.

iLearn Lab, Shandong University **Dec. 2021 – May 2023**
Research Assistant, supervised by Prof. Liqiang Nie *Qingdao, China*
- In SDU, I actively researched multimedia computing, cross-modal information retrieval, and debiasing.
- I participated in two projects related to causal effect and one project about language understanding.

University of Science and Technology of China **Apr. 2022 – June 2022**
Research Assistant, supervised by Prof. Fuli Feng *Hefei, China*
- In USTC, my research interests lie in deep learning-based methods for biology.
- We focus on the problem of predicting neoantigens and predicting the affinity between HLA and candidate peptide sequence.
- I used TransPHLA, a peptide-HLA binding prediction method, to conduct some further experiments.

Skills

Languages: Python, C++, C, LaTeX, HTML/CSS, JavaScript, SQL
Developer Tools: Linux, GitHub, VS Code, Xcode, Google Colab, Jupter
Deep Learning Tools: Pytorch, Tensorflow
English: TOEFL: 101

Selected Awards and Honors

Zhiyang Scholarship (10 awardees per year in department) **Winter 2022**
Huawei Smartbase Scholarship (Only 35 awardees per year in SDU) **Fall 2022**
First Class Scholarship (Top 5% student) **Fall 2022**
COMAP Mathematical Contest in Modeling (Honorable Mention) **Spring 2022**
Asia and Pacific Mathematical Contest in Modeling (Second Prize) **Winter 2021**
National University Mathematics Competition (Third Prize) **Winter 2021**

Professional Service

Reviewer for Neural Information Processing Systems (NeurIPS) **2023**
Reviewer for ACM International Conference on Multimedia (ACM MM) **2023**