

LEXIAO ZOU

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Education

Harbin Institute of Technology, Shenzhen Campus

Sep. 2020 – present

Bachelor of Science in Computer Science

Guangdong, CHN

- GPA: 90.88/100
- Selected Coursework
 - * Introduction to Deep Learning (95)
 - * Computer Architecture (100)
 - * Computer Organization (98)
 - * Compile Principle (98)
 - * Operating System (92)
 - * Introduction to Algorithms (91)

Awards and Scholarships

Second-prize Scholarship of HITSZ

2021–2022

Third Prize in track 2, CCAC AI debate contest

June 2022

First Prize in Chinese Biology Olympiad

May 2019

Research Experience

Human Language Technology, HIT

June 2022 – Oct. 2022

Undergraduate Research Assistant

Supervisor: Prof. Ruifeng Xu

- Explore the topic of argumentation relation detection and aim at tackling unbalanced dataset. Apply adversarial attack, unbalanced loss, model ensemble to train a graph neural network which leverages knowledge from dependency information and pre-trained language model.
- Third Prize in track 2, CCAC AI debate contest, 2022

Multi-modal Intelligence Research

Oct. 2022 – Present

Undergraduate Research Assistant

Supervisor: Prof. Liqiang Nie

- Survey on current domain adaptation methods applied on time series analysis.
- Design a comprehensive evaluation system for domain adaption applied on time series classification.
- Analyze adversarial-based adaptation method applied to CNN-based time series classification model and attempt to modify it to get better transferability.(ongoing)

Projects

Five-stage pipe-lined CPU based on RISC-V | Verilog, vivado

June 2022

- Design a classic five-stage pipe-lined CPU with feed-forward, branch forecasting mechanism and implement a subset of RISC-V instruction with verilog.
- Support basic calculation, memory access, jump&branch functions and burn to an FPGA to run a simple calculator program that already compiled to machine code.

CS224N courses assignments | Python, Pytorch

Feb. 2023

- Explore count-based and prediction-based word embedding and implement Word2Vec algorithm.
- Implement and train an transition-based neural dependency parser with Pytorch and analyze a few erroneous dependency parses.
- Build a Cherokee-English neural machine translation with LSTM and seq2seq models. Analyzing NMT systems and BLEU evaluation methods.

Skills

Programming: Python, Java, C, verilog, SQL

Tools and Frameworks: PyTorch, numpy, L^AT_EX, bash, git, camke

Language: TOEFL 106