YI HUANG

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EDUCATION

Computer Science and Technology, Shandong University   2020 - present

GPA: 93.443/100, **1**/197 (top 0.5%)

Main Courses:

- Linear Algebra (Score: 99) - Discrete Mathematics (Score: 100) - Advanced Mathematics II (Score: 99)
- Probability Theory and Statistics (Score: 100) - Database System Concepts (Score: 96)
- Principles of Computer Composition (Score: 98) - Operating System (Score: 94)
- Digital Logic (Score: 97) - Computer Graphics (Score: 95) - Compilation Principle (Score: 97)
- Software Engineering (Score: 96) - Computer Systems and Architecture (Score: 95)

AWARDS & HONORS

National Scholarship (top 1%)	10/2022
Zhiyang Scholarship (top 1%)	12/2022
First Class Academic Scholarship (top 5%)	09/2020, 09/2021, 09/2022
Linglong Scholarship (top 5%)	12/2021
Honorable Prize in Mathematical Contest in Modeling (**MCM**)	05/2022
Provincial Second Prize in China Undergraduate Mathematical Contest in Modeling (**CUMCM**)	10/2022

PROFESSIONAL SKILLS

Programming:	**C, C++, Python**, Java, Matlab, SQL, Latex, Markdown
Frameworks:	**PyTorch**, Anaconda, Linux, git
Language:	CET-4 **614**, CET-6 **575**

RESEARCH EXPERIENCE

Counterfactual Reasoning for Out-of-distribution Multimodal Sentiment Analysis.   01/2022 - 05/2022

Supervised by Prof. Liqiang Nie, Intelligent Media Research Centre (**iLearn**), Shandong University

- We attempt to apply counterfactual reasoning to mitigate the spurious correlations between texts and labels.
- We also construct the OOD test set by simulated annealing method to evaluate the generalization ability of our proposed framework.

Knowledge-aware Network for Fake News Detection   07/2022 - 11/2022

Co-supervised by **iLearn** of Shandong University and NExT Research Center (**NExT++**) of National University of Singapore

- We get a better representation of news by comparing the news entity with the corresponding entity in the knowledge base.
- Furthermore, we try to generate counterfactual samples for fake news, thus providing explainability.

Detection of AI-generated Multimodal Fake News   02/2023 - 04/2023

Co-supervised by **iLearn** and **NExT++**

- We utilize ChatGPT and Stable Diffusion to construct our own AI-generated multimodal fake news dataset.
- In the detection model, the theory of causal reasoning and representation disentangling is exploited.

PROJECT EXPERIENCE

Cache on a MIPS Machine in C (Independent work)	12/2021
Tiny Model Machine Based on Microprogram using QuartusII (Team work)	10/2022
UNIX-like Shell and File System in C++ (Independent work)	12/2022
PL0 Compiler in C++ (Independent work)	06/2023