

BINGJUN GUO

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EDUCATION

University of Illinois Urbana-Champaign Urbana-Champaign, US Sep. 2021 – present
Bachelor of Science in Computer Engineering GPA: 3.91/4.0

Zhejiang University ZJU-UIUC Institute, Haining, China Sep. 2021 – present
Bachelor of Engineering in Electrical and Computer Engineering GPA: 3.98/4.0

RESEARCH INTERESTS

My research experiences are about utilizing various weakly supervised learning insights to represent data with various structures and modalities, while my major is about understanding computer and electronic systems at all abstract levels. I also have educational experiences in neural engineering, metaphysics, and epistemology. Ultimately, I am wishing to blend all of them together for the development of artificial intelligence which is seriously intelligent.

RELEVANT EXPERIENCES

Foundation Models Augmented Data Cleaning Framework Jun. 2023 – Aug. 2023
Summer Research Program, Center of Data Science, ZJU

- Developed a representation learning model for heterogenous tabular data adopting pretrained language models
- Designed a pipeline with cutting edge error detecting and data cleaning methods achieving an ideal performance on representing dirty datasets
- Experimented on improving model robustness through few-shot prompting to LLaMA-7B
- Gained a comprehensive and detailed understanding of all mainstream deep-learning-based language models

Review on Knowledge Graph Representation Methods Jun. 2022 – Jul. 2022
Summer Research Project, ZJU-UIUC Institute

- Experimented concurrent embedding approaches for knowledge graphs including TransE, TransH, TransR, etc. on distinguished datasets
- Analyzed differences between the performances tracing back to features of datasets and model structure
- Developed a first understanding of representative learning, knowledge engineering as well as skills to set up the research environment

RELATED COURSE WORK

Overview

- A+ or A in all Physics, Philosophy, and Rhetoric courses
- A or A+ in Computer Systems Engineering, Data Structures, Database Systems, Probability with Engineering Applications, Discrete Math, Field & Waves I, and Analog Signal Processing
- A- in the other Mathematics courses including Calculus II&III, Linear Algebra (actually given as Matrix Analysis combined with Abstract Algebra), and Differential Equations

A Unix-like Operating System Fall 2023

- Mainly responsible for developing the terminal, which requires sufficient familiarity with all x86 OS features including interrupts, scheduling, virtual memory, and file system; Synchronization skill is especially valued
- Developed additional functions such as command history, auto-command-completion, and mouse cursor

HONORS & AWARDS

Dean's List Fall 2023
(~top 20% among UIUC undergrad)

Outstanding Summer Research Project Dec. 2023
(~top 20% in ZJU-UIUC Institute)

Mathematical Contest in Modeling Finalist Feb. 2023
(~top 1.5% worldwide)

SKILLS & LANGUAGE QUALIFICATION

- Programming Languages: Python (including PyTorch, Keras, Transformers, etc.), C/C++, x86 assembly
- Mathematics Tools: MATLAB, SageMath
- Database Systems: MySQL, Neo4j, MongoDB

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Feb. 2023