

BINGJUN GUO

1010 W Urbana, IL 61801 | +1 (217) 979-0282 | bingjun3@illinois.edu / bingjun.21@intl.zju.edu.cn

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 representation learning on structured data in various modalities, while my major is about understanding computer and electronic systems at all abstract levels. I also have educational experiences in neuroscience, metaphysics, and epistemology. Ultimately, I am looking forward to utilizing all of them for the development of artificial intelligence which is seriously intelligent.

RELEVANT EXPERIENCES

Large Language Models Augmented Data Cleaning Framework	Jun. 2023 – Aug. 2023
Summer Research Program, Center of Data Science, ZJU	
<ul style="list-style-type: none">Developed a representative learning model for heterogenous tabular data adopting transfer learning with pretrained language modelsDesigned a pipeline with cutting edge error detecting and data cleaning methods achieving an ideal performance on representing dirty datasetsExperimented on improving model robustness through few-shot prompting to LLaMA-7BGained 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	
<ul style="list-style-type: none">Experimented concurrent embedding approaches for knowledge graphs including TransE, TransH, TransR, etc. on distinguished datasetsAnalyzed differences between the performances tracing back to features of datasets and model structureDeveloped 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
<ul style="list-style-type: none">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 valuedDeveloped additional functions such as command history, auto-command-completion, and mouse cursor	

HONORS & AWARDS

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
- Others: ancient Chinese divination; considerable singing skill in bass, baritone, and tenor

TOEFL 110/120	Feb. 2023
---------------	-----------