

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: 3.93/4.0
Zhejiang University ZJU-UIUC Institute , Haining, China	Sep. 2021 – present
Bachelor of Engineering in Electrical and Computer Engineering	GPA: 3.98/4.0

RESEARCH INTEREST

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	
<ul style="list-style-type: none">Developed a representation learning model for heterogenous tabular data adopting 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	
<ul style="list-style-type: none">A+ or A in all Physics, Philosophy, and Rhetoric coursesA or A+ in Computer Systems Engineering, Data Structures, Database Systems, Machine Learning, Probability with Engineering Applications, Discrete Math, Field & Waves I, and Analog Signal ProcessingA- 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 Unix 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

Dean's List	Fall 2023
(~top 20% among UIUC undergrad)	
Outstanding Summer Research Project	Summer 2023
(~top 20% in ZJU-UIUC Institute)	
Mathematical Contest in Modeling Finalist	Spring 2023
(~top 1.5% worldwide)	

SKILLS & LANGUAGE QUALIFICATION

<ul style="list-style-type: none">Programming Languages: Python (including PyTorch, Keras, Transformers, etc.), C/C++, x86 assemblyMathematics Tools: MATLAB, SageMathDatabase Systems: MySQL, Neo4j, MongoDB	
TOEFL iBT 30 30 25 25	Feb. 2023