

BINGJUN GUO

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EDUCATION

University of Illinois Urbana-Champaign <i>Urbana-Champaign, US</i>	<i>Sep. 2021 – present</i>
<i>Bachelor of Science in Computer Engineering</i>	<i>GPA: 3.91/4.0</i>
Zhejiang University ZJU-UIUC Institute <i>Haining, China</i>	<i>Sep. 2021 – present</i>
<i>Bachelor of Engineering in Electrical and Computer Engineering</i>	<i>GPA: 3.97/4.0</i>

RELEVANT EXPERIENCES

Large Language Models Augmented Data Cleaning Framework	<i>Jun. 2023 – Aug. 2023</i>
<i>Summer Research Program, Center of Data Science, ZJU</i>	
<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	<i>Jun. 2022 – Jul. 2022</i>
<i>Summer Research Project, ZJU-UIUC Institute</i>	
<ul style="list-style-type: none">Experimented concurrent embedding approaches for KG 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	<i>Fall 2023</i>
<ul style="list-style-type: none">Mainly responsible for developing the terminal, which requires sufficient familiarity with all x86 OS features including interrupt, scheduling, virtual memory, and file system. Synchronization skill is especially valued.Development addition functions such as command history, auto-command-completion, and mouse cursor	

HONORS & AWARDS

Outstanding Summer Research Project	<i>Dec. 2023</i>
<i>(~top 20% in ZJU-UIUC Institute)</i>	
Mathematical Contest in Modeling Finalist	<i>Feb. 2023</i>
<i>(~top 1.5% worldwide)</i>	

SKILLS & LANGUAGE QUALIFICATION

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- 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	<i>Feb. 2023</i>
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