Siyuan Gong

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Education

University of Illinois at Urbana Champaign *Sept 2023 – Present*
Bachelor of Science in Computer Engineering
- GPA: 4.0/4.0

Zhejiang University *Sept 2023 – Present*
Bachelor of Engineering in Electrical and Computer Engineering
- GPA: 3.90/4.0, Rank: 3/70

Selective Coursework

- CS 225: Data Structures (A+)
- ECE 220: Computer Systems & Programming (A+)
- ECE 391: Computer Systems Engineering (A+)
- ECE 408: Applied Parallel Programming (A+)

Honors and Awards

National Scholarship — *Ministry of Education of People's Republic of China, 2024, 2025*

Dean's List — *University of Illinois at Urbana Champaign, 2024*

Meritorious Winner in Mathematical Contest in Modeling — *Consortium for Mathematics and its Applications, 2024*

First Prize Scholarship for Academic Excellence — *Zhejiang University-University of Illinois Urbana-Champaign Institute, 2024*

Gold Medal in iGEM — *International Genetically Engineered Machine (iGEM) Foundation, 2024*

Experience

Graph-Based In-Context Learning Enhancement *Hangzhou, China*
Advisors: Yifei Sun, Yang Yang, Zhejiang University *Jun 2024 – Feb 2025*
- Conducted literature review, contributed to ideation, and helped refine the model design.
- Designed and implemented experiments: leveraged graph structures and PageRank-based example selection with multi-level encoding (node, path, subgraph), achieving a 2.74% improvement over SOTA baselines.
- Drafted and revised the paper, with emphasis on the experimental methodology and results.

International Genetically Engineered Machine Competition *Hangzhou, China*
Team: iZJU-China *Apr 2024 – Oct 2024*
- Constructed a CNN to detect binary dot matrices in yeast images captured under microscope, facilitating the batch processing of biological images.
- Developed a differential equation model to describe the relationship between yeast genes, enabling prediction of potential product expression levels to assist biological experiments.
- Utilized MATLAB to visualize the results for differential equations and create plots of experimental outcomes.
- Wrote Python scripts to automatically handle batch processing tasks.

Work

Undergraduate Teaching Assistant for ECE 120 Introduction to Computing *Haining, China*
Course Instructors: Lin Qiu, Zuozhu Liu, and Ujjal Bhowmik *Sep 2024 – Jan 2024*