

Hengjia Yu

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EDUCATION

University of Illinois Urbana-Champaign Undergraduate - Computer Engineering	Sep. 2021 - Present GPA: 3.85/4.00
Zhejiang University Undergraduate - Electronic and Computer Engineering	Sep. 2021 - Present GPA: 3.91/4.00

RESEARCH INTERESTS

MLSys, ML for System, Computer Systems

ACADEMIC EXPERIENCE

Tensor-centric library for Graph Neural Network via Segment Reduction <i>Supervised by: Prof. Jishen Zhao</i>	UCSanDiego May 2024 - Aug 2024 (expected)
- Using both serial and parallel segment reduction methods accelerating message passing process in GNN. - Using torch.compile and custom operation to connect to PyG library.	
Distributed System for Temporal Graph Learning <i>Supervised by: Prof. Charith Mendis</i>	UIUC Dec 2023 - June 2024
- Participated in development and release of TGLite – a new model de-duplicating and accelerating temporal graph learning. - Researching on Distributed Systems for TGL focusing on mini-batches and node memories.	
Neonatal Seizure Diagnosis Based on EEG Data <i>Supervised by: Prof. Qinmin Yang and Chao Li</i>	Zhejiang University Summer 2022
- Participated in research on neural network models on improvement of performance. - Used STFT, PSD, CNN... Achieved accuracy of 95%	

PROJECTS

Operating System Design - ECE391: Operating System <i>Advisor: Prof. Steven S. Lumetta and Zbigniew T. Kalbarczyk</i>	UIUC Oct. 2023 - Dec. 2023
- Developed a Linux-like operating system from scratch with a team (group leader). - Implemented basic OS functionalities and advanced features like round-robin scheduler, signals, writable file-system, and text-editor.	

TEACHING EXPERIENCES

Course Assistant - ECE391: Operating Systems <i>2023 - 2024 Spring Semester</i>	UIUC
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AWARDS

Provincial Government Scholarship of Zhejiang Province Top 3% students overall in Zhejiang province	2022
Outstanding Student of Zhejiang University Top 8% students overall in Zhejiang University	2022
Dean's List Top 10% students in grades of Grainger College of Engineering, UIUC	2022 & 2023

SKILLS

- **Programming:** Python, C, C++, Matlab, x86 assembly
- **Languages:** English (professional), Mandarin (native)
- **Others:** Pytorch, Git, LaTeX, Sphinx, Markdown, Colab

OTHER EXPERIENCES

Director of Student New Media Center
2022 - 2023 Academic Year

International Campus, ZJU

Campus Men's Volleyball Team Leader
2022 - 2023 Academic Year

International Campus, ZJU

Vice Director of Brand Promotion Center
2021 - 2022 Spring

ZJU-UIUC Joint Institute