

# Minqiu Sun

417 FinTech Innovation Hub, 591 Collaboration Way, Newark, DE 19713, USA

[mqsun@udel.edu](mailto:mqsun@udel.edu)

+1 (302) 610-9178

## Education

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### University of Delaware

*Aug 2024 – Present*

Ph.D. Student in Computer & Information Sciences

Advisor: Prof. Dong Dai

GPA: 3.83/4.0

Research Interests: Systems for AI, Large Language Models

### Nanjing University of Information Science and Technology

*Sep 2020 – Jun 2024*

B.Sc. in Data Science and Big Data Technology (Dual Degree Program)

GPA: 90.6/100 (Rank: 3/36)

### University of Reading

*Sep 2020 – Jun 2024*

B.Sc. in Data Science (First Class Honours)

GPA: 80.9/100

TOEFL: 105/120   GRE: 325/340 (AW:3.5)

## Publications

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**Minqiu Sun**, Xin Huang, Luanzheng Guo, Nathan Tallent, Kento Sato, Dong Dai.

**LLMTailor: A Layer-wise Tailoring Tool for Efficient Checkpointing of Large Language Models.** *In Proceedings of the 10th International Parallel Data Systems Workshop (PDSW'25), held in conjunction with SC'25.*

**Minqiu Sun**, Xin Huang, Luanzheng Guo, Nathan Tallent, Kento Sato, Dong Dai.

**LayerCheck: Adaptive Layer-wise Checkpointing for Large Language Model Post-training.** *Under review for IPDPS'26.*

## Research Experience

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### Teaching Assistant (CISC361 Operating Systems)

*Aug 2025 – Present*

*Department of Computer and Information Sciences, University of Delaware*

Instructors: Md. Hasanur Rashid and Dong Dai

### Research Assistant

*Aug 2024 – Aug 2025*

University of Delaware

### Teaching Assistant (Computer Science and Application)

*2021 – 2022*

*Reading Academy, Nanjing University of Information Science and Technology*

Instructors: Loza Bekalo

## Honors & Awards

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### TCP/TPC HPCSC 25–26 Travel Award

*2025–2026*

### Meritorious Winner, Mathematical Contest in Modeling (MCM)

*2023*

Team Leader: Developed an LSTM model to forecast daily *Wordle* player counts and an XGBoost regression model to evaluate difficulty, providing actionable suggestions to the game's developers.

## Internet+ Innovation and Entrepreneurship Competition

2022

A knowledge-graph-based weather emergency forecasting system for sports events. Responsible for thesis writing, presentation design, and data analysis.

**First Prize Scholarship**, Nanjing University of Information Science and Technology

2021–2024

**Merit Student**, Nanjing University of Information Science and Technology

2020–2024

## Industry Experience

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**Accenture (China) Co., Ltd.**

Aug 2023 – Nov 2023

Data Analysis Intern

Conducted IIoT market research for European clients, focusing on Siemens and Haier.

Designed reinforcement learning-based route optimization algorithms for Airbus warehouse operations.

Delivered analytical reports on Industrial IoT market trends and applications.

## Leadership & Service

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**Student Volunteer, SC'25**

2025

**President, Rock Band Association in NUIST**

2022 – 2023

Managed daily rehearsals and organized campus music festivals with 500+ attendees.

**Volunteer, Reading Academy Admissions Office**

2021, 2022

Supported student recruitment and campus outreach during entrance examinations.

## Technical Skills

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**Programming:** Python, Bash, C/C++, SQL

**Frameworks:** PyTorch, DeepSpeed, HuggingFace, Model Context Protocol (MCP)

**Systems:** Linux, HPC (Slurm), eBPF, Docker