

# Minqiu Sun

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## Education

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<b>University of Delaware</b> Ph.D. Student in Computer & Information Sciences Advisor: Prof. Dong Dai GPA: 3.83/4.0 Research Interests: Systems for AI, Large Language Models	<i>Aug 2024 – Present</i>
<b>Nanjing University of Information Science and Technology</b> B.Sc. in Data Science and Big Data Technology (Dual Degree Program) GPA: 90.6/100 (Rank: 3/36)	<i>Sep 2020 – Jun 2024</i>
<b>University of Reading</b> B.Sc. in Data Science (First Class Honours) GPA: 80.9/100 TOEFL: 105/120 GRE: 325/340 (AW:3.5)	<i>Sep 2020 – Jun 2024</i>

## 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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<b>Teaching Assistant</b> (CISC361 Operating Systems) <i>Department of Computer and Information Sciences, University of Delaware</i> Instructors: Md. Hasanur Rashid and Dong Dai	<i>Aug 2025 – Present</i>
<b>Research Assistant</b> University of Delaware	<i>Aug 2024 – Aug 2025</i>
<b>Teaching Assistant</b> (Computer Science and Application) <i>Reading Academy, Nanjing University of Information Science and Technology</i> Instructors: Loza Bekalo	<i>2021 – 2022</i>

## Honors & Awards

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<b>TCPP/TCHPC HPCSC 25–26 Travel Award</b>	<i>2025–2026</i>
<b>Meritorious Winner, Mathematical Contest in Modeling (MCM)</b> Team Leader: Developed an LSTM model to forecast daily <i>Wordle</i> player counts and an XGBoost regression model to evaluate difficulty, providing actionable suggestions to the game's developers.	<i>2023</i>

## **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