

Jinshu Liu

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EDUCATION

- **Virginia Tech** 2022 - present
Ph.D. in Computer Science
 - GPA: 4.00/4.00 | Advisor: [Prof. Huaicheng Li](#)
- **University of Rochester** 2022
M.S. in Computer Science
 - GPA: 3.93/4.00 | Advisor: [Prof. Fatemeh Nargesian](#)
- **Xi'an Jiaotong University** 2019
B.E. in Energy and Power Engineering
 - GPA: 88.6/100

PUBLICATIONS

C=CONFERENCE, X=ARXIV

- [C.3] **Jinshu Liu**, Hamid Hadian, Yuyue Wang, Daniel S. Berger, Marie Nguyen, Xun Jian, Sam H. Noh, Huaicheng Li. **Systematic CXL Memory Characterization and Performance Analysis at Scale**. In *Proceedings of the 30th ACM International Conference on Architectural Support for Programming Languages and Operating Systems*, **ASPLOS 2025**
- [C.2] **Jinshu Liu**, Yunlong Xu, Fatemeh Nargesian, Gourab Ghoshal. **TSUPY: Dynamic Climate Network Analysis Library**. In *Proceedings of the 31st ACM International Conference on Information & Knowledge Management*, **CIKM 2022**
- [C.1] Yunlong Xu=, **Jinshu Liu**=, Fatemeh Nargesian. **TSUBASA: Climate Network Construction on Historical and Real-Time Data**. In *Proceedings of the 2022 International Conference on Management of Data*, **SIGMOD 2022** ('=' denotes equal contribution)
- [X.1] **Jinshu Liu**, Hamid Hadian, Hanchen Xu, Daniel S. Berger, Huaicheng Li. **Dissecting CXL Memory Performance at Scale: Analysis, Modeling, and Optimization..** In *Arxiv*, 2024

EXPERIENCE

- **Virginia Tech, MoatLab** Aug 2022 - present
Graduate Research Assistant
 - CXL Memory characterization, performance modeling and system optimization.
- **Samsung, Memory Solutions Lab** May 2024 - Aug 2024
Memory System Research Intern
 - CXL-SSD performance characterization and performance analysis for K-V store workloads.
- **University of Rochester, Data Intelligence Lab** May 2021 - May 2022
Graduate Research Assistant
 - Data processing system for large-scale time-series correlation analysis.

AWARDS

- **IEEE Micro Top Picks 2024 Honorable Mention**
IEEE Micro
 - Large-scale performance evaluation across hundreds of workloads on CXL production environment
 - 12 papers for Honorable Mention out of a total of 119 submissions
- **Pratt Fellowship 2024**
Virginia Tech
- **Peng Kang Scholarship, GEELY Auto 1st Class Scholarship**
Xi'an Jiaotong University
 - Awards for [Top 5%](#) students

SERVICES

- **Virginia Tech** Fall 2022
Graduate Teaching Assistant in Computer System

SKILLS

- **Programming Languages:** C, Java, Golang, C++, C#, Python, OCaml, Ruby, JavaScript, Fortran, Matlab, Scheme