

YUNCHI LU

✉ yunchi@umich.edu | 🏠 [luyunchi.github.io](https://github.com/yunchi) | 🌐 GitHub | 🎓 Google Scholar

EDUCATION

University of Michigan - Ann Arbor MI, USA
Ph.D. in Computer Science and Engineering Advisor: **Prof. Peng Huang** 2024 - present
M.S. in Electrical and Computer Engineering 2022 - 2024

Shanghai Jiao Tong University SHANGHAI, CHINA
B.E. in Electrical and Computer Engineering 2017 - 2021
Capstone Project: Visual-aided Active Speaker Detection

RESEARCH INTERESTS

Machine learning systems, distributed systems, reliability, verification, software engineering

CONFERENCE PAPER

- [1] **Yunchi Lu**, Youshan Miao, Cheng Tan, Peng Huang, Yi Zhu, and Fan Yang. TrainVerify: Equivalence-Based Verification for Distributed LLM Training. In *Proceedings of ACM SIGOPS 31st Symposium on Operating Systems Principles*, Seoul, Republic of Korea, October 2025, **SOSP '25**.
- [2] Ruiming Lu, **Yunchi Lu**, Yuxuan Jiang, Guangtao Xue, and Peng Huang. **One-Size-Fits-None: Understanding and Enhancing Slow-Fault Tolerance in Modern Distributed Systems**. In *Proceedings of the 22nd USENIX Symposium on Networked Systems Design and Implementation*, Philadelphia, PA, USA, April 2025, **USENIX NSDI '25**.

EXPERIENCES

University of Michigan - Ann Arbor MI, USA
PHD STUDENT AT **ORDER LAB**, ADVISED BY **PROF. PENG HUANG** 2024 - present
· Research: correctness and verification for machine learning systems
RESEARCH ASSISTANT AT **ORDER LAB**, ADVISED BY **PROF. PENG HUANG** 2023 - 2024
· Research: failure observability and slow fault tolerance in distributed systems
· Research: efficient fault injection testing in distributed databases

Microsoft Research BEIJING, CHINA
RESEARCH INTERN AT **SRG**, ADVISED BY **DR. YOUSHAN MIAO** AND **DR. FAN YANG** 2024
· Research: parallelization correctness in distributed LLM training

Akasa Information Technology Startup SHANGHAI, CHINA
FULL-TIME SOFTWARE ENGINEER, LED BY **JIANSHUO WANG** AND **SHUYI WANG** 2021 - 2022
· Job: core developer of scalable backend for semantic video retrieval and cloud storage systems

Shanghai Jiao Tong University SHANGHAI, CHINA
UNDERGRADUATE RESEARCH ASSISTANT, ADVISED BY **PROF. DONGYAO CHEN** 2020 - 2021
· Research: driving pattern recognition using vehicle and mobile sensing
UNDERGRADUATE RESEARCH ASSISTANT, ADVISED BY **PROF. PAUL WENG** 2019 - 2020
· Research: VAE-enhanced reinforcement learning for simulated autonomous driving

HONORS

Shanghai Jiao Tong University Undergraduate Excellent Scholarship	2020
John Wu & Jane Sun Talent Scholarship	2017

SERVICES

Graduate Student Instructor	EECS 481 Software Engineering	2024
Voluntary Service	Education Support in Yunnan Poverty Area	2020
Student Organization	Co-Leader of JI Art and Ent. Department	2017 - 2019

SKILLS

Programming Languages	Python, GoLang, MATLAB, JavaScript, HTML, Verilog
Frameworks	PyTorch, NumPy, CUDA, FAISS, Flask, React