Qixuan(Talia) Chen

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EDUCATION

University of Texas at Austin — Austin, TX
Ph.D. in Computer Science — *Sep. 2025 – Present*
- Advisor: Vijay Chidambaram

Boston University — Boston, MA
Bachelor of Arts & Master of Science in Computer Science — *Sep 2021 – May 2025*
- GPA: 3.85/4.0
- Advisor: Vasiliki (Vasia) Kalavri

RESEARCH INTERESTS

Machine Learning Systems, Agentic AI Systems, Distributed Systems

PUBLICATIONS

- **Qixuan Chen**, Yuhang Song, Melissa Martinez, Vasiliki Kalavri. **RingSampler: GNN Sampling on Large-Scale Graphs with io_uring**. *Proceedings of the 17th ACM Workshop on Hot Topics in Storage and File Systems (HotStorage)*, pages 52–60. (HotStorage '25)

RESEARCH EXPERIENCE

Research Assistant — Aug 2025 - Present
UT Systems and Storage Lab — *Austin, TX*
- Advisor: Vijay Chidambaram
- Building System to optimize agentic workflows for batched query processing, providing adaptive execution and improving resource utilization
- Developing distributed vector databases with CXL to handle large-scale datasets and support high-demand LLMs

Research Assistant — Sep 2023 – Jul 2025
Boston University CASP Lab — *Boston, MA*
- Advisor: Vasiliki Kalavri
- Scale Graph Neural Network sampling on large-than-memory graphs using io_uring

INDUSTRY EXPERIENCE

Software Engineer Intern — Sep 2022 – May 2025
BU Spark! at Boston University — *Boston, MA*
- Developed an interactive data management portal for Harvard University Herbaria using PHP, integrating a text recognition ML model to streamline data entry and significantly enhance data management efficiency

Frontend Engineer — Nov 2022 – Aug 2023
SunnySide — *Remote*
- Led React Native development for a mental health app, designing key screens from Figma prototypes and optimizing journal storage using WebView with the Quill library

EXTRACURRICULAR ACTIVITIES

Co-director — Sep 2022 – May 2024
BU Machine Intelligence Community(BUMIC) — *Boston, MA*
- Organized weekly cooperative learning workshops and public speaking events on Machine Learning to engage students and foster community growth

AI Fellow — Oct 2024
Break Through Tech — *Boston, MA*
- Mentored women & non-binary students interested in ML, sharing personal experience and providing career advice

Awards

Finalist of Student Research Competition | SOSP 2024   Nov 2024
Presented a poster and delivered a research talk, earning 2nd place in the undergraduate category

Student Scholarship | SOSP 2024   Oct 2024
Received scholarship covering travel and accommodation costs for attending SOSP2024 in-person

UROP Research Award | Boston University   Apr 2024
Awarded funding by BU UROP to conduct research

Teaching Experience

- **CS 395T Distributed System-WB**: Teaching Assistant (UT Austin, Fall 2025)

Service

- **Artifact Evaluation Committee**: OSDI'25

- **Volunteer**: SOSP'24