Mengze Tang

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github.com/madmtang ◇ mengze.org

EDUCATION

University of Wisconsin-Madison   **Sep 2025 - Present**
Ph.D. in Computer Sciences   *Madison, WI*

University of Wisconsin-Madison   **Dec 2024**
B.S. in Computer Sciences & Mathematics (Double major)   *Madison, WI*
· GPA: 4.00 / 4.00 (Distinctive Scholastic Achievement)
· Hilldale Fellow, Advisor: Shivaram Venkataraman

RESEARCH INTERESTS

Data Systems, AI Agents, Machine Learning Systems

PUBLICATIONS

Conferences

[3] Jason Mohoney, Devesh Sarda, **Mengze Tang**, Anil Pacaci, Shihabur Rahman Chowdhury, Ihab F. Ilyas, Theodoros Rekatsinas, Shivaram Venkataraman ***Quake: Adaptive Indexing for Vector Search*** – OSDI 2025

Preprints

[2] Center for AI Safety, Scale AI. ***Humanity's Last Exam*** - arXiv 2025

[1] Evan Gorstein, **Mengze Tang**, Hailey Bruzzone, Claudia Solis-Lemus ***Ancestral Sequences Cannot be Accurately Reconstructed via Interpolation in a Variational Autoencoder's Latent Space*** - In Submission

WORK EXPERIENCE

Microsoft Research Asia, Systems Research Group   **Apr 2025 - Aug 2025**
Research Intern, Mentor: Jing Liu   *Beijing, China*
· Work on systems support for LLM-powered AI agents with function calling.

RESEARCH EXPERIENCE

Database Group, University of Wisconsin-Madison   **Sep 2025 - Present**
Advisor: AnHai Doan   *Madison, WI*
· Work on natural language querying for intelligent data catalog systems.

madSystems, University of Wisconsin-Madison   **Dec 2023 - Dec 2024**
Mentor: Jason Mohoney, Advisor: Shivaram Venkataraman   *Madison, WI*
· Work on benchmarking vector indexing systems.

Wisconsin Institute for Discovery   **Jan 2023 - Dec 2024**
Supervisor: Claudia Solís-Lemus   *Madison, WI*
· Work on deep learning for biological sequences.

AWARDS & HONORS

Star of Tomorrow, Internship Award of Excellence *Microsoft Research Asia* 2025
Student Grant OSDI '25 *USENIX Association* 2025
First-year CS Departmental Scholarship ($2000) *University of Wisconsin-Madison* 2025
Hilldale Undergraduate Research Fellowship ($3000) *University of Wisconsin-Madison* 2024
Dean's List *University of Wisconsin-Madison* 2022, 2023, 2024

PROFESSIONAL ACTIVITIES

Teaching Assistant, Intro to Big Data Systems *University of Wisconsin-Madison* **Fall 2025**
Peer Mentor, Intro to Operating Systems *University of Wisconsin-Madison* **Fall 2024**
Grader, Intro to the Theory of Probability *University of Wisconsin-Madison* **Fall 2024**

SKILLS

Programming Languages	Python, C/C++, Java
Development Tools	PyTorch, Keras, Git, Docker, Spark, Faiss, LaTeX, Markdown
Languages	English (fluent), Chinese (native)