Gurbani Kirtan
Gurbani Vichar
Sikhi Sidhant Bhagat Bani Jeevan

Gurbani Kirtan

Mardan Says Religion as a Bible and Lore

By Bhai Sukhdev, Bhagat Bhai Sukhdev and Sukhdev Kaur

Mardan says Religion as a Bible and Lore. Mardan says Religion as a Bible and Lore. Mardan says Religion as a Bible and Lore.

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Dr. Tran

Dr. Tran

Associate Professor

Computer Science

Ph.D., Stanford University, 2011

M.S., Stanford University, 2007

B.S., Carnegie Mellon University, 2004

Dr. Tran's research focuses on distributed systems and cloud infrastructure, with particular emphasis on fault tolerance in large-scale data processing pipelines. Her current work examines how stream processing frameworks can recover from partial failures without duplicating or losing data, and she has published three papers on this topic in the last four years. She teaches Distributed Systems and Cloud Computing at the undergraduate level and supervises two doctoral students and one master's student.

Before joining the faculty, she spent two years as a research intern at a major cloud provider, where she helped design a checkpointing protocol for a streaming analytics service that processes billions of events per day. The protocol she helped design is now in production and has been adopted by several customer-facing services. She also maintains an open-source library for exactly-once stream processing that has been used by approximately 40 organizations.

Outside the classroom, she is the faculty advisor for the student chapter of the Association for Computing Machinery and organizes a weekly reading group on systems papers that draws students from across the department. She is also a member of the program committee for the Symposium on Cloud Computing and has served as a reviewer for the Journal of Distributed Systems and Transactions on Cloud Computing.

Dr. Tran's office hours are Tuesday and Thursday from 2:00 to 4:00 PM in Room 312. She prefers to meet with students who want to discuss research projects by appointment, since her schedule is more predictable than her office hours suggest. She is currently accepting two new doctoral students for the fall of 2026 and one master's student for the spring of 2026.

Dr. Tran's current teaching load consists of Distributed Systems (CS 4210) in the fall and Cloud Computing (CS 5310) in the spring. She has taught Distributed Systems every year since her first year at the institute and has developed a new lab component for the course that asks students to implement a simple version of a checkpointing protocol. The lab component was added in response to student feedback that the course was too theoretical, and it has been well received in subsequent evaluations.

Her research group currently includes two doctoral students and one master's student. The doctoral students are working on extensions to the checkpointing protocol that reduce the overhead on high-throughput workloads and on a new approach to exactly-once processing that does not rely on checkpointing at all. The master's student is working on a benchmark suite for stream processing frameworks that will be released as part of her thesis.

Dr. Tran's dissertation at Stanford was on consistency models for distributed key-value stores, and she still maintains a small amount of work in that area. She is interested in the relationship between consistency and performance and has a long-term goal of building a system that makes the trade-off between consistency and performance easier for application developers to reason about.

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