



UNT®

University of
North Texas

AI meets Quantum Symposium



Date:

9th October
2026, Friday



Time:

9:00am –
3:00pm



Location:

Discovery Park -
3940 N Elm,
Denton, TX 76207



Room:

K150

• KEYNOTE SPEAKERS •



**Malcolm
Nicholas**

*Vice President,
CTO, Senior Quantum
Ambassador, IBM*



**Dr. Rajkumar
Kettimuthu**

*Senior Scientist
Argonne National
Laboratory*



INNOVATE • COMPUTE • TRANSFORM



AI MEETS QUANTUM

A Cross-Disciplinary Research Symposium

The University of North Texas

Friday, October 9, 2026

Location: 3940 North Elm Street, Denton, Texas 76207

Room: K150

Agenda

Time	Session	Description	Speakers
8:30 –9:00 AM	Check-In & Welcome Coffee	Registration, breakfast refreshments, and an opportunity for attendees to connect with fellow researchers, faculty, students, and industry guests.	Meesha Paul <i>Sr. Admin Coordinator</i> UNT AI Institute Team
9:00 –9:15 AM	Opening & Welcome	Opening remarks and introduction to the intersection of Artificial Intelligence and Quantum Computing.	Pamela Padilla <i>Vice President for Research and Innovation, UNT</i>
9:15 – 10:00 AM	Keynote Address I	A featured perspective on emerging opportunities at the intersection of AI and quantum technologies, followed by audience questions.	Malcolm Nicholas <i>Vice President, CTO, Senior Quantum Ambassador, IBM</i>
10:00 – 10:25 AM	Connect & Reset/ Coffee Break	Quick transition and opportunity for attendees to reflect on the keynote and connect with speakers and colleagues.	Meesha Paul <i>Sr. Admin Coordinator</i>
10:25 AM – 12:10 PM	Faculty Lightning Talks – I Session	Seven 10-minute talks highlighting innovative research, emerging technologies, and cross-disciplinary applications	Introduction - Amanda Essoh <i>Proposal Manager</i>
10:30 –10:40 AM	Speaker 1	<i>Quantum-enhanced Generative Modes</i>	Mohammed Aledhari
10:45 –10:55 AM	Speaker 2	<i>AI and Statistical Mechanics for Atomistic Molecular Simulations</i>	Omar Valsson
11:00 –11:10 AM	Speaker 3	<i>Unified Multi-Framework Quantum Code Generation and Execution-Aware Evaluation with LLMs</i>	Yunhe Feng

Time	Session	Description	Speakers
11:15 –11:25 AM	Speaker 4	<i>Quantum Photonics at the Chip Scale</i>	Yuankun Lin
11:30 –11:40 AM	Speaker 5	<i>When AI Meets Quantum Cryptanalysis</i>	Kirill Morozov
11:45 –11:55 AM	Speaker 6	<i>An AI-Accelerated Ab Initio Bottom-Up Polymer Structure Prediction via Reliable Quantum Electronic Structure Theory</i>	Hsin-Yu Ko
12:00 – 12:10 PM	Speaker 7	<i>Correlated Photons: From Quantum Gates to Quantum Sensing</i>	Yuri Rostovtsev
12:15 – 1:15 PM	Lunch/Poster session with Informal Networking	Lunch with open networking. Attendees can meet researchers, faculty, students, and industry participants and discuss potential research connections.	All Attendees
1:15 –2:00 PM	Keynote Address II	A featured perspective on emerging opportunities at the intersection of AI and quantum technologies, followed by audience questions. Title: <i>Closing the Loop: AI for Quantum Science and What Quantum Might Give Back</i>	Rajkumar Kettimuthu <i>Senior Scientist and Group Leader, Argonne National Laboratory</i>
2:00 –2:10 PM	Key Takeaways & Transition	Brief synthesis of the keynote themes and introduction to the afternoon interactive sessions.	Meesha Paul <i>Sr. Admin Coordinator</i>
2:15 –2:45 PM	Interactive Breakout Discussions & Facilitated Networking	Small-group discussions focused on key questions surrounding AI + Quantum to exchange ideas, identify research challenges, and explore opportunities for interdisciplinary collaboration.	All Attendees
2:45 –3:00 PM	Closing Remarks & Looking Ahead	Reflections from the symposium and discussion of future opportunities for collaboration between AI and quantum research communities.	Song Fu <i>Director – Applied AI & Data Science Institute</i>

Event Concludes

Symposium Details:

Throughout the symposium, attendees will have opportunities to:

- **Hear from leading experts** working at the intersection of AI and quantum technologies.
- **Discover emerging research** through rapid-fire faculty lightning talks.
- **Engage directly with researchers** during interactive breakout discussions.
- **Explore student and faculty research** during the poster session.
- **Build interdisciplinary connections** with researchers, students, faculty, and industry professionals.
- **Identify opportunities for collaboration** across AI, quantum computing, and related fields.

Keynote Speakers:

Malcolm Nicholas

Vice President, CTO, Senior Quantum Ambassador, IBM

Rajkumar Kettimuthu

Senior Scientist and Group Leader, Argonne National Laboratory

Faculty Lightning Talks:

Session: Seven 10-minute presentations

Interactive Breakout:

The afternoon breakout will be designed around guided questions such as:

- Where can AI and quantum computing most meaningfully intersect?
- What research challenges require cross-disciplinary collaboration?
- What opportunities exist for students and early-career researchers?
- How can universities and industry work together to translate emerging research into practical applications?

Facilitators: Amanda Essoh, Meesha Paul