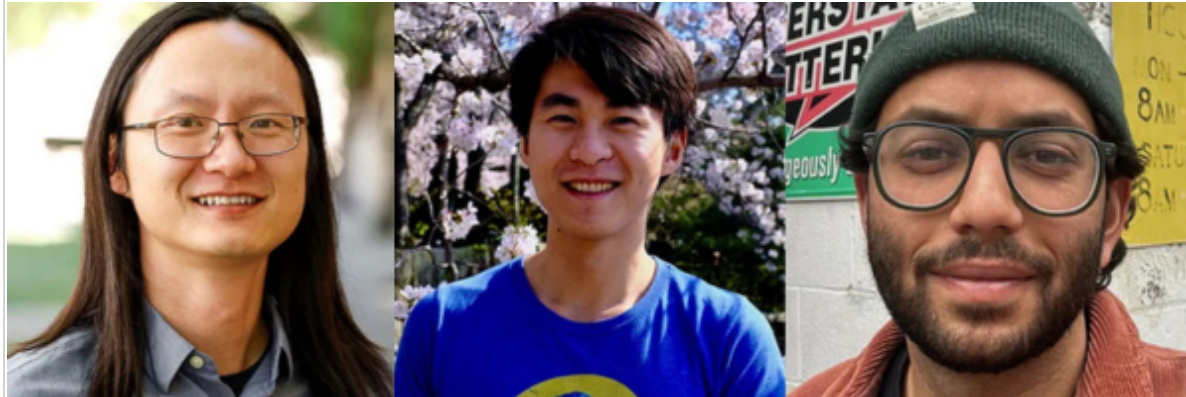


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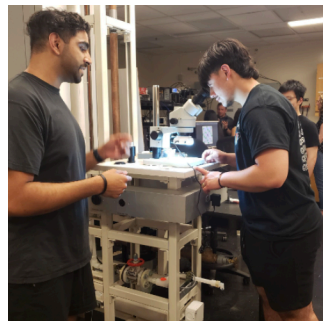
FALL 2024

NEWS



[QuantumX welcomes three new faculty members](#)

"Mo Chen brings critical expertise in superconducting qubit technologies and a deep understanding of noise in real quantum systems," said QuantumX chair Kai-Mei Fu. "With the addition of Jerry Li and Chinmay Nirkhe, the UW is poised to determine the broad computation and information landscape that quantum technologies will impact."



['24-25 Accelerating Quantum-Enabled Technologies Cohort](#)

QuantumX welcomed its fourth cohort of graduate students to the Accelerating Quantum-Enabled Technologies (AQET), a National Science Foundation Research Traineeship program. The 19 students are studying electrical and computer engineering, materials science and engineering, physics, chemistry and computer science and engineering.



[Peter Shor \(MIT\): UW Public Lecture in Quantum Science and Engineering](#)

QuantumX hosted Massachusetts Institute of Technology (MIT) Morss Professor of Applied Mathematics Peter Shor on October 10. Shor met with AQET students before his public lecture on quantum computing, now available on our [YouTube Channel](#).

[Amazon Braket as an educational tool for quantum computing](#)

Amazon Web Services (AWS) sponsored an AQET capstone project, mentoring students working on the quantum error mitigation topic. Students used Amazon Braket, a fully managed quantum computing service, to access quantum computing hardware and analyze the impact of noise and error mitigation techniques on variational quantum algorithms.



[Max Parsons — engineering quantum technology while making state-of-the-art hardware more accessible for research and education](#)

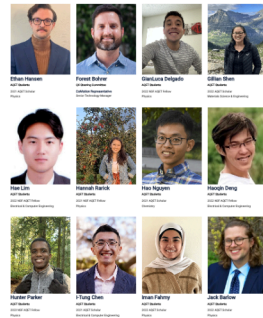
Parsons directs the Quantum Technologies Training and Testbed (QT3) Lab, which is equipped with state-of-the-art hardware and provides unique opportunities for students to gain hands-on experience exploring quantum phenomena in an interdisciplinary environment.





[The Quantum Quest](#)

UW has been a significant player in quantum research for decades and is poised to tackle problems of mind-boggling complexity. In QuantumX, the faculty and students are playing a key role.



[Explore the new QuantumX website](#)

We are excited to announce the launch of the refreshed QuantumX website. Designed with our users in mind, the updated site features a modern look, streamlined navigation and enhanced access to information on our cutting-edge quantum research, events and educational opportunities.

SELECTED PUBLICATIONS

[Perspective on quantum sensors from basic research to commercial applications](#)

Jean Lautier-Gaud, Jongmin Lee, Peter D. D. Schwindt, Sara L. Mouradian, Frank A. Narducci, Charles A. Sackett

Aerospace Research Central

[A Lieb-Robinson bound for open quantum systems with memory](#)

Rahul Trivedi, Mark Rudner

Arxiv.org

[Non-volatile tuning of cryogenic optical resonators](#)

Uthkarsh Adya, Rui Chen, I-Tung Chen, Sanskriti Joshi, Arka Majumdar, Mo Li, Sajjad Moazeni

Arxiv.org

[ARQUIN: Architectures for multinode superconducting quantum computers](#)

James Ang, Gabriella Carini, Sophia Economou, Andrei Faraon, Kai-Mei Fu

Association for Computing Machinery

[Semiconductor-superconductor hybrid device including an electrode array](#)

Charles Masamed Marcus, Andreas Simon Pöschl, Alisa Danilenko

Google Patents

[Local probe of bulk and edge states in a fractional Chern insulator](#)

Zhurun Ji, Jiun-Haw Chu, Xiaodong Xu, Zhi-Xun Shen

Nature

[Isolation of single donors in ZnO](#)

Lasse Vines, Steven R. Spurgeon, Kai-Mei Fu

Physical Review Journals

[Optically resolved exchange splittings in the doped van der Waals ferromagnet](#)

Thom J. Snoeren, Kimo Pressler, Daniel R. Gamelin

Physical Review Journals

[Technologies for modulation of visible light and their applications](#)

Sanghyo Park, Milica Notaros, Sara Mouradian

Science Direct

[Verifier-on-a-Leash: New schemes for verifiable delegated quantum computation, with quasilinear resources](#)

Andrea Coladangelo, Alex B. Grilo, Stacey Jeffery, Thomas Vidick

Theory of Computing

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