

Northwestern Quantum Week
Quantum Innovation Symposium

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Dr. Elena Glen is the Quantum Computing Lab Manager at the Quantum Machines quantum computing lab at the Illinois Quantum Microelectronics Park in Chicago. Prior to joining Quantum Machines, Dr. Glen worked as a Quantum Engineer at EeroQ Quantum Hardware, a venture-backed startup, where she developed scalable quantum hardware using electrons levitating on superfluid helium. Dr. Glen received her PhD in Quantum Engineering in 2022 from the University of Chicago, where she worked in Professor David Awschalom's research group studying single divacancies in silicon carbide for quantum communication. She has published numerous peer-reviewed articles and is passionate about business development in the quantum technology space.

The first native quantum data center

Details: Scalable quantum computing requires a shift away from viewing quantum systems as isolated monoliths. Instead, quantum processors must be tightly integrated with resources within a high performance computing infrastructure. In this talk, we present the core capabilities of the Israeli Quantum Computing Center (IQCC)—the world's first native quantum data center, powered by Quantum Machines—and explore how this model enables seamless integration between quantum and classical resources. We will discuss how this architecture lowers barriers to access, supports real-time control and feedback, and ultimately accelerates both research and the development of practical quantum applications.