

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING

Website: <https://cde.nus.edu.sg/ece>

Area: Quantum Technology (QT)

Host: Asst Prof Tan Kok Cheng Anthony

TOPIC	:	Quantum Technologies in Financial Services
SPEAKER	:	Dr Alejandro R.-P. Montblanch Quantum Communications and Networking, HSBC
DATE	:	Friday, 16 October 2026
TIME	:	4:00PM to 5:00PM
VENUE	:	E1-06-08

ABSTRACT

Quantum technologies are gaining an increased momentum across end users, in particular in the financial services. In this talk, Alejandro Montblanch, HSBC's Director of Quantum Security, will explain HSBC's strategy on quantum technologies, landscape, current views on progress, and discuss where the technology is heading from an end-user perspective. Attendees will leave with a clearer vision on the strategy and practical aspects on quantum-technology usage in financial institutions.

BIOGRAPHY

Dr Alejandro R.-P. Montblanch is Director of Quantum Security at HSBC, where he leads initiatives in quantum-safe cybersecurity, post-quantum cryptography, and quantum communications, including the deployment of quantum key distribution for secure financial transactions. He obtained his PhD in Physics from the University of Cambridge, where his research focused on two-dimensional semiconductor platforms for quantum technologies. He subsequently conducted postdoctoral research at QuTech, Delft University of Technology, in quantum networking and the development of the quantum internet. He has published in leading scientific journals, including Nature Nanotechnology, Nature Communications, and Physical Review Letters. His expertise spans experimental quantum physics, quantum networking, and the translation of quantum technologies into practical security applications.

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