

PQS2D

Programmable Quantum Simulators
based on 2D Materials



NEWSLETTER

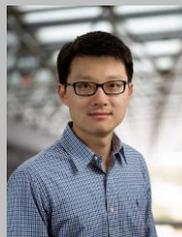
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ENGAGEMENT

Professor Adam Wei Tsen (uWaterloo)

As part of **uWaterloo's Science in the City – Quantum** initiative, Prof. Adam Wei Tsen delivered a public talk highlighting the rapidly evolving landscape of quantum innovation at Waterloo. The presentation introduced a broad audience to the fundamentals of quantum science and showcased cutting-edge research taking place at the university.

During **Chemistry Days**, Prof. Tsen offered an outreach lecture aimed at high school students with an interest in chemistry and scientific research. His talk provided an accessible introduction to current research themes in chemistry, including the intersection of quantum science and chemical systems.



Professor Ziliang Ye (UBC)

As part of the **Saturday Morning Lectures series**, an outreach program for the general public in the Vancouver area organized by UBC, SFU, and TRIUMF, Prof. Ziliang Ye delivered a talk on November 29, 2025. The lecture offered an accessible introduction to current research topics and conveyed the excitement of ongoing scientific discoveries. By engaging a diverse audience and fostering curiosity about quantum science, this outreach event contributed to strengthening public understanding and appreciation of research conducted at UBC and across the region.



RESEARCH HIGHLIGHT



[Landau-Zener-Stückelberg-Majorana Interferometry of a Single Hole](#), Phys. Rev. Lett. 135 059901 (2025), a contribution by Prof. Louis Gaudreau and Research Group, uOttawa & NRC

[Hydrogen passivation effects on spatially resolved charge trap densities in Si\(100\)-SiO₂](#), AIP Advances 15, 105024 (2025), a contribution by Prof. Petter Grutter and Research Group, McGill University

[Scanning Probe Microscopy Studies of Twisted 2D Materials](#), Electrochemical Society Meeting Abstracts 247, Issue 15, Pages 1139-1139, a contribution by Prof. Adina Luican-Mayer, uOttawa

NEXT SEMINAR

PQS2D and Science Colloquium Seminar – January 22nd, 2026,
2:45PM – uOttawa

Dr. Vedran Jelic (NRC) will deliver a lecture on the theme of THz-STM applied to 2D materials.

Stay Tune for more details!

