

Education

University of Neuchâtel

Ph.D. in Computer Science

NEUCHÂTEL, SWITZERLAND

Oct 2025 – Present

- Advised by Prof. Lydia Y. Chen in the Distributed Machine Learning Systems lab.
- I work on trustworthy machine learning systems for speech and time series synthesis.
- Published at NeurIPS.

University of Bern

M.S. in Computer Science

BERN, SWITZERLAND

Feb 2023 – Jan 2025

- Awarded 3rd place in IEEE/ACM International Workshop on SBFT CPS-UAV Tool Competition 2024.

New Era University College

B.S. in Software Engineering

KAJANG, MALAYSIA

May 2019 – May 2022

Publications

* indicates equal contribution

NeurIPS 2025 [Zhi Wen Soi](#)^{*}, Chaoyi Zhu^{*}, Fouad Abiad, Aditya Shankar, Jeroen M. Galjaard, Huijuan Wang, Lydia Y. Chen. TimeWak: Temporal Chained-Hashing Watermark for Time Series Data. *Conference on Neural Information Processing Systems*, 2025.

Spotlight

ECML PKDD 2025 [Zhi Wen Soi](#), Chenrui Fan^{*}, Aditya Shankar^{*}, Abele Mälan, Lydia Y. Chen. Federated Time Series Generation on Feature and Temporally Misaligned Data. *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases*, 2025.

SBFT@ICSE 2024 Marco De Liso, [Zhi Wen Soi](#). CAMBA: Cost-Aware Mutation-Based Test Case Generation for Unmanned Aerial Vehicles. *Search-Based and Fuzz Testing@International Conference on Software Engineering*, 2024.

Experience

University of Neuchâtel & TU Delft

Research Intern

NEUCHÂTEL, SWITZERLAND

Jun 2024 – Sep 2025

- Advised by Prof. Lydia Y. Chen. Conducted research on trustworthy and federated machine learning systems.

University of Putra Malaysia

Research Assistant

SERDANG, MALAYSIA

Jun 2022 – Jan 2023

- Trained object detection models using YOLOv5. Collected and processed 360° videos synchronized with sensor data from a dynamic construction site.

TigaKY Sdn Bhd

Embedded Software Engineer & Mobile Developer

PETALING JAYA, MALAYSIA

Mar 2021 – Oct 2022

- Developed IoT firmware and controller. Deployed MQTT broker optimized for speed and reliability.