



ISPE's 17th Asian Conference on Pharmacoepidemiology
21 – 23 November 2025 • Hong Kong



Educational Session Program Friday 21 November 2025

TRACK C: ARTIFICIAL INTELLIGENCE TOOLS TO SUPPORT PHARMACOEPIDEMIOLOGY RESEARCH (Intermediate) (English)

Session coordinator:

Dr Joseph Edgar Blais, Assistant Professor, Department of Pharmacology and Pharmacy, The University of Hong Kong

Instructors:

Professor Qingpeng Zhang, Associate Professor HKU Musketeers Foundation Institute of Data Science and Department of Pharmacology and Pharmacy, The University of Hong Kong

Professor Emmanuel Chun-Ka Wong, Clinical Assistant Professor, School of Clinical Medicine, LKS Faculty of Medicine, The University of Hong Kong

A/P Amy HY Chan, Associate Professor, School of Pharmacy, The University of Auckland

Dr Jay Gong, Lecturer in Clinical Pharmacy Practice, School of Pharmacy, The University of Auckland

Dr Deliang Yang, Post-doctoral fellow, School of Clinical Medicine, LKS Faculty of Medicine, The University of Hong Kong

Mr Daniel Qi Sun, PhD Candidate, Department of Pharmacology and Pharmacy, The University of Hong Kong

Time	Topic
09:00 – 10:30 (90 mins)	Introduction to language models and applications in unstructured clinical data Instructors: Qingpeng Zhang and Emmanuel Chun-Ka Wong
10:30 – 10:55 (25 mins)	BREAK
11:00 – 12:30 (90 mins)	AI models for prediction problems in pharmacoepidemiology Instructor: Qingpeng Zhang
12:30 – 13:30 (60 mins)	LUNCH on your own
13:30 – 15:00 (90 mins)	Efficient coding of prediction models in R and Python Instructors: Deliang Yang (Python) and Daniel Qi Sun (R)
15:00 – 15:25 (25 mins)	BREAK
15:30 – 16:00 (30 mins)	Efficient coding of prediction models in R and Python (Continued) Instructors: Deliang Yang (Python) and Daniel Qi Sun (R)
16:00 – 17:00 (60 mins)	AI tools in publishing medication-related AI and digital health research (Panel style discussion with answers to participant questions) Instructors: Qingpeng Zhang, Amy Hy Chan, Jay Gong
17:00	CLOSE