



統計科學研究所

INSTITUTE OF
STATISTICAL SCIENCE



S.E.M.I.N.A.R.



S.T.A.T.I.S.

Seminar

Title : Causal Inference in Precision Medicine: Past, Current, and Future

Speaker : Prof. Xiao-Hua Zhou (周曉華 教授)
(PKU Endowed Chair Professor, Beijing International Center for Mathematical Research and Chair, Department of Biostatistics Peking University)

Time : 10:30 AM ~ 12:00 PM , Thursday, Dec 29, 2022

Place : Auditorium, B1F, Institute of Statistical Science

Abstract

With recent advancement in basic science and technology, precision medicine has been advocated in medical community and influenced policymaking. Precision medicine aims to tailor medical treatments according to patient characteristics, and it has gained a lot of attention in modern biomedical research. The success of precision medicine crucially depends on the development of accurate and reliable statistical tools for making causal inference about the optimal treatment regime given the data collected from clinical trials or observational studies. In this talk, I will review some past and current statistical methodology for making causal inference in precision, particularly, using the covariate-specific treatment effect (CSTE) curve, and discuss some future research directions.

※ The tea reception will be held at 10:10.

※ Online live streaming through Cisco Webex will be available.