Division of Biostatistics, IHE
Medical College of Wisconsin presents

Scalable Competing Risk Modeling for Administrative Databases and Disease Registries

By: Wenbo Wu, PhD (c).

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Tuesday, April 12th | 3:30PM - 4:30PM

Competing risks, i.e., terminal events of distinct failure types (e.g., different causes of death), are omnipresent in large-scale administrative records and disease registries. The increasing availability of data facilitates a comprehensive investigation on competing risks in various contexts, potentially leading to evidence-informed healthcare policy, improved clinical practice, and a deeper understanding of critical issues in population health. On the other hand, the growing volume of data, high-dimensional parameter space, and complexity of modeling necessitate methodological advances beyond existing analytical frameworks. In this talk, I will discuss scalable statistical and computational methods for assessing the performance of healthcare providers (e.g., Medicare-certified dialysis facilities), studying the cause-specific etiology of a fatal disease (e.g., breast cancer), and understanding the dynamic impact of a health crisis (e.g., COVID-19).

Wenbo Wu, PhD (c).

Wenbo Wu is a Ph.D. candidate in Biostatistics and Scientific Computing in the Department of Biostatistics and the Michigan Institute for Computational Discovery & Engineering at the University of Michigan. His current research synthesizes state-of-the-art methods from statistics, computational science, optimization, and machine learning to address critical and far-reaching issues in health services research and clinical practice, leveraging large-scale data from administrative databases, national disease registries, electronic medical records, and randomized controlled trials. At Michigan, Wenbo is affiliated with the Kidney Epidemiology and Cost Center, the Department of Family Medicine, and the Precision Health Initiative. He also serves as a predoctoral research fellow at Boston University Questrom School of Business, and the Behavior Change for Good Initiative, the Wharton School of the University of Pennsylvania. Wenbo received his M.S. in Economics from the University of Wisconsin-Madison, M.A. in Labor Economics from the Central University of Finance and Economics (China), and B.A. in Financial Management from Tianjin University (China).

Location: Zoom | https://mcw-edu.zoom.us/j/99853549981?pwd=Vm5kK3RNTjNVQ1YxSkdDdnJicFlMZz09