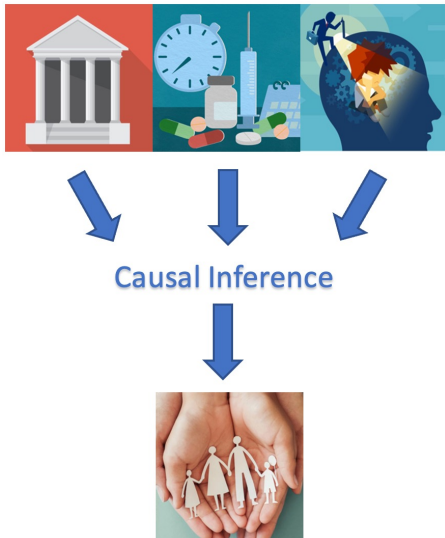


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Many scientific questions of interest in health and social sciences are essentially about causation rather than association. However, the gold standard of a randomized experiment may not always be ethical or practical. In these cases, it is important to develop statistical and computational tools to reveal causal evidence with observational studies.



Research Interests

- Causal inference in observational studies
- Design and analysis of large and complex observational studies
- Applications in public health, public policy, and social sciences

Current Projects

- Causal inference in observational factorial studies with multiple treatments
- Strengthen causal evidence by combining observational studies with randomized experiments
- Incorporating machine learning techniques in the design and analysis of observational studies

Keywords

Causal inference, observational studies, public health, public policy, social sciences

Interest Areas for Collaboration/Future Work

Dr. Yu is interested in developing statistical and computational tools to reveal causal evidence to advance public health, public policy, and social sciences.