

Causal Inference Methods in Air Pollution Health Effects Research and Policy

Co-Chairs:

Francesca Dominici/Harvard TH Chan School of Public Health
& HEI Research Committee

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Speakers

- ▣ **Richard Scheines**, Carnegie Mellon University
- ▣ **Tony Cox**, Cox Associates
- ▣ **Sharon-Lise Normand**, Harvard Medical School and TH Chan School of Public Health
- ▣ Panel: **Lianne Sheppard**, University of Washington School of Public Health

Some questions we have asked...

- ▣ What are the philosophical underpinnings of causal relationships?
- ▣ For any causal inference method, what are the key elements:
 - ▣ assumptions
 - ▣ design considerations
 - ▣ theoretical properties
 - ▣ data requirements?
- ▣ What else do we need to know, or to be given (peer review, simulation studies, sensitivity analyses, etc), to critically evaluate the validity of the methods?
- ▣ What are other potential opportunities and shortcomings that we should be aware of?
- ▣ Suggested readings?