

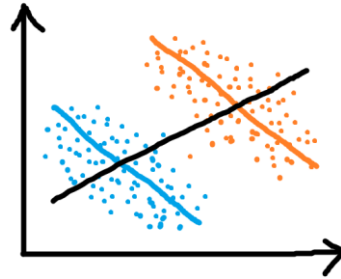
Café Scientifique Headingley

Monday 9th March 2020 at 7:30pm

Causal inference & the science of cause and effect

by

Kellyn Arnold



Outline: For most of history, causality has been a topic relegated to philosophers. Questions of cause and effect are at the heart of a great deal of scientific enquiry, yet such questions cannot be answered – or even articulated – in the traditional language of statistics. Moreover, the familiar mantra that ‘correlation does not imply causation’ only masks the advances that have been made in the field of causal inference in statistics. A formal framework for causal inference has emerged and matured within the last 30 years and spawned a discipline of statistics which places questions of cause and effect at its centre. This discipline has a central role to play in the information age, in which massive amounts of data are available to be exploited. This talk will cover the importance and utility of causal inference methods, as well as some of the fundamental concepts in causal inference.

Kellyn Arnold is in the final stages of completing a PhD in statistical epidemiology at the University of Leeds. Her academic interests relate primarily to causal inference, or the formal statistical processes by which we infer cause-and-effect relationships from data. Specifically, her research focuses on developing and applying methods for causal inference in the context of observational health data, with explicit focus on longitudinal data structures, that is those evolving over time.

Venue: The New Headingley Club, 56 St Michael's Rd., Leeds LS6 3BG

Time: Club opens at 7:00pm for drinks & the room at 7:30; talk begins promptly at 7:45pm

Entry: Donation please for room hire and expenses: **£3 at the door**



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