

Experimental Design and Analysis

23 – 27 June 2022

9am – 12nn (HKT)

SPEAKER:

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Abstract

This short module aims to help participants understand the foundations of modern causal inference. It will start from reviewing the basic concepts such as the potential outcome framework and the fundamental problem of causal inference. We will then discuss issues in experimental design, including different ways of assigning the treatment, the bias and efficiency of each estimator, tools of conducting statistical inference, and power analysis. Finally, we will investigate the idea of the design-based approach, which advocates analysing observational studies as if they were experiments. The sessions will introduce common methods in the field, such as regression, weighting, matching, balancing, and sensitivity analysis, from a modern perspective.

Speaker Bio

Dr Ye Wang is a postdoctoral researcher at the School of Global Policy and Strategy, UC San Diego. In Fall 2022, he will join the Department of Political Science at the University of North Carolina at Chapel Hill as an Assistant Professor. Ye received a PhD from the Wilf Family Department of Politics at New York University, an MA in economics from the National School of Development, Peking University, and a BS in mathematics from Fudan University. Ye's research focuses on both political methodology and comparative politics. As a methodologist, Ye develops statistical tools to investigate the spillover effects of policies or events in time, space, and social networks, as well as to improve the transparency of research designs and hypothesis testing. His dissertation was awarded the John T Williams Prize by the Society for Political Methodology in 2020. As a comparativist, Ye applies these methods to understand the role of social learning in shaping people's views and actions under non-democratic regimes, and the interaction between contentious and electoral politics. His work has been published in journals such as the *American Journal of Political Science* and *Electoral Studies*.