This course offers an in-depth survey of modern instrumental variables (IV) analysis. IV analysis is an important quasi-experimental technique for identifying the causal effect. The method can be applied in various fields of researches, such as economics, the social and biomedical sciences, business, marketing, and education. The process of selecting instrumental variables, conducting related estimations, and explaining the results will be discussed. The course will combine lectures, discussions and hands-on exercises.

Course Outline

- Causal effects
- Approaches to IV analysis
- Types of IV analysis
- Uses of IV analysis
- IV Estimator
- Estimation for Multiple Regression
- Understanding assumptions and their consequences
- Testing assumptions
- IV in practice and running examples

Who Should Attend

This course is designed for researchers, practitioners and policy makers who are interested in gaining an in-depth knowledge of instrumental variables and learning how to use them in their research and survey methods.

Prerequisites

Participants should have a good working knowledge of multiple regression and basic knowledge of Stata.

Enquiries

Contact CFPR at:
Tel: (65) 6601 4987 / 6601 4959
Email: cfpr@nus.edu.sg
Website: www.fas.nus.edu.sg/cfpr

Dr. Haoming Liu is Associate Professor in the Economics Department at the National University of Singapore. His research focuses on topics in income inequality and mobility, demography, and Chinese labour market. His recent paper on quality-quantity trade-off won the 2015 Kuznets price of the Journal of Population Economics. He is currently working on intergenerational mobility in China and Indonesia, and the impact of air pollution on labour productivity, health and school performance. He has taught various courses that need in-depth data analyses, such as Labour Economics, Health Economics and Topics in Econometrics in both undergraduate and graduate level.