

## Missing Data in Longitudinal and Linked Surveys 2020

*A joint CeMMAP and Understanding Society workshop series*

Longitudinal surveys are crucial resources for analysing and understanding how economic and social behaviour change over time. Because they provide repeated observations of the same observational units over time, they enable researchers to answer a host of questions about how individual heterogeneous units respond to economic and social factors.

Developing new methods to address the challenges caused by missing data problems in longitudinal surveys is a research area of first-order importance. The longitudinal nature of these studies results in complex patterns of missing data. The interaction of attrition and time-varying nonresponse with the rich features of longitudinal surveys (such as rotating content) and the multipurpose nature of such studies results in a multiplicity of patterns of missingness for researchers analysing the data in different ways or for different purposes.

These issues are also of first order importance in analysing data obtained from the linkage of survey data with administrative or other external data sources. Data linkage results in complete cases only for the intersection of cases that are complete in both the survey and administrative data. Moreover, the linkage processes itself can result in additional missing data, through lack of consent or failure to match.

These workshops bring together statisticians, econometricians, survey designers, and data users to discuss new results and open questions in this important research area. Workshops will discuss practical experience in collecting and using panel data, advances in statistical and econometric methods to address missing data problems, and applications of these methods to important research questions.

For further information or to register go to [Missing Data Conference](#) or email [cemmapevent@ifs.org.uk](mailto:cemmapevent@ifs.org.uk).

### **Autumn Workshop** **Friday 18th September 2020,** *Online Only*

#### 13:00 Welcome

13:00 – 13:45

*Kate Tilling, Bristol*, Using Directed Acyclic Graphs to Inform Missing Data Analyses

13:45 - 13:55 Discussion

13:55 – 14:40

*Fiona Pashazadeh, Manchester*, Making inference to the population from nationally representative longitudinal surveys with missing data due to nonresponse to biological data collection

14:40- 14:50

Discussion

#### 14:50 – 15:00 Break

15:00 – 15:45

*Chris Muris, McMaster*, Efficient GMM Estimation with Incomplete Data

15:45- 15:55

Discussion

15:55 – 16:40

*Jeff Wooldridge, Michigan State, Panel Data Models with Heterogeneous Slopes and Missing Covariates (with Bhavna Rai)*

16:40- 16:50

Discussion

17:00 Close