



Jerry Reiter
Department of Statistical Science
Duke University

How Auxiliary Information Can Help Your Missing Data Problem

Wednesday, April 19, 2023

11:50 AM

110 Frelinghuysen Road, Hill Center, Room 552

Zoom Meeting: Meeting ID: 99075124232

Password: 952486

<https://rutgers.zoom.us/j/99075124232?pwd=UDdPVjRncXZFcXpvaFE0OWJyMVdSUT09>

Light refreshments will be served

Abstract:

Many surveys (and other types of databases) suffer from unit and item nonresponse. Typical practice accounts for unit nonresponse by inflating respondents' survey weights, and accounts for item nonresponse using some form of imputation. Most methods implicitly treat both sources of nonresponse as missing at random. Sometimes, however, one knows information about the marginal distributions of some of the variables subject to missingness. In this talk, I discuss how such information can be leveraged to handle nonignorable missing data, including allowing different mechanisms for unit and item nonresponse (e.g., nonignorable unit nonresponse and ignorable item nonresponse).

Bio:

Jerry Reiter is the Dean of the Natural Sciences and Professor of Statistical Science at Duke University. His primary areas of research include methods for ensuring data privacy, for handling missing and erroneous values, for combining information across sources, and for analyzing complex data in the social sciences and public policy. He is a Fellow of the American Statistical Association and a Fellow of the Institute of Mathematical Statistics. He is the recipient of several teaching and mentoring awards from Duke University, including the Alumni Distinguished Undergraduate Teaching Award, the Outstanding Postdoctoral Mentor Award, and the Master's of Interdisciplinary Data Science Distinguished Faculty Award.

