[WSS] 33rd Annual Morris Hansen Lecture and Reception

Register here

Title: Combining Information from Multiple Data Sources Using Statistical Modeling and Methods

Date and Time: *Wednesday, November 12, 2025* | 3:30 - 6:30 pm EST

Location (in-person only): *Summit Consulting LLC, 2nd Floor Conference Room*

(Address: *777 6th Street Northwest, Washington, DC 20001*)

Keynote Speaker:

Dr. Partha Lahiri, Professor of the Joint Program in Survey Methodology (JPSM) and the Department of Mathematics at the University of Maryland College Park (UMD)

Discussants:

- *Dr. Beka Steorts*, *Associate Professor of the Department of Statistical Science at Duke University and affiliated faculty in Computer Science, Biostatistics and Bioinformatics, the information initiative at Duke (iiD), and the Social Science Research Institute*
- *Lisa Mirel, Statistical Advisor, National Center for Science and Engineering Statistics within the National Science Foundation*

Abstract

The demand for statistics on diverse topics—including socio-economic conditions, agriculture, health, and transportation—is on the rise, while governments and survey organizations have strived to address the increasing costs of conducting high-quality surveys. Along with technological advancements, the increasing accessibility of various data sources, including administrative records, geospatial data, social media data, and AI-generated data, presents researchers with new opportunities to produce improved estimates. In addition, this allows for the investigation of complex problems that would be challenging using only a single data source. Recently there has been a significant surge in statistical methodological research for diverse applications that is focused on combining information from multiple data sources.

In this presentation I will begin by briefly discussing the scope of statistical modeling to harness information from multiple data sources for precise estimates at a granular level, conducting multivariate analysis when a single data source lacks all relevant variables, reducing nonsampling errors in probability samples, mitigating self-selection biases in nonprobability samples, and addressing other emerging challenges. The remainder of

my presentation will focus on recent statistical methodological developments for combining information from multiple data sources in the context of small area estimation for poverty mapping—a topic of significant interest to various national statistical offices and international agencies.

Register here *by November 11, 2025 (free**,** but pre-registration is required):*

https://www.eventbrite.com/e/33rd-annual-morris-hansen-lecture-and-reception-tickets-1735183192639?aff=ebdssbdestsearch

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