

Future Directions for Social and Behavioral Science Methodologies in the Next Decade: A Workshop

September 25–26, 2024 • Washington, DC

Keck Center, Room 208 • 500 5th Street NW • and virtual webcast

Agenda (as of 9/15/2024)

Day 1: Wednesday, September 25, 2024

9:00am A. Introduction to the Workshop

- Welcome from Planning Committee Chair
3/In-Person KRISTEN OLSON, *University of Nebraska–Lincoln*
Welcome from Committee on National Statistics
3/In-Person MELISSA CHIU, *Director, Committee on National Statistics*
Welcome from Methodology, Measurement, and Statistics Program, and Objectives for the Workshop
9/In-Person CHERYL EAVEY, *National Science Foundation*

9:15am B. New Study Designs

- Novel Experimental Designs for Optimizing Adaptive Interventions
20/In-Person INBAL BILLIE NAHUM SHANI, *University of Michigan*
High-Throughput Experimentation and Experimental Design Innovations
20/Virtual KATHERINE MILKMAN, *University of Pennsylvania*
New Methodological Approaches for Integrating Generative AI Models into Behavioral Science Experiments
20/In-Person THOMAS COSTELLO, *American University*
Discussant Remarks on Adaptive and Responsive Designs
Floor Discussion/Questions and Answers
30/In-Person *Discussant & Moderator:* STEPHANIE COFFEY, *U.S. Census Bureau*, with FRED OSWALD, *Rice University*

10:45am Break for Informal Discussion and Further Q&A with Presenters

11:00am C. Artificial Intelligence and Data Analysis

- Machine Learning and AI in Econometrics
20/Virtual SUSAN ATHEY, *Stanford University*
AI for Social Science Research
20/Virtual CHRIS BAIL, *Duke University*
AI and Data
20/In-Person SETH SPIELMAN, *Microsoft, Inc.*
Discussant Remarks on Machine Learning for Survey Data
Floor Discussion/Questions and Answers
30/Virtual *Discussant & Moderator:* FRAUKE KREUTER, *University of Maryland*, with JOHN ELTINGE, *U.S. Census Bureau*

12:30pm Working Lunch to Discuss the Morning Presentations

1:30pm D. Causal Inference

- Distinguishing Between Association and Causation (Practicing What We Preach), and the Interface Between Causal Inference and Psychosocial Measurement
20/Virtual TYLER J. VANDERWEELE, *Harvard University*
New Developments in Causal Inference and Machine Learning; Heterogeneous Causal Effects
20/Virtual JENNIE BRAND, *University of California, Los Angeles*
Sensitivity Analysis and Automation for Robust Causal Analysis in the Social Sciences
20/Virtual CARLOS CINELLI, *University of Washington*
Discussant Remarks on Directions for Causal Inference in Economics
Floor Discussion/Questions and Answers
30/In-Person *Discussant & Moderator:* RODRIGO PINTO, *University of South Florida*

3:00pm	Break for Informal Discussion and Further Q&A with Presenters
3:15pm	E. New Directions in Spatial Analysis Effect of Location on Human Decision-Making and Implications for Social and Environmental Sciences 20/Virtual A. STEWART FOTHERINGHAM, <i>Arizona State University</i> Mesogeography and Urban Observatories: Cities as Complex Systems 20/Virtual HARVEY MILLER, <i>Ohio State University</i> Spatial Social Networks and Alternatives to Demographic Indicators 20/In-Person CLIO ANDRIS, <i>Georgia Tech</i> Discussant Remarks on The Importance of Place and New Data Sources Floor Discussion/Questions and Answers 30/Virtual <i>Discussant & Moderator: ERIC CHYN, University of Texas at Austin, with SHAOWEN WANG, University of Illinois Urbana-Champaign</i>
4:45pm	F. Day 1 Recap and General Discussion
30/In-Person	<i>Discussant & Moderator: KRISTEN OLSON, University of Nebraska–Lincoln</i>
5:15pm	Planned Adjournment of Day 1

Day 2: Thursday, September 26, 2024
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9:00am	G. Reintroduction to the Workshop Welcome from Planning Committee Chair 5/In-Person KRISTEN OLSON, <i>University of Nebraska–Lincoln</i>
9:05am	H. Sensors, Apps, and Other Technologies Multimodal Measurement Methods and Technologies 20/Virtual AKANE SANO, <i>Rice University</i> Texting and Mixed-Mode Surveys 20/In-Person LEAH CHRISTIAN, <i>NORC at the University of Chicago</i> Video Interviewing 20/In-Person SUNSHINE HILLYGUS, <i>Duke University</i> Collecting Digital Trace Data via Data Donation 20/Virtual FLORIAN KEUSCH, <i>University of Maryland and University of Mannheim</i> Discussant Remarks Floor Discussion/Questions and Answers 20/In-Person <i>Discussant & Moderator: CAMERON MCPHEE, SSRS, with FRED OSWALD, Rice University</i>
10:45am	Break for Informal Discussion and Further Q&A with Presenters
11:00am	I. Data Protection and Dissemination Enhancing Inference for Nonprobability Samples with Administrative Data and Probability Surveys 20/Virtual QIXUAN CHEN, <i>Columbia University</i> Privacy and Disclosure Methods and Designs 20/In-Person RUOBIN GONG, <i>Rutgers University</i> Future Directions for Post-Survey Adjustments and Statistical Disclosure Limitation in Official Statistics 20/Virtual NATALIE SHLOMO, <i>University of Manchester</i> Discussant Remarks Floor Discussion/Questions and Answers 30/In-Person <i>Discussant & Moderator: MATT WILLIAMS, RTI, with JOHN ELTINGE, U.S. Census Bureau</i>
12:30pm	Working Lunch to Discuss the Morning Presentations

1:30pm	J. New Data Sources
	Online Panel Sample Quality
20/In-Person	ANDREW MERCER, <i>Pew</i>
	Combining Probability and Nonprobability Samples
20/Virtual	MIKE ELLIOTT, <i>University of Michigan</i>
	Remote Sensing
20/In-Person	BUDHU BHADURI, <i>Oak Ridge National Laboratory</i>
	Discussant Remarks on New Directions for New Data Sources
	Floor Discussion/Questions and Answers
30/Virtual	<i>Discussant & Moderator: NANCY POTOK, NAPx Consulting, with KATHLEEN CAGNEY, University of Michigan</i>
3:00pm	K. Day 2 Recap and General Discussion
30/In-Person	<i>Discussant & Moderator: KATHLEEN CAGNEY, University of Michigan</i>
3:30pm	Planned Adjournment of Day 2

PLANNING COMMITTEE FOR FUTURE DIRECTIONS FOR SOCIAL AND BEHAVIORAL SCIENCE METHODOLOGIES IN THE NEXT DECADE: A WORKSHOP

KRISTEN M. OLSON (*chair*), *University of Nebraska–Lincoln*
ABDULLAH M. ALMAATOUQ, *MIT Sloan School of Management*
KATHLEEN A. CAGNEY, *Institute for Social Research, University of Michigan*
JOHN L. ELTINGE, *U.S. Census Bureau*
FREDERICK L. OSWALD, *Rice University*
RODRIGO PINTO, *University of South Florida*
SHAOWEN WANG, *University of Illinois Urbana-Champaign*

Workshop Statement of Task: A planning committee of the National Academies of Sciences, Engineering, and Medicine (National Academies) will organize and execute a public workshop to bring together relevant experts to review the current state and development of innovative, analytical, and statistical methods and models that have potential utility for multiple fields within the social, behavioral, and economic sciences. The goal of this workshop is to focus discussions on future needs and methodological frontiers to identify what innovations, approaches, and considerations deserve more research attention and are expected to benefit more than a single discipline. The committee will consider potential developments in artificial intelligence, machine learning, and methods for mining and making greater use of new, blended, and other big data sources for social, behavioral, and economic research, as well as potential developments in survey methods, psychometrics, causal modeling, and other areas. The planning committee will define the specific topics to be addressed in consultation with the National Science Foundation, develop the agenda, and select and invite speakers and other participants. After the workshop, a proceedings of the workshop-in-brief will be prepared by a designated rapporteur in accordance with National Academies' guidelines and shall be released to the public.