

**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**

<b>9:00am</b>	<b>A. Introduction to the Workshop</b>
3/In-Person	Welcome from Planning Committee Chair KRISTEN OLSON, <i>University of Nebraska–Lincoln</i>
3/In-Person	Welcome from Committee on National Statistics MELISSA CHIU, <i>Director, Committee on National Statistics</i>
9/In-Person	Welcome from Methodology, Measurement, and Statistics Program, and Objectives for the Workshop CHERYL EAVEY, <i>National Science Foundation</i>
<b>9:15am</b>	<b>B. New Study Designs</b>
20/In-Person	Novel Experimental Designs for Optimizing Adaptive Interventions INBAL BILLIE NAHUM SHANI, <i>University of Michigan</i>
20/Virtual	High-Throughput Experimentation and Experimental Design Innovations KATHERINE MILKMAN, <i>University of Pennsylvania</i>
20/In-Person	New Methodological Approaches for Integrating Generative AI Models into Behavioral Science Experiments THOMAS COSTELLO, <i>American University</i>
30/In-Person	Discussant Remarks on Adaptive and Responsive Designs Floor Discussion/Questions and Answers <i>Discussant &amp; Moderator: STEPHANIE COFFEY, U.S. Census Bureau, with FRED OSWALD, Rice University</i>
<b>10:45am</b>	<b>Break for Informal Discussion and Further Q&amp;A with Presenters</b>
<b>11:00am</b>	<b>C. Artificial Intelligence and Data Analysis</b>
20/Virtual	Machine Learning and AI in Econometrics SUSAN ATHEY, <i>Stanford University</i>
20/Virtual	AI for Social Science Research CHRIS BAIL, <i>Duke University</i>
20/In-Person	AI and Data SETH SPIELMAN, <i>Microsoft, Inc.</i>
30/Virtual	Discussant Remarks on Machine Learning for Survey Data Floor Discussion/Questions and Answers <i>Discussant &amp; Moderator: FRAUKE KREUTER, University of Maryland, with JOHN ELTINGE, U.S. Census Bureau</i>
<b>12:30pm</b>	<b>Working Lunch to Discuss the Morning Presentations</b>
<b>1:30pm</b>	<b>D. Causal Inference</b>
20/Virtual	Distinguishing Between Association and Causation (Practicing What We Preach), and the Interface Between Causal Inference and Psychosocial Measurement TYLER J. VANDERWEELE, <i>Harvard University</i>
20/Virtual	New Developments in Causal Inference and Machine Learning; Heterogeneous Causal Effects JENNIE BRAND, <i>University of California, Los Angeles</i>
20/Virtual	Sensitivity Analysis and Automation for Robust Causal Analysis in the Social Sciences CARLOS CINELLI, <i>University of Washington</i>
30/In-Person	Discussant Remarks on Directions for Causal Inference in Economics Floor Discussion/Questions and Answers <i>Discussant &amp; Moderator: RODRIGO PINTO, University of South Florida</i>

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

**Day 2: Thursday, September 26, 2024**

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

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

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## 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.