**Federal Committee on Statistical Methodology**

**2022 Research and Policy Conference**

[**FCSM 2022 Program**](https://www.fcsm.gov/assets/files/docs/2021-11-05_FCSM-2021-Program.pdf)**(click to download) [FCSM+2022+Program\_Draft2.7]**

**October 25-27, 2022**

**Walter E. Washington Convention Center**

**Washington, DC**

Hosted By:**Council of Professional Associations on Federal Statistics**

**Plenary Session 1**

**Tuesday, October 25**

Organizer: Shelly Martinez, *Office of Management and Budget*

**Welcoming Remarks [P1.1Intro\_10172022\_Martinez]**

Shelly Martinez, *Office of Management and Budget*

**Remarks from the Chief Statistician of the United States**

**[P1.2\_CSOTUS\_FSS Updates\_FCSM Briefing\_Oct25\_2022]**

Karin Orvis, *Chief Statistician of the United States*

**The Role of Data Quality in a 21st Century Federal Statistical System [P1.3\_20221025-remarks-fcsm-keynote]**

Rob Santos, *U.S. Census Bureau*

**Robert Santos** is the 26th director of the U.S. Census Bureau. Santos’ career spans more than 40 years in survey research, statistical design and analysis, and executive-level management. Santos served as the 2021 president of the American Statistical Association (ASA) and is an ASA Fellow and recipient of the ASA Founder’s Award in 2006. He was the 2014 president of the American Association for Public Opinion Research (AAPOR) and received the 2021 AAPOR Award for Exceptionally Distinguished Achievement. He earned a B.A. in mathematics from Trinity University in San Antonio and an M.A. in statistics from the University of Michigan at Ann Arbor. Mr. Santos’s talk is entitled, “The Role of Data Quality in a 21st Century Federal Statistical System”.

**Concurrent Sessions A**

**Tuesday, October 25**

**10:00-11:45 am**

**Session A-1. Economic Statistics at the Cutting Edge**

Organizer: Kyle Hood, *Bureau of Economic Analysis*

Chair: Kyle Hood, *Bureau of Economic Analysis*

**Do Workers have a Firm Sense of Industry Codes? Comparing Worker and Employer Descriptions of Business Activity [A1.1\_Chow]**

Melissa Chow, *U.S. Census Bureau*

Martha Stinson*, U.S. Census Bureau*

**Learning a Low-Dimensional Representation of Job History for Economic Adjustment [A1.2\_Vafa]**

Keyon Vafa, *Columbia University*

David Blei*, Columbia University*

Susan Athey*, Stanford University*

**Estimating Women’s Eligibility for WIC: Postpartum and Breastfeeding Women [A1.3\_McBride]**

Linden McBride, *U.S. Census Bureau*

Maria Perez-Patron, *U.S. Census Bureau*

Renuka Bhaskar, *U.S. Census Bureau*

**Twenty-One Years of Adjustments for Quality Change in the U.S. Consumer Price Index [A1.4\_Williams]**

Brendan Williams, *Bureau of Labor Statistics*

**Session A-2. Data Linkage, Privacy, and Modernization**

Organizer: Janine McFadden, *Bureau of Transportation Statistics*

Chair: Janine McFadden, *Bureau of Transportation Statistics*

**Modernization of NCHS’ National Health Care Surveys to Meet Continually Evolving Data Needs for the 21st Century [A2.1\_Ward]**

Brian W. Ward, *National Center for Health Statistics*

Carol J. DeFrances*, National Center for Health Statistics*

Manisha Sengupta*, National Center for Health Statistics*

**The NCHS Data Presentation Standards for Rates and Counts [A2.2\_Parker]**

Jennifer Parker, *National Center for Health Statistics*

**Fulfilling Statistical Policies with Data Curation Practices [A2.3\_Christiansen]**

Leighton L Christiansen, *Bureau of Transportation Statistics*

Jesse Long, *Bureau of Transportation Statistics*

**Comparison of Poisson-gamma and Laplace Mechanisms for Differential Privacy [A2.4\_Quick]**

Harrison Quick, *Drexel University*

**Session A-3. Statistical Innovation and Measuring the Innovative**

Organizer: Ben Franco, *Social Security Administration*

Chair: Ben Franco, *Social Security Administration*

**The Census Bureau’s New Annual Total Business Demographics Program: A Hybrid-Data Approach [A3.1\_Luque]**

Adela Luque, *U.S. Census Bureau*

Aneta Erdie, *U.S. Census Bureau*

**Are Some Innovation Self-Reports in the Annual Business Survey Biased? A Regression Discontinuity Test [A3.2\_Han]**

Luyi Han, *Pennsylvania State University*

Zheng Tian*, Pennsylvania State University*

Timothy R. Wojan*, National Center for Science and Engineering Statistics*

Stephan Goetz*, Pennsylvania State University*

**Ownership Team Diversity and Innovation: Using Split Sample Design to Generate More Credible Findings [A3.3\_Wojan]**

Timothy R. Wojan, *National Center for Science and Engineering Statistics*

**Modeling Approaches to Estimate Community Annoyance Due to Sonic Booms using Data from Repeated Surveys [A3.4\_Ferg]**

Robyn Ferg, *Westat*

Jean Opsomer, *Westat*

**The Power of Pandemic Nearcasting to Harness Bigdata and Nudge Evidence-Based Public Policymaking 2.0**

Asaph Young Chun, *Seoul National University and ISR Foundation*

David Cho, *ISR Foundation*

KyuBin Moon, *ISR Foundation*

Benjamin YoungJin Tae,*ISR Foundation*

**Session A-4. Best Practices for Monitoring and Evaluating the ARP, IIJA and Other Programs: Report of the Department of Commerce Data Governance Working Group**

Organizer: Carla Medalia, *U.S. Census Bureau*

**Chair:** **[A4.0\_Page]** Ben Page*, Department of Commerce*

**Framework for Enabling Program Evaluation in the Federal Government [A4.1\_Jarmin]**

Ron Jarmin, *U.S. Census Bureau*

**Census Bureau's Data Linkage Infrastructure for Program Evaluation [A4.2\_Medalia]**

Carla Medalia, *U.S. Census Bureau*

**Data Requirements for Program Evaluation: Perspectives from an Implementing Bureau [A4.3\_Smith]**

Ryan Smith, *Economic Development Administration*

**Discussant:** **[A4.3\_Wise]** Oliver Wise*, Department of Commerce*

**Session A-6. Sampling and Participation**

Organizer: Jennifer Rhorer, *National Agricultural Statistics Service*

Chair: Danny Yang, *Bureau of Labor Statistics*

**Predicting Eligibility of a Very Rare Household Population to Improve Sample Design**

Jamie Ridenhour, *RTI International*

Joseph McMichael*, RTI International*

Rob Andrews*, National Oceanic and Atmospheric Administration*

**Hitting the Target?: The Use of Targeted Samples in Probability-based Samples [A6.2\_Thomas]**

Randall K. Thomas, *Ipsos Public Affairs*

Frances M. Barlas*, Ipsos Public Affairs*

Megan A. Hendrich*, Ipsos Public Affairs*

Kathleen Santos*, Ipsos Public Affairs*

**The Contrafactual Degrees of Freedom [A6.3\_Kott]**

Phillip S. Kott, *RTI International*

**Predicting Future Panel Participation in AmeriSpeak panel [A6.4\_Kolenikov]**

Stas Kolenikov, *NORC at the University of Chicago*

Ipek Bilgen, *NORC at the University of Chicago*

David Dutwin, *NORC at the University of Chicago*

Poulami Maitra, *NORC at the University of Chicago*

**Is A Picture Worth a Thousand Words?: Impact of Infographics on Response Rates in a Federal Survey**

Julia Merlin, *National Center for Education Statistics*

Allison Zotti*, U.S. Census Bureau*

**Concurrent Sessions B**

**Tuesday, October 25**

**1:15-3:00 pm**

**Session B-1. Assessing Quality in Non-Traditional Data Sources for National Statistics: Report from the Task Team on Big Data for the Sustainable Development Goals**

Organizer: Jennifer Park, *Committee on National Statistics, World Bank*

Chair: Maciej Truszczynski*, Statistics Denmark*

**Assessing Quality in Non-Traditional Data Sources [B1.1\_Truszcyznski]**

Maciej Truszczynski, *Statistics Denmark*

**Emissions and Ship Traffic**

Dominik Rozkrut, *Statistics Poland*

**Creation of a Composite Quality Indicator for Estimates Based on Administrative Data Using Clustering [B1.3\_Gagnon]**

Roxanne Gagnon, *Statistics Canada*

**Nowcasting Global Poverty [B1.4\_Mahler]**

Daniel Gerszon Mahler, *World Bank*

**Discussant:** Melissa Chiu*, Committee on National Statistics*

**Session B-2. Using Linked Data to Understand Mortality Patterns for Vulnerable Populations**

Organizer: Sonya R. Porter, *U.S. Census Bureau*

Chair: Eric English*, U.S. Census Bureau*

**Mortality in a Multi-State Cohort of Former State Prisoners, 2010-2015 [B2.1\_Porter]**

Sonya R. Porter, *U.S. Census Bureau*

Leticia Fernandez*, U.S. Census Bureau*

Eric English*, U.S. Census Bureau*

Sharon Ennis*, Department of Veteran Affairs*

E. Ann Carson*, Bureau of Justice Statistics*

**Age, Sex, and Racial/Ethnic Disparities and Temporal-Spatial Variation in Excess All-Cause Mortality During the COVID-19 Pandemic: Evidence from Linked Administrative and Census Bureau Data [B2.2\_Foster]**

Thomas B. Foster, *U.S. Census Bureau*

Leticia Fernandez*, U.S. Census Bureau*

Sonya R. Porter*, U.S. Census Bureau*

Nikolas Pharris-Ciurej*, U.S. Census Bureau*

**The Impacts of Rent Burden and Eviction on All-Cause Mortality in the United States [B2.3\_Graetz]**

Nick Graetz, *Princeton University*

Emily Lemmerman, *Princeton University*

Carl Gershenson, *Princeton University*

Danielle H. Sandler, *U.S. Census Bureau*

Sonya R. Porter, *U.S. Census Bureau*

Matthew Desmond, *Princeton University*

Discussant: Lauren Rossen*, National Center for Health Statistics*

**Session B-3. Considerations and Advancements in Sampling**

Organizer: Stephanie Coffey, *U.S. Census Bureau*

Chair: Stephanie Coffey, *U.S. Census Bureau*

**Demographic Surveys Redesign Program: Evidence-based, Participatory Decision-making [B3.1\_Levy]**

Richard Levy, *U.S. Census Bureau*

**Bayesian Stratified Sampling for Establishment Surveys with Uncertain Design Parameters [B3.2\_Mendelson]**

Jonathan Mendelson, *Bureau of Labor Statistics*

Michael Elliott, *University of Michigan*

**Matrix Sampling in General Population Web Surveys [B3.3\_Suzer-Gurtekin]**

Z. Tuba Suzer-Gurtekin, *University of Michigan*

Zhen Sun, *University of Michigan*

Yuxuan Chen, *University of Michigan*

Xinran Wang, *University of Michigan*

James Wagner, *University of Michigan*

Joanne Hsu, *University of Michigan*

**Session B-4. Pandemic and Related Fiscal Policies**

Organizer: Derek Wu, *University of Virginia*

Chair: William Gale*, Brookings Institution*

**The Anti-Poverty, Targeting, and Labor Supply Effects of Replacing a Child Tax Credit with a Child Allowance [B4.1\_Meyer]**

Bruce D. Meyer, *University of Chicago*

Kevin Corinth*, University of Chicago*

Matthew Stadnicki*, University of Chicago*

Derek Wu*, University of Virginia*

**The Effects of the Child Tax Credit on Labor Supply [B4.2\_Lippold]**

Kye Lippold, *Department of Treasury*

**Unemployment Insurance in Survey and Administrative Data [B4.3\_Larrimore]**

Jeff Larrimore, *Federal Reserve Board of Governors*

Jacob Mortenson, *Joint Committee on Taxation*

David Splinter, *Joint Committee on Taxation*

**Putting the Paycheck Protection Program into Perspective: An Analysis Using Administrative and Survey Data [B4.4\_Dalton]**

Michael Dalton, *Bureau of Labor Statistics*

**Discussant: [B4.5\_Veuger]** Stan Veuger, *American Enterprise Institute*

**Session B-5. Information Quality Standards and Processes**

Organizer: Xuan Pham, *Risk Management Agency*

Chair: Carrie Jones*, Economic Research Service*

**Evolution of Methodology and Quality Measures Reports at USDA-NASS [B5.1\_Drunasky]**

Lindsay Drunasky, *National Agricultural Statistics Service*

**USDA ERS: Data Product Quality Standards and Processes [B5.2\_Ralston]**

Katherine Ralston, *Economic Research Service*

**Transparency and Data Quality [B5.3\_Gillman]**

Dan Gillman, *Bureau of Labor Statistics*

**Discussant**: Julie Parker*, Economic Research Service*

**Session B-6. Leveraging Probability Panels for Federally Sponsored Statistical Data Collections**

Organizer: David Dutwin, *NORC at the University of Chicago*

Chair: Edward Mulrow*, NORC at the University of Chicago*

**Transparency in Documentation for Statistical Surveys using a Probability Panel [B6.1\_Dennis]**

J. Michael Dennis, *NORC at the University of Chicago*

Jennifer Benz*, NORC at the University of Chicago*

Ed Mulrow*, NORC at the University of Chicago*

**Case Study in the Use of a Probability Panel for Federally Sponsored Research [B6.2\_Scanlon]**

Paul Scanlon, *National Center for Health Statistics*

**Strategies to Recruit and Represent Low Incidence Population Groups and Engender Sample Diversity in a Probability Panel [B6.3\_Dutwin]**

David Dutwin, *NORC at the University of Chicago*

Ipek Bilgen, *NORC at the University of Chicago*

**The Importance of Nonresponse Follow-up in Probability Panels [B6.4\_Bilgen]**

Ipek Bilgen, *NORC at the University of Chicago*

J. Michael Dennis, *NORC at the University of Chicago*

David Dutwin, *NORC at the University of Chicago*

Josh Lerner, *NORC at the University of Chicago*

**Concurrent Sessions C**

**Tuesday, October 25**

**3:15 – 5:00 pm**

**Session C-1. Methods for Refining and Supplementing Food Security Statistics and Importance to Policy Research**

Organizer: Alisha Coleman-Jensen, *Economic Research Service*

Chair: Jeffrey M. Gonzalez*, Bureau of Labor Statistics*

**Analysis of the September 2020 Current Population Survey Food Security Supplement Split Panel Test** [C1.1\_ColemanJensen]

Alisha Coleman-Jensen, *Economic Research Service*

Matthew P. Rabbitt*, Economic Research Service*

**Predicting “Real-Time” Food Hardship with Retail Food Spending: A New Approach Linking Scanner Data and the Census Household Pulse Survey** [C1.2\_Fitzpatrick]

Katie Fitzpatrick, *University of Delaware*

Kejda Llana*, University of Delaware*

**Estimating Long-Run Trends in Food Security: A Structural Economic Approach**

Matthew P. Rabbitt, *Economic Research Service*

M. Taylor Rhodes, *Oregon State University*

**The Effect of Pandemic EBT on Measures of Food Hardship** [C1.4\_Bauer]

Lauren Bauer, *Brookings Institution*

Krista Ruffini, *Georgetown University*

Diane Whitmore Schanzenbach, *Northwestern University*

**Discussant:** [C1.5\_Vaudin] Anna Vaudin*, Food and Nutrition Service*

**Session C-2. Furthering Research through Data Linkages**

Organizer: Ann Miller, *Department of the Interior*

Chair: Ann Miller, *Department of the Interior*

**Internal Migration in the U.S. During the COVID-19 Pandemic** [C2.1\_Foster]

Thomas B. Foster, *U.S. Census Bureau*

Mark Ellis*, University of Washington*

Lee Fiorio*, University of Washington*

**Race, Class, and Mobility in U. S. Marriage Markets** [C2.2\_Walker]

Caroline Walker, *U.S. Census Bureau*

Ariel Binder*, U.S. Census Bureau*

Marta Murray-Close*, U.S. Census Bureau*

Jonathan Eggleston*, U.S. Census Bureau*

**Who gets married and who breaks up? Tracking Relationship Transitions After the Introduction of Legal Same-Sex Marriage in the U.S. Using Linked Survey and Administrative Data** [C2.3\_Murry-Close]

Marta Murray-Close, *U.S. Census Bureau*

Brian Knop, *U.S. Census Bureau*

**The Impact of Manufacturing Credentials on Earnings and the Probability of Employment** [C2.4\_Jones]

Maggie R. Jones, *U.S. Census Bureau*

Vanessa Brown, *National Student Clearinghouse*

Gardner Carrick, *National Association of Manufacturers*

Nikolas Pharris-Ciurej, *U.S. Census Bureau*

John Voorheis, *U.S. Census Bureau*

Caroline Walker, *U.S. Census Bureau*

**Discussants**: Brian Knop, *U.S. Census Bureau* and Michaela Dillon, *U.S. Census Bureau*

**Session C-3. Advances in Small Area Estimation**

Organizer: Yang Cheng, *National Agricultural Statistics Service*

Chair: Yang Cheng, *National Agricultural Statistics Service*

**A Model-based Allocation Approach for Estimation of Adult Competency in Small Domains [C3.1\_Erciulescu]**

Andreea Erciulescu, *Westat*

Weijia Ren*, Westat*

Jianzhu Li*, Westat*

Tom Krenzke*, Westat*

Leyla Mohadjer, *Westat*

Robert Fay*, Westat*

**An Interactive Data Tool to Explore State and County Model-based Estimates of Adult Literacy and Numeracy Skills [C3.2\_Krenzke]**

Tom Krenzke, *Westat*

Weijia Ren*, Westat*

Andreea Erciulescu*, Westat*

Leyla Mohadjer*, Westat*

**Model-based Estimates for Farm Labor Quantities [C3.3\_Chen]**

Lu Chen, *National Agricultural Statistics Service*

Nathan B. Cruze, *NASA Langley Research Center*

Linda J. Young, *National Agricultural Statistics Service*

**Small Area Beverage Price Indexes [C3.4\_Okrent]**

Abigail Okrent, *USDA*

Chen Zhen, *University of Georgia*

Lan Mu, *University of Georgia*

Gauri Datta, *University of Georgia*

**Developing a Data-Driven System for Identifying Vulnerable and Resilient Neighborhoods across the United States: Opportunities for Improvement through Small Area Estimation  [C3.5\_Willyard]**

Katherine Ann Willyard, *U.S. Census Bureau*

Gabriel Amaro, *U.S. Census Bureau*

**Session C-4. Strengthening the Autonomy of the Federal Statistical Agencies**

Organizer: Steve Pierson*, American Statistical Association*

Chair: Edward Wu*, American Statistical Association*

**Panelists:**

Constance Citro*,* **[C4.1\_Citro]***Committee on National Statistics*

Ron Jarmin, **[C4.2\_Jarmin]** *U.S. Census Bureau*

Nancy Potok **[C4.3\_Potok]***, NAPx Consulting*

**Discussant**: **[C4.4\_Auerbach]** Jonathan Auerbach, *George Mason University*

Session C-5. Advancements in Sexual Orientation and Gender Identity Measurement

Organizer: Jennifer Ortman, *U.S. Census Bureau*

Chair: Jennifer Ortman, *U.S. Census Bureau*

**Results of a Mixed-Method Study to Evaluate 2-Step Gender Identity Measures [C5.1\_Ryan]**

Valerie Ryan, *National Center for Health Statistics*

Kristen Miller, *National Center for Health Statistics*

Stephanie Willson, *National Center for Health Statistics*

**Asking Questions About Sexual Orientation and Gender Identity on the Experimental Household Pulse Survey: Evidence from Initial Evaluations [C5.2\_File]**

Thom File, *U.S. Census Bureau*

Zachary Scherer, *U.S. Census Bureau*

**How do you Describe Yourself in the Workplace? Asking Teachers about their Sexual Orientation and Gender Identity in a School Survey [C5.3\_Spiegelman]**

Maura Spiegelman, *National Center for Education Statistics*

Allison Zotti, *U.S. Census Bureau*

Shawna Cox, *U.S. Census Bureau*

**Assessing Open-Ended Self-Reports of Sexual Orientation and Gender Identity: Is There Room For Improvement? [C5.4\_Richards]**

David Richards, *National Center for Education Statistics*

Elise Christopher, *National Center for Education Statistics*

Maura Spiegelman, *National Center for Education Statistics*

**Session C-6. Lifting the Fog: Editing and Imputation**

Organizer: Tiandong Li, *Housing and Urban Development*

Chair: Tiandong Li, *Housing and Urban Development*

**Banff and Simputation: A Comparison Using BEA’s Multinational Enterprise Surveys [C6.1\_Terrie]**

Larkin Terrie, *Bureau of Economic Analysis*

**Imputing Missing Ferry Boarding Counts for Estimating National Totals [C6.2\_Kweon]**

Young-Jun Kweon, *Bureau of Transportation Statistics*

Aubrey Nguyen*, Bureau of Transportation Statistics*

Clara Reschovsky*, Bureau of Transportation Statistics*

**Automating the Data Edit Process for the National Census of Ferry Operators [C6.3\_Nguyen]**

Aubrey Nguyen, *Bureau of Transportation Statistics*

Young-Jun Kweon, *Bureau of Transportation Statistics*

Clara Reschovsky, *Bureau of Transportation Statistics*

**The Effects of Editing and Imputation on Measured Plant-level and Aggregate Productivity Growth in a Panel of U.S. Manufacturing Plants [C6.4\_White]**

Kirk White, *U.S. Census Bureau*

Hang Kim, *University of Cincinnati*

Martin Rotemberg, *New York University*

**Scrubbed Clean: Does Data Cleaning Improve the Quality of Analytic Models? [C6.5\_Hendrich]**

Megan A. Hendrich, *Ipsos Public Affairs*

Randall K. Thomas, *Ipsos Public Affairs*

Frances M. Barlas*, Ipsos Public Affairs*

**Plenary Session II**

**Wednesday, October 26**

Organizer: Linda J. Young, National Agricultural Statistics Service

**Building Representative Miniatures out of Non-representative Big Data: An Interplay of Data Quantity, Quality, and Privacy [P2\_Meng]**

Xiao-Li Meng, *Harvard University*

**Xiao-Li Meng** is the Whipple V. N. Jones Professor of Statistics at Harvard University and the Founding Editor-in-Chief of Harvard Data Science Review. Meng was named the best statistician under the age of 40 by Committee of Presidents of Statistical Societies (COPSS) in 2001, and he is the recipient of numerous awards and honors for his more than 150 publications in at least a dozen theoretical and methodological areas, as well as in areas of pedagogy and professional development. In 2020, he was elected to the American Academy of Arts and Sciences. Meng received his BS in mathematics from Fudan University in 1982 and his PhD in statistics from Harvard in 1990. He was on the faculty of the University of Chicago from 1991 to 2001 before returning to Harvard, where he served as the Chair of the Department of Statistics (2004–2012) and the Dean of Graduate School of Arts and Sciences (2012–2017). Dr. Meng’s talk is entitled, “Building Representative Miniatures out of Non-representative Big Data: An Interplay of Data Quantity, Quality, and Privacy”.

**Concurrent Sessions D**

**Wednesday, October 26**

**10:00 – 11:45 am**

**Session D-1. Advancing Efficiency and Accuracy with Data Science Techniques**

Organizer: Ellen Galantucci, *Federal Maritime Commission*

Chair: Ellen Galantucci, *Federal Maritime Commission*

**Improving Efficiency in Non-Data-Collection Activities with Data Science Tools: The Case of Census's Count Question Resolution Operation [D1.1\_Chung]**

Nelson Chung, *U.S. Census Bureau*

**Toward a Semi-automated Item Nonresponse Detector Model for Open-response Data [D1.2\_Cibelli]**

Kristen Cibelli Hibben, *National Center for Health Statistics*

Zachary Smith*, National Center for Health Statistics*

Travis Hoppe*, National Center for Health Statistics*

Valerie Ryan*, National Center for Health Statistics*

Ben Rogers*, National Center for Health Statistics*

Paul Scanlon*, National Center for Health Statistics*

Kristen Miller*, National Center for Health Statistics*

**“Why do you say that?” A Case Study in Applying Topic Modeling to Analyze Open-ended Survey Probes [D1.3\_Rogers]**

Benjamin Rogers, *National Center for Health Statistics*

Valerie Ryan, *National Center for Health Statistics*

Kristen Cibelli Hibben, *National Center for Health Statistics*

**Using Language Models to Extract Data from Unstructured Text [D1.4\_Kattampallil]**

Thomas Neil Kattampallil, *University of Virginia*

Aritra Halder, *University of Virginia*

Stephanie Shipp, *University of Virginia*

Gary Anderson, *National Center for Science and Engineering Statistics*

John Jankowski, *National Center for Science and Engineering Statistics*

**Leveraging Natural Language Processing for Efficiencies without Increasing Nonresponse Bias [D1.5\_Grady]**

Sarah Grady, *Energy Information Administration*

Francisco Cifuentes, *Energy Information Administration*

S. Grace Deng*, Energy Information Administration*

Katie Lewis*, Energy Information Administration*

**Session D-2. Dying for Better Data: Using Administrative Records to Improve the Quality and Utility of Health Survey Data**

Organizer: Scott Boggess, *U.S. Census Bureau*

Chair: Scott Boggess, *U.S. Census Bureau*

**Assessing Data Quality in Population-Based Surveys Linked to End-Stage Renal Disease Administrative Data [D2.1\_Aram]**

Jonathan Aram, *National Center for Health Statistics*

Crescent B. Martin*, National Center for Health Statistics*

Lisa B. Mirel*, National Center for Health Statistics*

**Linking the Medical Expenditure Panel Survey-Insurance Component to Administrative Records: A New Approach to Inferring Establishment Links [D2.2\_Hegland]**

Thomas Hegland, *Agency for Healthcare Research and Quality*

Ed Miller*, Agency for Healthcare Research and Quality*

Alice Zawacki*, U.S. Census Bureau*

**Race and Ethnicity Modeling Applied to Linked Health Data [D2.3\_Mirel]**

Lisa B. Mirel, *National Center for Health Statistics*

Jessie L. Parker, *National Center for Health Statistics*

Dean Resnick, *NORC at the University of Chicago*

Christine Cox, *NORC at the University of Chicago*

**Developing a Physician-Employer Linked Dataset [D2.4\_Linders]**

Dennis Linders, *U.S. Census Bureau*

Victoria Udalova, *U.S. Census Bureau*

Alice Zawacki, *U.S. Census Bureau*

Kate Vavra-Musser, *University of Southern California*

**Discussant:** Paul Beatty, *U.S. Census Bureau*

**Session D-3. Evaluation of EEOC Collection of Pay Data: Quality for Intended Use and Recommendations for the Future [D3\_ParkRodgersHellerstein]**

Organizer: Jennifer Park, *Committee on National Statistics*

Chair: William Rodgers III*, Federal Reserve Bank of St. Louis*

**Evaluation of Pay Data in EEO-1 Component 2**

Claudia Goldin, *Harvard University*

Siwei Chang*, New York University*

**Measures of Sex, Race/Ethnicity, and other Protected Groups in EEO-1 Component 2**

Lee Badgett, *University of Massachusetts, Amherst*

Valerie Wilson*, EPI*

**Use of EEO-1 Component 2 Data for Initial EEOC Investigations**

Elizabeth Hirsh, *University of British Columbia*

Kristen Olson, *University of Nebraska*

Don Tomaskovic-Devey, *University of Massachusetts, Amherst*

**Use of EEO-1 Component 2 Data for Employer Self-Assessment and National Comparisons**

Judy Hellerstein, *University of Maryland*

Lisette Garcia, *Pennsylvania State*

**Discussant:** Meghan Maury, *White House Office of Science and Technology Policy*

**Session D-4. Statistical Issues in Research to Inform Evidence-based Nutrition Security Policymaking**

Organizer: Andrea C. Carlson, *Economic Research Service*

Chair: Elina T. Page*, Economic Research Service*

**Data Required to Inform Nutrition Security Policy [D4.1\_MeyersMathieu]**

Kevin Meyers Mathieu, *Food and Nutrition Service*

**Capturing Nutrition Information for Food Items Reported in FoodAPS-2: Survey Methodological Enhancements for Evidence-based Policymaking and Research [D4.2\_Kantor]**

Linda Kantor, *Economic Research Service*

**Statistical properties of the Purchase-to-Plate Crosswalk: A comparison of Healthy Eating Index scores across Federal surveys [D4.3\_Carlson]**

Andrea C Carlson, *Economic Research Service*

**Comparison of Purchase to Plate National Average Prices for NHANES to Other Federal Food Expenditure and Price Index Measures**

Christopher Lowe, *Economic Research Service*

**Discussant:** Sara Bleich, *Food and Nutrition Service*

**Session D-5. Reimagining NCES and the Education Data Ecosystem for the 21st Century**

Organizers: Melissa Chiu, *Committee on National Statistics*

Marie Marcum, *National Center for Education Statistics*

Chair: Melissa Chiu*, Committee on National Statistics*

**A Vision and Roadmap for Education Statistics: Overview of the CNSTAT Study [D5.1\_Ohara]**

Amy O’Hara, *Georgetown University*

Melissa Chiu*, Committee on National Statistics*

**Embracing a New Vision for Education Statistics [D5.2\_Carr]**

Peggy Carr, *National Center for Education Statistics*

**Private Sector Roles in the Future Education Data Ecosystem [D5.3\_Dinkes]**

Rachel Dinkes, *Knowledge Alliance*

**Discussant:** Anthony Nerino*, Office of Management and Budget*

**Session D-6. Evaluating Methods for Evaluating Questionnaires**

Organizer: Doug Williams, *Bureau of Labor Statistics*

Chair: Doug Williams, *Bureau of Labor Statistics*

**Understanding the Interviewer in Cognitive Interviewing: Reflexivity and Improving Data Quality [D6.1\_Smith]**

Zachary Smith, *National Center for Health Statistics*

**A Comparison of Questionnaire Evaluation Methods to Assess the Airborne Hazards and Open Burn Pit Registry [D6.2\_Steiger]**

Darby Steiger, *Westat*

April Fales*, Westat*

**Effects of and Reactions to Response Formats for Race and Ethnicity Measurement in the U.S. [D6.3\_Barlas]**

Frances M. Barlas, *Ipsos Public Affairs*

Kip Davis, *Ipsos Public Affairs*

Randall Thomas, *Ipsos Public Affairs*

Megan Hendrich, *Ipsos Public Affairs*

**Correlates of Item Nonresponse to Open-Ended Web Probes [D6.4\_Smith]**

Zachary Smith, *National Center for Health Statistics*

Kristen Cibelli Hibben*, National Center for Health Statistics*

Travis Hoppe*, National Center for Health Statistics*

Valerie Ryan*, National Center for Health Statistics*

Ben Rogers, *National Center for Health Statistics*

Paul Scanlon*, National Center for Health Statistics*

Kristen Miller*, National Center for Health Statistics*

**Facilitating Innovation in Survey Systems with Human-Centered Design [D6.5\_Fox]**

Jean E. Fox, *Bureau of Labor Statistics*

Scott Arden, *Bureau of Labor Statistics*

Tod Sirois*, Bureau of Labor Statistics*

**Concurrent Sessions E**

**Wednesday, October 26**

**1:15 – 3:00 pm**

**Session E-1. Statistical Modeling**

Organizer: Joe Conklin, *Bureau of Justice Statistics*

Chair: Joe Conklin, *Bureau of Justice Statistics*

**Applying a Model of Income Distribution, Adopted as Econophysics, to Estimating Non-Compliance with the Individual Federal Income Tax [E1.1\_Angle]**

John Angle ORCID, *Tresoria, LLC*

**A Bayesian Model of the Probabilistic Role of Weather Variations on Crop Yield Potential [E1.2\_Nava]**

Noé J Nava, *Economics Research Service*

**Methods and Assumptions of the CPS ASEC Tax Model and Imputing 2020 Stimulus Payments [E1.3\_Lin]**

Daniel Lin, *U.S. Census Bureau*

**Place-Based Tax Incentives and Minority Employment: Evidence from New Market Tax Credit (NMTC) Program [E1.4\_Rupasingha]**

Anil Rupasingha, *Economic Research Service*

Alexander Marre, *Federal Reserve Bank of Cleveland*

**Skill Profiles and Portability of Credentials for the Technical Workforce [E1.5\_Montalvo]**

Cesar Montalvo, *University of Virginia*

Haleigh Tomlin*, Washington and Lee University*

Leonel Siwe*, University of Virginia*

Vicki Lancaster*, University of Virginia*

**Discussant:** **[E1.6\_Erciulescu]** Andreea Erciulescu*, Westat*

**Session E-2. Mosaic Data Linkage**

Organizer: Xuan Pham, *Economic Research Service*

Chair: Jeffrey Gonzalez, *Bureau of Labor Statistics*

**Estimating Foreign-Born Emigration Using Longitudinal Tax and Social Security Data [E2.1\_Foster]**

Thomas B. Foster, *U.S. Census Bureau*

Anthony Knapp*, U.S. Census Bureau*

Erik Vickstrom*, U.S. Census Bureau*

**Mobility of U.S.-trained Early Career Research Scientists and Engineers**

Christina Freyman, *National Science Foundation*

Wan-Ying Chang*, National Science Foundation*

**Exploration of NAEP-SSOCS linkage: Investigating the Association between Behavioral Incidents, School Behavioral Climate, and NAEP Mathematics Achievement [E2.3\_Ikoma]**

Saki Ikoma, *American Institutes for Research*

Paul Bailey, *American Institutes for Research*

Jizhi Zhang, *American Institutes for Research*

Kelly Guinn, *ICF*

Markus Broer, *American Institutes for Research*

**Session E-3. Modernizing Bias Reduction Techniques**

Organizer: Richard Chard, *Office of Research, Evaluation, and Statistics*

Chair: Doug Williams, *Bureau of Labor Statistics*

**Seroprevalence of SARS-CoV-2 Antibodies: Representativeness of Nonprobability Serology Samples from Multiple Commercial Laboratories in the United States [E3.1\_Kim]**

Yun Kim, *ICF*

Ronaldo Iachan*, ICF*

Adam Lee*, ICF*

Lee Harding*, ICF*

Kristie Clarke, *CDC*

**Finding and Handling Bias in Clustered Randomized Trials [E3.2\_Chaney]**

Bradford Chaney, *National Academies of Sciences, Engineering, and Medicine*

**Analyzing Nonresponses for National Census of Ferry Operators [E3.3\_Kweon]**

Young-Jun Kweon, *Bureau of Transportation Statistics*

Aubrey Nguyen, *Bureau of Transportation Statistics*

Clara Reschovsky, *Bureau of Transportation Statistics*

**Session E-4. Topics in Income Volatility Measurement**

Organizer: Mark A Klee, *U.S. Census Bureau*

Chair: Rebecca Heller*, Congressional Budget Office*

**Reconciling Trends in Male Earnings Volatility: Evidence from the SIPP Survey and Administrative Data [E4.1\_Carr]**

Michael Carr, *University of Massachusetts, Boston*

Robert Moffitt*, Johns Hopkins University*

Emily Wiemers*, Syracuse University*

**Projecting Monthly Poverty Rates in the United States: New Estimates from the Survey of Income and Program Participation**

Lewis Warren, *U.S. Census Bureau*

Ani Silwal*, U.S. Census Bureau*

**A Stitch in Time: Evaluating Seam Bias in the Redesigned SIPP [E4.3\_Bennett]**

Neil Bennett, *U.S. Census Bureau*

Mark A Klee, *U.S. Census Bureau*

Robert Munk, *U.S. Census Bureau*

**Discussant:** Charles Hokayem*, U.S. Census Bureau*

**Session E-5. Implementing Title III of the Evidence Act: A Framework to Expanding Data Access for Evidence Building**

Organizer: John Finamore, *National Center for Science and Engineering Statistics*

**ICSP’s Vision for Implementing Title III of the Evidence Act [E5.1\_Rivers]**

Emilda Rivers, *National Center for Science and Engineering Statistics*

**The Trust Regulation: Documenting the Fundamental Responsibilities of Recognized Statistical Agencies or Units [E5.2\_Sivinski]**

Robert Sivinski, *Office of Management and Budget*

**The Access Regulation: Expanding Secure Access to CIPSEA Data Assets [E5.3\_Stefano]**

Spiro Stefano, *Economic Research Service*

**The Standard Application Process: Creating Uniformity in the Process for Requesting Access to Restricted Data [E5.4\_Marten]**

Alex Marten, *Environmental Protection Agency*

**Session E-6. Measuring Sex, Gender Identity, and Sexual Orientation: Findings of the National Academies**

Organizer: Tara Becker, *National Academies of Sciences, Engineering, and Medicine*

Chair: Katrina Stone*, National Academies of Sciences, Engineering, and Medicine*

**Guidelines for the Measurement of Sex and Gender [E6.1\_Bates]**

Nancy Bates, *U.S. Census Bureau (Retired)*

**Measuring Sexual Orientation Identity and Gender Identity: Findings from the National Academies [E6.2\_Baker]**

Kellan Baker, *Whitman-Walker Institute*

**Developing Measures of Intersex Status/Differences in Sex Development at the Population Level [E6.3\_Becker]**

Tara Becker, *National Academies of Sciences, Engineering, and Medicine*

Katharine Dalke, *Penn State University*

**Discussant**: Christina Dragon*, National Institutes of Health Sexual and Gender Minority Research Office*

**Concurrent Sessions F**

**Wednesday, October 26**

**3:15 – 5:00 pm**

**Session F-1. Applications of Statistical Methods in Economic Areas**

Organizer: Chris Moriarity, *National Center for Health Statistics*

Chair: Chris Moriarity, *National Center for Health Statistics*

**What Most Affects the Probability of Receiving Public Assistance? Examining the Effect of Family Background and Educational Attainment on Receiving Public Assistance with Multivariate Regression Analysis [F1.1\_Vargas]**

Patricia I. Vargas, *U.S. Department of State*

**Alternative Data and Hedonic Price Indexes in the U.S. Consumer Price Index: A Review of Recent Research [F1.2\_Brown]**

Craig Brown, *Bureau of Labor Statistics*

Jeremy Smucker*, Bureau of Labor Statistics*

**Skilled Technical Workforce Classification [F1.3\_Siwe]**

Guy Leonel Siwe, *University of Virginia*

Cesar Montalvo, *University of Virginia*

Vicki Lancaster, *University of Virginia*

Haleigh Tomlin, *University of Virginia*

**United States Inflation Experience across the Income Distribution [F1.4\_Klick]**

Joshua Klick, *Bureau of Labor Statistics*

Anya Stockburger, *Bureau of Labor Statistics*

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**Session F-2. Innovations from the Criminal Justice Administrative Records System (CJARS) Project**

Organizer: Keith Finlay, *U.S. Census Bureau*

Chair: **[F2.0\_Finlay]** Keith Finlay*, U.S. Census Bureau*

**Hierarchical Approaches to Text-based Offense Classification [F2.1\_Muller-Smith]**

Michael Mueller-Smith, *University of Michigan*

Jay Choi*, University of Michigan*

David Kilmer*, Measures for Justice*

Sema A. Taheri*, Measures for Justice*

**CJARS Data Quality Automation [F2.2\_Miller]**

Brian Miller, *University of Michigan*

**Measuring Intergenerational Exposure to the U.S. Justice System: Evidence from Longitudinal Links between Survey and Administrative Data [F2.3\_Street]**

Brittany Street, *University of Missouri*

Keith Finlay, *U.S. Census Bureau*

Michael Mueller-Smith, *University of Michigan*

**Discussant:** Anne Morrison Piehl*, Rutgers University*

**Session F-3. Drawing Optimal Statistical Inferences from Nonprobability or Low Response-rate Probability Surveys: Some Recent Advances and Applications**

Organizer: Yulei He, *National Center for Health Statistics*

Chair: Yulei He*, National Center for Health Statistics*

**Variable Inclusion Strategies for Adjusting the Weights of Surveys Subject to Selection Bias [F3.1\_Irimata]**

Katherine Irimata, *National Center for Health Statistics*

Yan Li*, University of Maryland*

Yulei He*, National Center for Health Statistics*

Jennifer D. Parker*, National Center for Health Statistics*

**Generating Survey Weights Using a Machine-learning Method and the Entropy Balancing Calibration Technique [F3.2\_Kang]**

Joseph Kang, *U.S. Census Bureau*

**Methods for Combining Probability and Nonprobability Samples Under Unknown Overlaps [F3.3\_Savitsky]**

Terrance D. Savitsky, *Bureau of Labor Statistics*

Matthew R. Williams, *RTI International*

Julie Gershunskaya, *Bureau of Labor Statistics*

Vladislav Beresovsky, *National Center for Health Statistics*

Nels G. Johnson, *U.S. Department of Agriculture*

**New Measures for Assessing Non-ignorable Selection Bias in Non-probability Samples and Low Response Rate Probability Samples [F3Andridge]**

Rebecca Andridge, *Ohio State University*

Brady T. West, *University of Michigan*

**Discussant:** **[F3.5\_Kott]** Phillip S. Kott*, RTI International*

**Session F-4. The Need for a National Study of Post-Secondary Faculty**

Organizer: Hans-Joerg Tiede, *American Association of University Professors*

Chair: Felice Levine*, American Education Research Association*

**Defining, Counting and Understanding Faculty in the United States: Strengths and Limitations of Current Higher Education Data [F4.1\_Arbeit]**

Caren Arbeit, *RTI*

KC Culver*, University of Southern California*

**Data: The Foundation of Efforts to Advance Equity and Diversity among our Nation’s Faculty [F4.2\_Perna]**

Laura Perna, *University of Pennsylvania*

**The Importance and Value of Discipline-Level Data [F4.3\_Townsend]**

Robert Townsend, *American Academy of Arts and Sciences*

**NSOPF Institution-Level Data on Personnel Policies and Practices [F4.4\_Tiede]**

Hans-Joerg Tiede, *American Association of University Professors*

**Discussant:** Valerie Martin Conley, *Idaho State University*

**Session F-5. Classifying Settlement Form and Function: Urban, Rural, Metropolitan and Micropolitan Area Definitions and Classifications**

Organizer: Michael Ratcliffe, *U.S. Census Bureau*

Chair: Michael Ratcliffe, *U.S. Census Bureau*

**The Census Bureau's Urban and Rural Classification and Overview of 2020 Census Urban Area Criteria [F5.1\_Ratcliffe]**

Michael Ratcliffe, *U.S. Census Bureau*

**The 2020 Standards for Delineating Core Based Statistical Areas [F5.2\_Mackun]**

Paul Mackun, *U.S. Census Bureau*

**Understanding Rural Definitions [F5.3\_Cromartie]**

John Cromartie, *Economic Research Service*

**The Effects of Geography on Data Quality**

Rolf R. Schmitt, *Bureau of Transportation Statistics*

Ed Strocko, *Bureau of Transportation Statistics*

**Session F-6. Reporting on the Pulse of America – Rapid Data and Collection and Information Sharing Initiatives in the Federal Government**

Organizer: Chris Chapman, *National Center for Education Statistics*

Chair: Stephen Blumberg*, National Center for Health Statistics*

**Household Pulse Survey. Foundation For a Rapid Response, High-Frequency Household Data System [F6.1\_Fields]**

Jason Fields, *U.S. Census Bureau*

Jennifer Hunter Childs*, U.S. Census Bureau*

Cassandra Logan*, U.S. Census Bureau*

**School Pulse Panel and Development of a Rapid Response Data Collection System for Establishment Studies - Design, Challenges, and Accomplishments [F6.2\_Hansen]**

Rachel Hansen, *National Center for Education Statistics*

Ryan Iaconelli*, National Center for Education Statistics*

Rebecca Bielamowicz*, National Center for Education Statistics*

**Leveraging Commercial Online Survey Panels for Timely and Actionable Health Statistics [F6.3\_Blumberg]**

Stephen Blumberg, *National Center for Health Statistics*

Jennifer Parker, *National Center for Health Statistics*

Paul Scanlon, *National Center for Health Statistics*

Jonaki Bose, *National Center for Health Statistics*

Amy Brown, *National Center for Health Statistics*

**Discussant:** [F6.4\_Sivinski] Robert Sivinski*, Office of Management and Budget*

**Concurrent Sessions G**

**Thursday, October 27**

**8:30 – 10:15 am**

**Session G-1. Insights from the Congressional Watchdog on Equity in Evaluation Design**

Organizer: Sirin Yaemsiri, *Government Accountability Office*

**Chair**: **[G1.0\_Smith]** Jared Smith*, Government Accountability Office*

**Geospatial Analysis and Regression Modeling to Assess Social and Demographic Disparities in Locations of Lead Water Pipes and Pavement Conditions of the National Highway System [G1.1\_Vartavarian]**

Sonya Vartivarian, *Government Accountability Office*

Mark Braza*, Government Accountability Office*

Caitlin Cusati*, Government Accountability Office*

Diane Raynes*, Government Accountability Office*

**Assessing Disparities in FEMA Flood Map Investments using Multivariate Analysis [G1.2\_Guo]**

Lijia Guo, *Government Accountability Office*

Joel Aldape*, Government Accountability Office*

Mark Braza*, Government Accountability Office*

John Vocino*, Government Accountability Office*

**Survival Analysis Modeling of Promotions in the State Department’s Workforce [G1.3\_Parks]**

Moon Parks, *Government Accountability Office*

Nisha Rai, *Government Accountability Office*

Melinda Cordero, *Government Accountability Office*

**Imputing Race and Ethnicity in Federal Administrative Data: Two Applications of Bayesian Improved Surname Geocoding (BISG) [G1.4\_Tessin]**

Jeff Tessin, *Government Accountability Office*

**Discussant:** **[G1.5\_Tirado]** Frances Tirado*, Government Accountability Office*

**Session G-2. Highlights of CNSTAT Report on Transparency in Statistical Information**

Organizer: Michael L. Cohen, *Committee on National Statistics*

Chair: Dan Kasprzyk*, NORC at the University of Chicago*

**Transparency of Official Statistics: Part of the Recent Emphasis on Reproducibility of Scientific Activities [G2.1\_Nusser V2]**

Sarah Nusser, *Iowa State University*

**The Use of Modern Software Development Tools for Documentation of Methods Used [G2.2\_Vilhuber]**

Lars Vilhuber, *Cornell University*

**The Use of Metadata Standards and Tools for Greater Transparency of Official Statistics [G2.3\_Gillman]**

Dan Gillman, *Bureau of Labor Statistics*

**Discussant:** Emilda Rivers*, National Center for Science and Engineering Statistics*

**Session G-3. Using Spatial Data to Inform Official Statistics**

Organizer: Denise A. Abreu, *National Agricultural Statistics Service*

Chair: Matthew Deaton*, National Agricultural Statistics Service*

**Bayesian Nonparametric Multivariate Spatial Mixture Mixed Effects Models with Application to American Community Survey Special Tabulations [G3.1\_Holan]**

Scott Holan, *University of Missouri; U.S. Census Bureau*

Ryan Janicki*, U.S. Census Bureau*

Andrew M. Raim*, U.S. Census Bureau*

Jerry Maples*, U.S. Census Bureau*

**Model-based Estimation of the Number of U.S. Farms and Land in Farms from Survey, Spatial and Administrative Data [G3.2\_Benecha]**

Habtamu Benecha, *National Agricultural Statistics Service*

Tara Murphy*, National Agricultural Statistics Service*

Grace Yoon*, National Agricultural Statistics Service*

Arthur Rosales*, National Agricultural Statistics Service*

Luca Sartore*, National Agricultural Statistics Service*

Denise A. Abreu*, National Agricultural Statistics Service*

**Bayesian Spatial Hierarchical Models for Differentially Private Measurements of Census Tabulations [G3.3\_Janicki]**

Ryan Janicki, *U.S. Census Bureau*

Andrew Raim, *U.S. Census Bureau*

Scott Holan, *University of Missouri; U.S. Census Bureau*

Kyle Irimata, *U.S. Census Bureau*

James Livsey, *U.S. Census Bureau*

**Session G-4. Connecting the Dots: Leveraging Extant Data for Research**

Organizer: Maura Spiegelman, *National Center for Education Statistics*

Chair: Elise Christopher, *National Center for Education Statistics*

**Creating the 21st Century Census Curated Data Enterprise (CDE) – Establishing Criteria for Choosing Case Studies to Develop the CDE**

Stephanie S. Shipp, *University of Virginia*

Joseph Salvo*, University of Virginia*

**Enhancing Race and Ethnicity Information in Medicaid Data: The Role of Census Bureau Data**

Aubrey Limburg*, U.S. Census Bureau*

Victoria Udalova, *U.S. Census Bureau*

Adam Kurczewski*, U.S. Census Bureau*

**Address Frame Enhancement with Administrative Data using an Interactive Mapping Dashboard**

Lee Fiorio, *NORC at the University of Chicago*

Ned English, *NORC at the University of Chicago*

Chang Zhao, *NORC at the University of Chicago*

Peter Herman, *NORC at the University of Chicago*

**Building the Social Impact Data Commons: Data Discovery and Acquisition Lessons Learned**

Joanna Schroeder, *University of Virginia*

Kathryn Linehan, *University of Virginia*

Micah Iserman, *University of Virginia*

Joel Thurston, *University of Virginia*

Cesar Monatlavo, *University of Virginia*

Vicki Lancaster, *University of Virginia*

Hanna Charankevich, *University of Virginia*

Neil Kattampallil, *University of Virginia*

Leonel Siwe, *University of Virginia*

Stephanie Shipp, *University of Virginia*

Aaron Schroeder, *University of Virginia*

Sallie Keller, *University of Virginia*

**Finding Alternative Data: VIIRS Nightfire Oil and Gas Well Flare Data Evaluation**

Jeramiah Yeksavich, *Energy Information Administration*

Nathan Agbemenyale, *Energy information Administration*

Caitlin Steiner*, Energy information Administration*

Michael Winkler*, Energy information Administration*

**Session G-5. Building a Sampling System for the Annual Integrated Economic Survey**

Organizer: Laura Bechtel, *U.S. Census Bureau*

Chair: Thomas Kirk White*, U.S. Census Bureau*

**Developing the Sample Design for the New Annual Integrated Economic Survey [G5.1\_Thompson]**

Katherine Jenny Thompson, *U.S. Census Bureau*

**Developing a Sampling Frame for the Annual Integrated Economic Survey (AIES) in the Economic Directorate of the U.S. Census Bureau [G5.2\_Smith]**

Justin Z. Smith, *U.S. Census Bureau*

Adam Smeltz*, U.S. Census Bureau*

James Burton*, U.S. Census Bureau*

**Winsorizing Low Inclusion Probabilities from an Unequal Probability Sample in a Multi-Purpose Annual Survey [G5.3\_Czaplicki]**

Nicole Czaplicki, *U.S. Census Bureau*

Yeng Xiong, *U.S. Census Bureau*

**Discussants:** **[G5.4\_Marker]** David Marker*, Marker Consulting, LLC*; Ron Jarmin, *U.S. Census Bureau*

**Concurrent Sessions H**

**Thursday, October 27**

**10:30- 12:15 am**

**Session H-1. Data Science Improving Statistical Products at the National Center for Education Statistics**

Organizer: Chris Chapman, *National Center for Education Statistics*

Chair: Peggy Carr*, National Center for Education Statistics*

**How to Improve Agency Data Visualization Strategies [H1.1\_Delarosa]**

Josue DeLaRosa, *National Center for Education Statistics*

**Using Geospatial Mapping Techniques and Data Modeling to Build Better Information [H1.2\_Geverdt]**

Douglas Geverdt, *National Center for Education Statistics*

**Mining Paradata to Improve Understanding of Test Taking [H1.3\_Sikali]**

Emmanuel Sikali, *National Center for Education Statistics*

**Web Scraping to Improve Establishment Employee Surveys - the Case of the National Teacher and Principal Survey [H1.4\_Avenilla]**

Louis Avenilla, *U.S. Census Bureau*

**Session H-2. Responsible Creation, Handling, and Use of Sexual Orientation and Gender Identity Data**

Organizer: Robert Sivinski, *Office of Management and Budget*

Chair: Hubert Hamer*, National Agricultural Statistics Service*

**SOGI Data Collection Principles and Examples [H2.1\_Sivinksi]**

Robert Sivinski, *Office of Management and Budget*

**Measuring Sex and Gender Identity in Department of Education Information Collections [H2.2\_Simpson]**

JB Simpson, *Department of Education*

**The Impact of Sexual Orientation and Gender Identity and Disability Questions on Response Rates [H2.3\_Young]**

Linda J Young, *National Agricultural Statistics Service*

Barbara Rater, *National Agricultural Statistics Service*

**Development of an X Gender Marker Definition for the U.S. Passport: Methodology and Implications for Asking about Gender [H2.4\_Miller]**

Kristin Miller, *National Center for Health Statistics*

**Session H-3. Practical Applications of Web-Scraping**

Organizer: Tyler Wilson, *National Agricultural Statistics Service*

Chair: Tyler Wilson*, National Agricultural Statistics Service*

**Comparing Web Scraped Establishment Survey Frames of Industrial Hemp Growers in Seven States: Costs, Contact Data, and Accuracy of Frame [H3.1\_Garber]**

Samuel Chad Garber*, National Agricultural Statistics Service*

Mike Gerling, *National Agricultural Statistics Service*

Katherine Vande Pol, *National Agricultural Statistics Service*

Tyler Wilson*, National Agricultural Statistics Service*

**Social Media as an Early Data Source for Emerging Substance Use Trends [H3.2\_Preiss]**

Alexander Preiss, *RTI International*

Mark Edlund*, RTI International*

Peter Baumgartner*, Explosion AI, GmbH*

Georgiy Bobashev*, RTI International*

**Web Scraping to Collected U.S. School District Level COVID-19 Mask Mandate Information for Contextualizing Results from the National Assessment of Educational Progress [H3.3\_Cramer]**

Brian Cramer, *National Center for Education Statistics*

Sadaf Asrar, *Optimal Solutions Group*

**Web Scraping in Support of the U.S. Census Bureau's Public Sector Programs [H3.4\_Ferronato]**

Hector Ferronato, *U.S. Census Bureau & Reveal GC*

Brian Dumbacher, *U.S. Census Bureau*

**Discussant**: **[H3.5\_Gerling]** Mike Gerling*, National Agricultural Statistics Service*

**Session H-4. If You Can't Beat Them, Join Them: Leveraging Administrative Data to Evaluate Survey Responses and Enhance the Value of Survey Data**

Organizer: Scott Boggess, *U.S. Census Bureau*

Chair: Scott Boggess, *U.S. Census Bureau*

**SNAP Receipt in the SIPP: Using Administrative Records to Evaluate Data Quality [H4.1\_Giefer]**

Michael D. King*, U.S. Census Bureau*

Katherine G. Giefer, *U.S. Census Bureau*

Veronica L. Roth*, U.S. Census Bureau*

**Household Indebtedness According to the Spanish Survey of Household Finances and the Central Credit Register: A Comparative Analysis [H4.2\_Crespo]**

Sandra García-Uribe, *Banco de España*

Laura Crespo*, Banco de España*

Olympia Bover*, Banco de España*

**Concordance Between Self-Report of Medicaid Enrollment in the National Health Interview Survey and Medicaid Administrative Records [H4.3\_Parker]**

Jessie L Parker, *National Center for Health Statistics*

Crescent B Martin, *National Center for Health Statistics*

**Building Scientific Publication Profiles for U.S. Trained Doctorate Recipients [H4.4\_Wei]**

Haoyi Wei, *National Center for Science and Engineering Statistics*

Eric Livingston, *Elsevier*

Christina Freyman, *National Science Foundation*

Wan-Ying Chang, *National Center for Science and Engineering Statistics*

Discussant: Katie Genadek, *U.S. Census Bureau*

**Session H-5. Web Survey Design Standards for the Enterprise Data Collection System at the U.S. Census Bureau**

Organizer: Elizabeth Nichols, *U.S. Census Bureau*

Chair: Lora Rosenberger*, U.S. Census Bureau*

**Data Ingest and Collection for the Enterprise**

Leslie Miller, *U.S. Census Bureau*

**Linear Navigation Guideline**

Elizabeth Nichols, *U.S. Census Bureau*

**Edit Validations**

Shelley Feuer, *U.S. Census Bureau*

**Web Survey Branding**

Jonathan Katz, *U.S. Census Bureau*

**Use of Progress Indicators**

Rachel Horwitz, *U.S. Census Bureau*

**Personalizing Questions**

Erica Olmsted-Hawala, *U.S. Census Bureau*

**Input Field Formatting**

Temika Holland, *U.S. Census Bureau*

**Discussant:** Jean Fox, *Bureau of Labor Statistics*

**Concurrent Sessions I**

**Thursday, October 27**

**1:30 – 3:15 pm**

**Session I-1. Foreign-Born Scientists and Engineers and the U.S. Workforce Evidence Building**

Organizer: Michael Atkinson, *America's Datahub Consortium*

Chair: John Finamore*, National Center for Science and Engineering Statistics*

**Foreign-Born Scientists and Engineers and the U.S. Workforce Evidence Building Overall Effort and Goals**

John Finamore, *National Center for Science and Engineering Statistics*

**A Network Scale-Up and Ad-Tech Approach Examining Workforce Participation and International Mobility in the FBSE Population**

Ian McCulloh, *Accenture Federal Services LLC*

**Foreign-Born Scientists and Engineers and the US Workforce**

Anand Desai, *Clarivate*

**Creating a New Data Infrastructure for Foreign-Born Scientist and Engineers: Data, Analysis and Use**

Ahu Yildirmaz, *Coleridge Initiative*

**Building an Evidence-Based Foundation to Understand Foreign-Born Scientists and Engineers’ Participation in the US Workforce**

Brandon Sepulvado, *NORC at the University of Chicago*

**Foreign-Born Scientists and Engineers and the U.S. Workforce**

Caren Arbeit, *RTI International*

**Session I-2. A Marshall Plan for Reconstructing National Statistical Offices After Conflict: Practical Guidance from International Principles**

Organizer: Jennifer Park, *Committee on National Statistics*

Chair: Dominik A. Rozkrut*, Statistics Poland*

**Panelists:**

Wlodzimierz Okrasa, *Cardinal Stefan Wyszynski University in Warsaw*

Misha Belkindas, *Open Data Watch Consulting, IAOS President*

Ron Wasserstein, *American Statistical Association*

Discussant: Albert Kroese*, International Monetary Fund*

**Session I-4. Developing the Infrastructure to Build Data Infrastructure: The Decennial Census Digitization and Linkage Project**

Organizer: Katie Genadek, *U.S. Census Bureau*

Chair: Katie Genadek*, U.S. Census Bureau*

**Merging Newly Digitized Census Form Images with Previously Created Microdata**

John Sullivan, *U.S. Census Bureau*

Katie Genadek*, U.S. Census Bureau*

J. Trent Alexander*, University of Michigan*

Sohall Kamdar*, University of California, Berkley*

**Communication and Iterative Development of Training Data**

Kelsey Drotning, *U.S. Census Bureau*

Cecile Murray*, U.S. Census Bureau*

**Creating Comparable Geography Across Data files for Record Linkage**

David Bleckley, *University of Michigan*

J. Trent Alexander, *University of Michigan*

Katie Genadek, *U.S. Census Bureau*

**Big Data Processing and Storage using On Premise and Cloud Solutions**

Jonathan Morgan, *U.S. Census Bureau*

Katie Genadek, *U.S. Census Bureau*

Junied Sheik*, U.S. Census Bureau*

Discussant: David Johnson*, National Academy of Science*

**Session I-5. Innovations in Health Care Survey Data Collection**

Organizer: Stephanie Coffey, *U.S. Census Bureau*

Chair: Stephanie Coffey, *U.S. Census Bureau*

**Using Data from the National Health and Nutrition Examination Survey (NHANES) to Support Health Equity Research**

Denys Lau, *National Center for Health Statistics*

Cheryl Fryar*, National Center for Health Statistics*

Namanjeet Ahluwalia*, National Center for Health Statistics*

Matthew Kaufman*, National Center for Health Statistics*

Irma Arispe, *National Center for Health Statistics*

Ryne Paulose-Ram*, National Center for Health Statistics*

**“Second Chance” Respondents to the National Survey on Drug Use and Health: A Natural Reinterview Reliability Analysis [I5.2\_Frechtel]**

Peter Frechtel, *RTI International*

Lauren Klein Warren*, RTI International*

Adam Lee*, RTI International*

**Need Telephone Show Cards For Your In-Person Survey Due To A Pandemic-Induced Multimode Data Collection Shift? Path Study Lessons Learned 2020 to Present… [I5.3\_Dipko]**

Sarah Dipko, *Westat*

Victoria Castleman, *Westat*

**Zooming into the Future with CAVI: An Update [I5.4\_Arrue]**

Jesus Arrue, *Westat*

Darby Steiger, *Westat*

Lena Centeno, *Westat*

Cindy Good, *Westat*

**Concurrent Sessions J**

**Thursday, October 27**

**3:30 – 5:15 pm**

**Session J-1. Evolution of the U.S. Economic Census for 2022 – An Overview of Changes, Testing, and Innovations Employed to Support Continued Improvement**

Organizer: Michael Sprung, *U.S. Census Bureau*

Chair: Kimberly Moore*, U.S. Census Bureau*

**Assessing Stakeholder Data Needs [J1.1\_Sprung]**

Michael Sprung, *U.S. Census Bureau*

Meghan Harrison*, U.S. Census Bureau*

**Using Iterative Quick Turnaround Cognitive Interviewing to Integrate Quality Into the 2022 U.S. Economic Census [J1.2\_Stettler]**

Kristin Stettler*, U.S. Census Bureau*

Melissa Cidade, *U.S. Census Bureau*

**Implementing Interactive Classification Tools [J1.3\_Wiley]**

Emily Wiley, *U.S. Census Bureau*

Daniel Whitehead, *U.S. Census Bureau*

**Leveraging Respondent Input to Improve Program Outreach [J1.4\_Brady]**

Charles Brady, *U.S. Census Bureau*

**Discussant:** Brent Hueth, *Economic Research Service*

**Session J-5. Analyzing Respondent Behavior and Data Quality in Web Surveys**

Organizer: Jessica Holzberg, *U.S. Census Bureau*

Chair: Jessica Holzberg, *U.S. Census Bureau*

**Developing a Self-Administered Eldercare Module for the American Time Use Survey [J5.1\_Grotophorst]**

Zoe Grotophorst, *NORC at the University of Chicago*

Stephanie Denton*, Bureau of Labor Statistics*

Lisa Lee*, NORC at the University of Chicago*

Justine Bulgar-Medina*, NORC at the University of Chicago*

**Analyzing Survey Duration Time and Its Relationship to Data Quality for a Household Survey [J5.2\_Deng]**

S. Grace Deng, *Energy Information Administration*

L. Kaili Diamond*, Energy Information Administration*

**Itemization of Reported Expenditures from the CE’s Test of a Fully Self-Administered Diary [J5.3\_Jones v2]**

Graham Jones, *Bureau of Labor Statistics*

Nikki Graf, *Bureau of Labor Statistics*

Tucker Miller, *Bureau of Labor Statistics*

Wendy Carlton, *Bureau of Labor Statistics*

**It’s a Trap!: Use of Trap Questions and Data Quality [J5.4\_Muller]**

Mina Muller, *Ipsos Public Affairs*

Frances M. Barlas, *Ipsos Public Affairs*

Randall K. Thomas, *Ipsos Public Affairs*

Megan A. Hendrich, *Ipsos Public Affairs*

**Device Usage on the Internet Instrument of the American Community Survey [J5.5\_Mills]**

Gregory Mills, *U.S. Census Bureau*

Lindsay Longsine, *U.S. Census Bureau*

R. Chase Sawyer*, U.S. Census Bureau*