

— October 2019 —

## UPCOMING CNSTAT EVENTS

*We hope to see you there!!*

- ★ We hope you will join us for ***Data Linkage Day*** the afternoon of **October 18, 2019**, at the National Academy of Sciences Building, 2101 Constitution Ave., NW. The event will include the ***2019 Links Lecture***, which will be given by ***Bruce Meyer***. His topic is ***Linking Data to Improve Income Statistics***. The event, which is being held in conjunction with the October 17-18, 2019, CNSTAT meeting, will also include lightning presentations and poster sessions by statistical agency staff to share their innovations, applications, and results from linking administrative, survey, and other alternative data sources. Registration is [open](#) now.
- ★ CNSTAT will convene a Workshop on ***2020 Census Data Products***, scheduled for **December 11-12, 2019**, at the National Academy of Sciences Building, 2101 Constitution Ave., NW. The workshop is sponsored by the U.S. Census Bureau.

## PEOPLE *News*

We congratulate the following CNSTAT staff members for receiving ***2019 staff awards*** from the ***Division of Behavioral and Social Sciences and Education*** at a ceremony on October 1, 2019:

- ***Jillian Kaufman***, senior program assistant, for Achievement in a Support Role
- ***Rebecca Krone***, program coordinator, for Innovation
- The team that produced *A Roadmap to Reducing Child Poverty*, including CNSTAT senior scholar ***Connie Citro*** and senior program officer ***Chris Mackie***, for Impact.

## RECENTLY RELEASED REPORTS

(available as free PDFs)

***Using Models to Estimate Hog and Pig Inventories***, the proceedings of a workshop chaired by Eric Slud (University of Maryland and U.S. Census Bureau) and sponsored by the National Agricultural Statistics Agency (NASS), was released in published form on September 27, 2019. Free PDFs are available [here](#).

In 2014, NASS engaged the National Academies of Sciences, Engineering, and Medicine to convene a planning committee to organize a public workshop for an expert open discussion of their then-current livestock models. The models had worked well for some time. Unfortunately beginning in 2013, an epidemic that killed baby pigs broke out in the United States. The epidemic was not fully realized until 2014 and spread to many states. The result was a decline in hog inventories and pork production that was not predicted by the models. NASS delayed the workshop until 2019 while it worked to develop models that could help in times both of equilibrium and shock (disease or disaster), as well as alternative approaches to help detect the onset of a shock. The May 15, 2019, workshop was consistent with NASS's 2014 intention, but with a focus on a model that can help predict hog inventories over time, including during times of shock. This publication summarizes the presentations and discussions from the workshop.

***Monitoring Educational Equity***, the final report of a consensus committee chaired by Christopher Edley, Jr. (University of California, Berkeley) and sponsored by the U.S. Department of Education, Atlantic Philanthropies, Ford Foundation, Spencer Foundation, W.K. Kellogg Foundation, and W.T. Grant Foundation, was just released in final published form on September 30, 2019. Free PDFs are available [here](#).

Disparities in educational attainment among population groups have characterized the United States throughout its history. Education is sometimes characterized as the “great equalizer,” but to date, the country has not found ways to successfully address the adverse effects of socioeconomic circumstances, prejudice, and discrimination that suppress performance for some groups.

To ensure that the pursuit of equity encompasses both the goals to which the nation aspires for its children and the mechanisms to attain those goals, a revised set of equity indicators is needed. Measures of educational equity often fail to account for the impact of the circumstances in which students live on their academic engagement, academic progress, and educational attainment. Some of the contextual factors that bear on learning include food and housing insecurity, exposure to violence, unsafe neighborhoods, adverse childhood experiences, and exposure to environmental toxins. Consequently, it is difficult to identify when intervention is necessary and how it should function. A revised set of equity indicators should highlight disparities, provide a way to explore potential causes, and point toward possible improvements. *Monitoring Educational Equity* proposes a system of indicators of educational equity and presents recommendations for implementation. This report also serves as a framework to help policy makers better understand and combat inequity in the United States' education system. Disparities in educational opportunities reinforce, and often amplify, disparities in outcomes throughout people's lives. Thus, it is critical to ensure that all students receive comprehensive supports that level the playing field in order to improve the well-being of underrepresented individuals and the nation.

## RECENTLY RELEASED REPORTS AVAILABLE IN PRINTED FORM

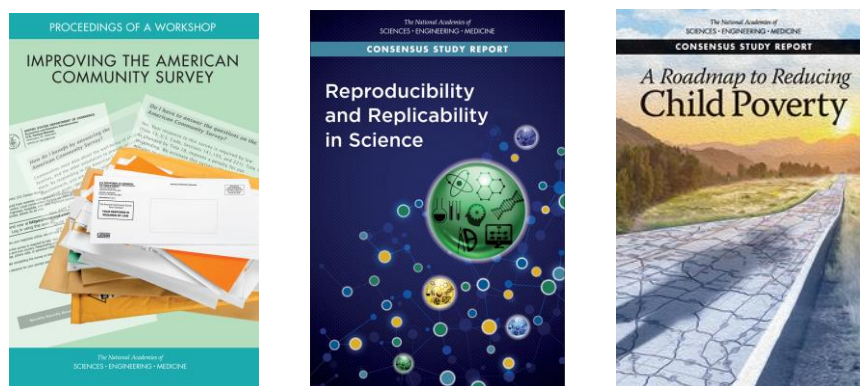
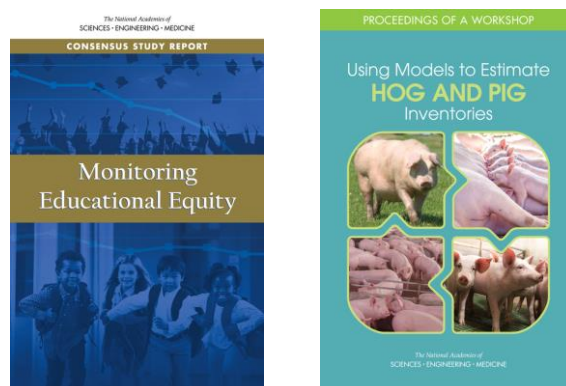
***Using Models to Estimate Hog and Pig Inventories***, released September 2019

***Monitoring Educational Equity***, released June 2019

[Improving the American Community Survey: Proceedings of a Workshop](#), released May 2019

[Reproducibility and Replicability in Science](#), released May 2019

[A Roadmap to Reducing Child Poverty](#), released February 2019



**Reminder:** PDF versions of CNSTAT and National Academies reports are available for free download at *The National Academies Press* website, <http://www.nap.edu>. The download site asks for your e-mail and a password. If you don't have an NAP account and don't want to have one, then provide your e-mail and click "I don't have an account;" on the next page click "accept NAP policies" and "log in as guest".

**Reminder:** Slides from previous CNSTAT public seminars are available on the CNSTAT [public seminars and symposia](#) page. Presentations and video from the June 6-7, 2019, workshop on *Challenges and New Approaches for Protecting Privacy in Federal Statistical Programs* are available [here](#). Presentations from the May 10, 2019, seminar *National Statistics for Public Policy: Linkages among Federal, State, and Local Data* are available [here](#). Presentations from the October 19, 2018, seminar *Leveraging and Integrating Data for Disasters* are available [here](#). Presentations and posters from the *Big Data Day* event on May 11, 2018, are available [here](#).

## EVENT & OTHER *News*

As noted on page 1 of this newsletter, please plan to join us for **Data Linkage Day** and the **2019 Links Lecture**. Also save the date for the upcoming Workshop on **2020 Census Data Products**.

We call your attention to the **28th Annual Morris Hansen Lecture**, which will be given by **Malay Ghosh** on Wednesday October 30, 2019 at 3:30 pm with a reception to follow at 5:30. His title is “**Small Area Estimation: Its Evolution in Five Decades**.” Discussants will be J. N.K. Rao, Carleton University, and Julie Gershunskaya, Bureau of Labor Statistics. The Hansen Lecture will be held at the Jefferson Auditorium, USDA, Independence Ave, Washington DC. To register, visit this [site](#).

## CNSTAT *Meetings*

CNSTAT holds three regular meetings each year, with its spring and fall meeting dates following a set formula; our May meetings are always the Thursday–Friday preceding Mother’s Day and our October meetings are always the second-to-last Thursday–Friday of the month. Here are the next three meetings:

**CNSTAT’s 140<sup>th</sup> meeting** will be held **October 17-18, 2019**, at the **National Academy of Sciences Building** at 2101 Constitution Avenue NW, Washington, D.C. On the **18<sup>th</sup>**, the meeting will feature a luncheon with statistical agency heads (members of the ICSP), followed by **Data Linkage Day** posters and lightning presentations and the **2019 Links Lecture**, given by Bruce Meyer on the topic of *Linking Data to Improve Income Statistics*. The event will begin with a poster session starting at 1:00 pm and end at 5:30 pm. [Register here!](#)

**CNSTAT’s 141<sup>st</sup> meeting** will be held **February 20-21, 2020**, in Stanford, California. It will be a retreat meeting and will not have an agency heads luncheon or a public seminar.

**CNSTAT’s 142<sup>nd</sup> meeting** will be held **May 7-8, 2020**, at the **National Academy of Sciences Building** at 2101 Constitution Avenue NW, Washington, D.C. On the **8<sup>th</sup>**, the meeting will feature a luncheon with statistical agency heads (members of the ICSP), followed by a public seminar, beginning with light refreshments at 1:30 pm and ending at 5:00 pm.

## *Active* PANELS & WORKSHOPS

Unless otherwise noted, meetings are in Washington, D.C., and include open sessions. For further information, contact Brian Harris-Kojetin at [BKojetin@nas.edu](mailto:BKojetin@nas.edu) or Rebecca Krone at [RKrone@nas.edu](mailto:RKrone@nas.edu). . Projects are listed by sponsor agency, beginning with federal departments. Also see the CNSTAT [web site](#) under “Our Work.”

### Department of Agriculture

#### **Consensus Panel on Improving Consumer Data for Food and Nutrition Policy Research**

Sponsor: Economic Research Service

Duration: October 2017–December 2019

Study director: Christopher Mackie; senior program officer: Nancy Kirkendall; associate program officer: Michael Siri

Chair: Marianne Bitler (University of California, Davis)

Publication planned: Consensus report is being drafted

Meetings: Fifth and last meeting held May 20, 2019, in Chicago, IL

### **Workshop on Model-Based Methods for Producing Estimates of Livestock with Appropriate Measures of Uncertainty**

Sponsor: National Agricultural Statistics Service

Duration: September 2014–September 2019

Study director: Nancy Kirkendall; project assistant: Anthony Mann

Chair: Eric Slud (University of Maryland and U.S. Census Bureau)

Publication: *Using Models to Estimate Hog and Pig Inventories*, proceedings of the workshop, released September 27, 2019 (see “Recently Released Reports” above)

Meeting: Workshop held May 15, 2019; see this [site](#) for more information

## **Department of Commerce**

### ***Committee on Data and Management Strategies for Recreational Fisheries with Annual Catch Limits (led by Ocean Studies Board)***

Sponsor: National Oceanic and Atmospheric Administration

Duration: September 2019 – March 2021

Study director: Stacey Karras; senior project officer: TBD

Chair: TBD

Publication planned: Consensus report

Upcoming meeting: TBD

### **Workshop on 2020 Census Data Products**

Sponsor: U.S. Census Bureau

Duration: August 2019 – July 2020

Study director: Daniel Cork; senior scholar: Constance Citro; project assistant: Anthony Mann

Chair: TBD

Publication planned: Workshop proceedings

Upcoming meeting: Workshop scheduled for December 11-12, 2019, in Washington, DC

## **Department of Education**

**Consensus Committee on Developing Indicators of Educational Equity** (see listing under “The Atlantic Philanthropies et al.” below)

## **Department of Health and Human Services**

### **Consensus Panel on Rising Midlife Mortality Rates and Socioeconomic Disparities**

(led by Committee on Population)

Sponsor: National Institute on Aging; Robert Wood Johnson Foundation

Duration: October 2018–December 2020

Study director: Malay Majmundar; program officer: Tara Becker; project assistant: Ellie Grimes

Chair: Kathleen Mullan Harris (UNC, Chapel Hill)

Publication planned: Consensus report

Upcoming meetings: Fourth meeting scheduled for October 21-22, 2019; see this [site](#) for more information

### **Workshop on Approaches to Estimating the Prevalence of Human Trafficking in the United States**

(in collaboration with the Committee on Population)

Sponsor: Office of Women’s Health

Duration: September 2018–December 2019

Study director: Jordyn White; project assistant: Ellie Grimes



Chair: David Banks (Duke University)

Publication planned: the full Workshop proceedings are being drafted; the Proceedings of a Workshop-in-brief is available [here](#).

Meeting: Workshop held April 8-9, 2019; see this [site](#) for more information

### **Workshop on Social Science Modeling for Big Data in the World of Machine Learning**

Sponsor: National Institute on Aging, Division of Behavioral and Social Research

Duration: October 2018–December 2019

Study director: Michael Siri; project assistant: Jillian Kaufman

Co-chairs: Harlan M. Krumholz (Yale University School of Medicine) and Sendhil Mullainathan (University of Chicago Booth School of Business)

Publication planned: None

Upcoming meeting: Workshop scheduled for October 24-25, 2019, in Washington, DC

## **Department of Homeland Security**

### **Consensus Committee on Best Practices in Assessing Mortality and Significant Morbidity Following Large-Scale Disasters** (led by Board on Health Sciences Policy)

Sponsor: Federal Emergency Management Agency

Duration: October 2018–September 2020

Study director: Michelle Mancher (HSP); senior program officer: Daniel Cork

Chair: Ellen J. MacKenzie (Johns Hopkins Bloomberg School of Public Health)

Publication planned: Consensus report

Upcoming meetings: Third meeting scheduled for October 7-8, 2019, in Sacramento and Palisades, CA; see this [site](#) for more information

## **Department of the Interior**

### **Consensus Committee on An Assessment of Native Seed Needs and Capacities** (led by Board on Agriculture and Natural Resources)

Sponsor: Bureau of Land Management

Duration: Fall 2018 – Fall 2020

Study director: Robin Schoen (BANR); senior program officer: Krisztina Marton

Chair: Susan Harrison (University of California, Davis)

Publication planned: Consensus report

Upcoming meetings: Second meeting scheduled for October 10-11, 2019, in Bend, OR; see this [site](#) for more information

## **Department of Labor**

### **Consensus Panel on Contingent Work and Alternate Work Arrangements**

Sponsor: Bureau of Labor Statistics

Duration: September 2018–March 2020

Study director: Christopher Mackie; project assistant: Anthony Mann

Chair: Susan Houseman (W.E. Upjohn Institute for Employment Research)

Publication planned: Consensus report is being drafted

Upcoming meetings: Third meeting (closed) held September 6, 2019, in Chicago, IL; further meetings TBD; see this [site](#) for more information

### **Consensus Panel on Improving Cost-of-Living Indexes and Consumer Inflation Statistics in the Digital Age for the Bureau of Labor Statistics**

Sponsor: Bureau of Labor Statistics

Duration: September 2019–May 2021

Study director: TBD  
Chair: TBD  
Publication planned: Consensus report  
Upcoming meetings: TBD

**Consensus Panel on Measuring the Transformation of Retail Trade and Related Activities for the Bureau of Labor Statistics**

Sponsor: Bureau of Labor Statistics  
Duration: September 2019–March 2021  
Study director: TBD  
Chair: TBD  
Publication planned: Consensus report  
Upcoming meetings: TBD

**Department of State**

**Consensus Committee on Foreign Language Assessment for the U.S. Foreign Service Institute** (led by DBASSE Executive Office)

Sponsor: U.S. Foreign Service Institute  
Duration: 18 months  
Study director: Stuart Elliott; senior program officer: Judith Koenig; project assistant: Anthony Mann  
Chair: Dorry Kenyon (Center for Applied Linguistics, Washington, DC)  
Publication planned: Consensus report is being drafted  
Upcoming meetings: Fourth meeting scheduled for October 11-12, 2019; see this [site](#) for more information

**Department of Transportation**

**Standing Committee for Improving Motor Carrier Safety Measurement**

(joint with the Transportation Research Board)  
Sponsor: Federal Motor Carrier Safety Administration  
Duration: October 2017–September 2019  
Study director: Michael Cohen; TRB Studies and Special Programs Division director: Tom Menzies; associate program officer: Michael Siri  
Co-chairs: Joel Greenhouse (Carnegie Mellon) and Sharon Lise-Normand (Harvard Medical School)  
Publications: Standing committees do not issue reports; they meet for discussion; they also identify topics for separate workshops or consensus panels.  
Meetings: The standing committee held its last teleconference, September 27, 2019

**National Science Foundation**

**Consensus Panel on Transparency and Reproducibility of Federal Statistics for the National Center for Science and Engineering Statistics**

Sponsor: National Center for Science and Engineering Statistics  
Duration: September 2018–November 2020  
Study director: Michael Cohen; co-study director: Michael Siri; project assistant: Jillian Kaufman  
Chair: Daniel Kasprzyk (NORC at the University of Chicago)  
Publication planned: Consensus report  
Upcoming meetings: Third meeting scheduled for November 5-6, 2019, in Washington, DC; see this [site](#) for more information.

**Research And Development, Global Value Chains, And Globalization Measurement: A Workshop**

(led by Board on Science, Technology, and Economic Policy)

Sponsor: National Center for Science and Engineering Statistics

Duration: September 2019–March 2021

Study director: TBD

Chair: TBD

Publication planned: Workshop proceedings

Upcoming meetings: TBD

**Workshop on Implications of Convergence for Measuring the Science and Engineering Workforce and the S&E Enterprise**

Sponsor: National Center for Science and Engineering Statistics

Duration: September 2018–November 2020

Study director: Daniel Cork; project assistant: Anthony Mann

Chair: TBD

Publication planned: Workshop proceedings

Upcoming meetings: TBD

**The American Educational Research Association, the Atlantic Philanthropies, the Ford Foundation, the Spencer Foundation, the U.S. Department of Education, the W.K. Kellogg Foundation, and the W.T. Grant Foundation**

**Consensus Committee on Developing Indicators of Educational Equity**

Sponsors: See above list

Duration: December 2016–September 2019

Study director: Judith Koenig; senior scholar: Constance Citro; senior program officer: Jordyn White; project assistant: Kelly Arrington

Chair: Christopher Edley, Jr. (The Opportunity Institute, Berkeley, CA)

Publication: Final consensus report, *Monitoring Educational Equity*, released on June 13, 2019, now available in printed form (see “Recently Released Reports” above)

**The William and Flora Hewlett Foundation**

**Guidebook on Developing Indicators of Educational Equity**

Sponsors: William and Flora Hewlett Foundation

Duration: September 2019–February 2021

Study director: Natalie Nielsen, Senior Program Officer

Chair: TBD

Publication: Derivative guidebook for state and district education policymakers to briefly explain the indicators in the consensus report *Monitoring Educational Equity* and provide concrete examples that will help in implementing them.



• **CONTACT INFORMATION for CNSTAT** •

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– See our website for previous issues of *News from CNSTAT*, under “CNSTAT News” –

The Committee on National Statistics was established in 1972 at the National Academies of Sciences, Engineering, and Medicine to improve the statistical methods and information on which public policy decisions are based. The committee carries out studies, workshops, and other activities to foster better measures and fuller understanding of the economy, the environment, public health, crime, education, immigration, poverty, welfare, and other public policy issues. It also evaluates ongoing statistical programs and tracks the statistical policy and coordinating activities of the federal government, serving a unique role at the intersection of statistics and public policy. The committee’s work is supported by a consortium of federal agencies through a National Science Foundation grant, a National Agricultural Statistics Service cooperative agreement, and several individual agreements.

# Data Linkage Day

October 18, 2019



## Agenda

1:00 - 1:45 PM	<b>Poster Session Opens</b> - Great Hall
1:45 - 2:00 PM	<b>Plenary Session Begins</b> - Auditorium Welcome and Introductions - Robert Grovers, CNSTAT Chair Current Key Initiatives in the Federal Statistical System - Nancy Potok, <i>Office of Management and Budget</i>
2:00 - 3:00 PM	<b>2019 Links Lecture</b> Introduction: Arthur Kennickell, Stone Center, CUNY Graduate Center Linking Data to Improve Income Statistics: Bruce Meyer, University of Chicago Connector Remarks: Mary Bohman, Bureau of Economic Analysis
3:00 - 4:00 PM	<b>Data Linkage Lightning Presentations</b> Introduction: Brian Harris-Kojetin, CNSTAT Director
4:00 - 5:30 PM	<b>Poster Session Resumes</b> - Great Hall Light Refreshments
5:30 PM	<b>Adjourn</b>

## Lightning Presentations

- **Andrea Carlson**  
*U.S. Department of Agriculture, Economic Research Service*  
Importing nutrients into scanner data and estimating prices for foods in the National Health and Nutrition Examination Survey: The Purchase to Plate Crosswalk and Food Price Tool
- **John Voorheis**  
*U.S. Census Bureau*  
The Promises and Challenges of Linked Rent Data from the Consumer Expenditure Survey and Housing and Urban Development
- **Emily Wiegand**  
*Chapin Hall at The University of Chicago*  
Complexities and Practical Solutions for Linking Human Services Datasets
- **Suad El Burai Félix**  
*Centers for Disease Control and Prevention / National Center for Health Statistics*  
Comparative Analysis of the NHANES Public-Use and Restricted-Use Linked Mortality Files
- **Mark Motivans**  
*Bureau of Justice Statistics*  
Using Linked Data from the Federal Justice Statistics Program
- **Amy Burke**  
*National Science Foundation*  
Estimating Stay Rates of Foreign-Born Science and Engineering Doctorate Holders by Using Data from the National Center for Science and Engineering Statistics and the Social Security Administration: 1995 to Present Day
- **Daniel Flynn**  
*U.S. Department of Transportation*  
Linking crowdsourced and traditional traffic incident data to estimate roadway crash counts
- **Emanuel Bendavid**  
*U.S. Census Bureau*  
Regression with Linked Data Files

# Posters

**Scott Wentland** - *U.S. Bureau of Economic Analysis*

Accounting for Land in the United States: Integrating Physical Land Cover, Land Use, and Monetary Valuation

**Jonathan Rothbaum** - *U.S. Census Bureau*

Administrative Income Statistics Project: Using Linked Data to Improve Income Statistics

**Xiaoshu Zhu** - *Westat*

An application of the record linkage macro WesLink to identify duplicates within and across multiple sampling frames

**Ricardo Limes** - *U.S. Bureau of Economic Analysis*

BEA and BLS Blend Data to Gain New Insights about Foreign Direct Investment in the United States

**Jennifer Ortman** - *U.S. Census Bureau*

Big Survey Meets Big Data: Implementing Administrative Records on the American Community Survey

**Kate McNamara** - *U.S. Census Bureau*

Census Bureau Evidence Building Projects

**Julia Redmon** - *U.S. Department of Education*

Common Core of Data (CCD): Linking the public district and school universe to other data sources

**Liana Fox** - *U.S. Census Bureau*

Correcting for SNAP Underreporting: Using Administrative Records to Develop a Model for Improving Reported SNAP Receipt in the CPS ASEC

**Keith Finlay** - *U.S. Census Bureau*

Criminal Justice Administrative Records System (CJARS)

**Matthew Bouch** - *U.S. Census Bureau*

Data Linkage with SK-Learn

**Karen White** - *National Science Foundation*

Demographic Differences in the Publication Output of U.S. Doctorate Recipients

**Gail Mulligan** - *U.S. Department of Education*

Developing from within: Using NCES Administrative Data to Build NCES School Sampling Frames and Study Data Files

**David Popko** - *Bureau of Labor Statistics*

Does location matter? A case study of the influence of geography in the measurement of gasoline price inflation

**Kenneth Jones** - *Department of Veterans Affairs*

Equity-Guided Improvement Strategy to Reduce and Eliminate Veteran Health Disparities

**Edward Porter** - *U.S. Census Bureau*

False Duplicates in the Census: A novel approach to identifying false matches from Record Linkage Software

**Paul Bernhard** - *Department of Veterans Affairs - Veterans Health Administration*

Geocoding Veteran Addresses to Get Distance to Nearest VA Health Facility

**Kendra Asher** - *Bureau of Labor Statistics*

Improving Census to NAICS industry matches

**Angela Wyse** - *U.S. Census Bureau*

Learning about Homelessness in the U.S. Using Linked Survey and Administrative Data

**Derek Wu** - *U.S. Census Bureau*

Learning about Homelessness in the U.S. Using Linked Survey and Administrative Data

**Elina Page** - *U.S. Department of Agriculture*

Leveraging Extant Data in the National Household Food Acquisition and Purchase Survey

**Zaria Tatalovich-Wenzel** - *National Cancer Institute*

Linkage Initiatives in the Surveillance Research Program of the National Cancer Institute

**David Shnoffner** - *Social Security Administration*

MINT (Modeling Income in the Near Term)

**Cindy Zhang** - *National Center for Health Statistics, Centers for Disease and Control Prevention*

Mortality Experience of the 2001-2014 National Health Interview Survey Linked Mortality Files Participants

**Merianne Spencer** - *National Center for Health Statistics*

Opioid-Involved Emergency Department Visits, Hospitalizations, and Deaths: Analysis of Linked Data from the National Center for Health Statistics

**Scott Campbell** - *National Opinion Research Center at University of Chicago*

Overcoming Big Data: Linking the 2014 National Hospital Care Survey to the 2014/2015 Medicare CMS Master Beneficiary Summary File

**Derek Wu** - *U.S. Census Bureau*

Poverty in the United States Using the Comprehensive Income Dataset

**MoonJung Cho** - *U.S. Bureau of Labor Statistics*

Practical Diagnostic Tools for Data Linkage Methods

**Lowell Mason** - *Bureau of Labor Statistics*

Record Linkage Applied to Inter-Agency Databases

**Matthew Chambers** - *U.S. Department of Transportation*

The Bureau of Transportation Statistics Links Data to Measure Port Performance

**Erik Scherpf** - *U.S. Department of Agriculture*

The Implications of Misreporting for Longitudinal Studies of SNAP

**Pheak Lim** - *National Center of Veterans Analysis and Statistics*

United States Eligibility Trends and Statistics (USVETS) Database

**Jianzhu Li** - *Westat*

Use of Probabilistic Record Linkage to Measure Re-Identification Risk

**Tracy Hunt-White** - *U.S. Department of Education*

Using Administrative Data to Improve Coverage of Veterans in NCES Postsecondary Sample Surveys

**Anne Parker** - *International Revenue Service*

Using Machine Learning Approaches to Improve Industry Coding in the IRS Master File

**Jin Kim** - *National Center of Veterans Analysis and Statistics*

Veteran Population Model