

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Committee on National Statistics
Division of Behavioral and Social Sciences and Education

**Panel on Improving Federal Statistics for
Policy and Social Science Research Using Multiple Data Sources and
State-of-the-Art Estimation Methods**

**WORKSHOP ON STATE AND LOCAL GOVERNMENTS USE OF
ALTERNATIVE AND MULTIPLE DATA SOURCES**

June 1, 2016
The National Academies of Sciences, Engineering, and Medicine
Keck Center, 500 Fifth Street NW, Room 100
Washington, DC

AGENDA

OPEN SESSION

8:30 am *Welcome, Introductions, and Goals of the Workshop*
Bob Groves, Chair; Georgetown University
Note: *Continental Breakfast available outside Keck 100 at 8:00 am*

8:35 am **Session I: Creating and Building Data Systems**
Moderator: Jim Lynch, University of Maryland

Federalism Run Amok: Building a Data Infrastructure for K-12 Education in the States
Jack Buckley, The College Board

Implementation of NCS-X/NIBRS in Police Jurisdictions
Howard Snyder, Bureau of Justice Statistics

Census Bureau Experiences in Obtaining State UI and SNAP Data
Ron Jarmin, Census Bureau

10:20 am **BREAK**

10:35 am **Session II: Using Alternative Data Sources**
Moderator: Ophir Freider, Georgetown University

Sensing Cities
Steve Koonin, NYU Center for Urban Science and Progress

11:15 am Session III: Integrating State Data Systems

Moderator: H.V. Jagadish, University of Michigan

Building State Infrastructure to Effectively Manage, Link, and Use Data
Rachel Zinn, Workforce Data Quality Campaign

11:55 pm Working Lunch: *lunch will be provided for all attendees*

12:50 pm Session IV: Integrating Local and National Data Systems

Moderator: Colm O'Muircheartaigh, NORC/University of Chicago

Linking City, County, State, and Federal datasets
Robert Goerge, Chapin Hall at the University of Chicago

Encouraging National, Public, and Private Data Sharing through the Regional Integrated Transportation Information System
Michael Pack, University of Maryland

2:05 pm Session V: Governance of Integrated Data Systems

Moderator: Frauke Kreuter, University of Maryland

Common Governance Models for Integrated Data Systems
Whitney LeBoeuf, University of Pennsylvania

2:45 pm BREAK

3:00 pm Session VI: Privacy

Moderator: Marc Rotenberg, Electronic Privacy Information Center

Privacy Issues with Sensor Data Collections
Michael Froomkin, University of Miami

Information Sharing and Analytics with Privacy by Design
Jeff Jonas, IBM

4:15 pm Session VII. Issues with Federal Statistical Agency Gaining Access to Datasets

Moderator: Cynthia Dwork, Microsoft Research

Discussions with Private firms about Sharing Data with Federal Statistical Agencies
Steve Eglash, Stanford University

5:00 pm Adjourn

Workshop Presenter Bios:

Jack Buckley is Senior Vice President for Research at the College Board, where he is responsible for research across their entire suite of assessments and instructional products, as well as on broader issues in education. Before joining the College Board in 2014, Jack served as Commissioner of the U.S. Department of Education's National Center for Education Statistics (NCES). In that role, he was responsible for the measurement of all aspects of U.S. education, including conducting the National Assessment of Educational Progress, administering the Statewide Longitudinal Data Systems grant program, developing the Common Education Data Standards, collecting cross-sectional and longitudinal data through a wide range of survey and administrative data collections, and coordinating U.S. participation in international assessments. He was also a senior technical adviser to Department of Education leadership and co-chair of its Data Strategy team. Jack is known in his field for his research on school choice--particularly charter schools--and on statistical methods for public policy and education. In addition to a former term of service as the Deputy Commissioner of NCES, Jack has also worked as a professor of applied statistics at New York University, an intelligence analyst, a professor of educational research and measurement at Boston College, and a surface warfare and nuclear engineering officer in the U.S. Navy. He holds doctoral and master's degrees in political science from SUNY Stony Brook and a bachelor's degree in government from Harvard.

Howard N. Snyder is Deputy Director of the Statistical Programs Division of the Bureau of Justice Statistics (BJS) within the U.S. Department of Justice. He is responsible for BJS activities related to law enforcement incident-based statistics, indigent defense, prosecution, courts, the federal justice system, criminal history records, recidivism, tribal justice, juvenile justice and BJS's special projects. He leads the team that oversees the National Crime Statistics Exchange (NCS-X), an initiative designed to provide the Nation with a detailed description of the crimes known to law enforcement through expanding the sample of law enforcement agencies reporting incident-based data to the FBI's National Incident-Based Reporting System (NIBRS). Among his other accomplishments, he led the BJS team that recently developed a software infrastructure that mines and then standardizes the administrative data found in the Nation's criminal history repositories to support BJS research on criminal history records and recidivism. He was honored in 2004 for his lifetime contribution to research by the American Correctional Association with its *Peter P. Lejins Research Award* and in 2010 by the American Society of Criminology with its *August Vollmer Award* for his research in, and accumulated contributions to, the field of criminology. He has served on numerous advisory committees, including as the Chair of the American Correctional Association's Research Council and the American Statistical Association's Committee on Law and Justice Statistics.

Ron Jarmin is the Assistant Director for Research and Methodology at the U.S. Census Bureau. He formerly was the Bureau's Chief Economist and Chief of the Center for Economic Studies and a Research Economist. He holds a PhD in economics from the University of Oregon and has published papers in the areas of industrial organization, business dynamics, entrepreneurship, technology and firm performance, urban economics, data access and statistical disclosure avoidance. He oversees a broad research program in statistics, survey methodology and economics to improve economic and social measurement within the federal statistical system.

Steven E. Koonin was appointed as the founding Director of NYU's Center for Urban Science and Progress in April 2012. That consortium of academic, corporate, and government partners will pursue research and education activities to develop and demonstrate informatics technologies for urban problems in the "living laboratory" of New York City. He previously served as the U.S. Department of Energy's second Senate-confirmed Under Secretary for Science from May 19, 2009 through November 18, 2011. As the Chief Scientist at BP from 2004 to early 2009, Dr. Koonin developed the long-range technology strategy for alternative and renewable energy sources. Steve joined the California Institute of Technology's faculty in 1975, was a research fellow at the Niels Bohr Institute during 1976-1977, and was an Alfred P. Sloan Foundation Fellow during 1977-1979. He became a professor of theoretical physics at Caltech in 1981 and served as Chairman of the Faculty from 1989-1991. Dr. Koonin was the seventh provost of Caltech from 1995-2004. In that capacity, he was involved in identifying and recruiting 1/3 of the Institute's professorial faculty and left an enduring legacy of academic and research initiatives in the biological, physical, earth, and social sciences, as well as the planning and development of the Thirty-Meter Telescope project. He earned a B.S. from the California Institute of Technology as well as a Ph.D. from the Massachusetts Institute of Technology.

Rachel Zinn is Director of Workforce Data Quality Campaign (WDQC), a project of the non-profit National Skills Coalition, which advocates for improving education and workforce data and using information to improve our nation's human capital development policies. Before joining WDQC, Rachel was a Program Analyst in the Education and Labor Branches of the U.S. Office of Management and Budget (OMB), where she provided policy analysis on postsecondary education and workforce development and organized multi-agency efforts to enhance data linkages. Earlier in her career, Rachel worked for the Northeast Ohio Council on Higher Education, served as a CORO fellow on civic engagement in her native city of Cleveland, and was a reporter with The Blade daily newspaper in Toledo. Rachel holds a master's degree in public administration from the Maxwell School at Syracuse University and a bachelor's degree in Asian Studies from Amherst College.

Robert Goerge is a Senior Research Fellow at Chapin Hall at the University of Chicago with more than 30 years of research focused on improving the available data and information on children and families, particularly those who require specialized services related to maltreatment, disability, poverty, or violence. His work provides high-quality information to policymakers to improve the programs serving children and their families. He is a Senior Fellow at the Harris School for Public Policy Studies and a Senior Fellow at the UC Computation Institute. Dr. Goerge developed Chapin Hall's Integrated Database on Child and Family Programs in Illinois, which links the administrative data on social service receipt, early care and education, criminal and juvenile justice, employment, healthcare, and benefit programs to provide a comprehensive picture of child and family use of publicly provided or financed service programs. He earned a Ph.D. in Social Policy from the University of Chicago.

Michael Pack is the Director of the CATT Laboratory at the University of Maryland. He has previously worked at the Oak Ridge National Laboratory's Center for Transportation Analysis and the University of Virginia's Smart Laboratory. He was recently honored at the White house as a Champion of Change for his work to encourage open data and information sharing within the transportation industry. He earned a B.S in Integrated Sciences and Technologies from James Madison University as well as a M.S. in Systems Engineering from the University of Virginia.

Whitney LeBoeuf is a Research Associate with Actionable Intelligence for Social Policy and the Penn Child Research Center at the University of Pennsylvania. She has contributed her expertise in social policy and quantitative methodology to research around high-priority policy questions for local, state and national policy leaders. Dr. LeBoeuf has been involved in numerous studies using Integrated Data Systems (IDSs) to examine issues including early risks to later educational success, the educational well-being of African American boys, and the influence of homelessness and school mobility on children's early academic and behavioral adjustment. She is presently leading a multi-site study using IDSs to examine the effects of assisted housing programs on children's educational well-being funded by the MacArthur Foundation. She is also serving on an expert panel to develop data standards and quality criteria for IDSs through a grant from the Arnold Foundation. Dr. LeBoeuf received her Ph.D. in Education Policy from the University of Pennsylvania's Graduate School of Education.

A. Michael Froomkin is the Laurie Silvers & Mitchell Rubenstein Distinguished Professor of Law at the University of Miami in Coral Gables, Florida, specializing in Privacy Law, Internet Law, and Administrative Law. He is a founder-editor of the online law review *Jotwell*, *The Journal of Things We Like (Lots)*. He is the founder and sometime Chair of the *We Robot* conference that alternates annually between Miami and the West Coast. He serves on the Editorial Board of *Information, Communication & Society* and of *I/S: A Journal of Law and Policy for the Information Society*. Prof. Froomkin is a member of the Royal Institute of International Affairs in London, and a non-resident Fellow of the Center for Democracy & Technology and the Yale Law School Information Society Project. Prof. Froomkin received his J.D. from Yale Law School, where he served as Articles Editor of both the *Yale Law Journal* and the *Yale Journal of International Law*. He has an M.Phil in History of International Relations from Cambridge University in England, which he obtained while on a Mellon Fellowship. His B.A. from Yale was in Economics and History, summa cum laude, phi beta kappa with Distinction in History.

Jeff Jonas is an IBM Fellow and Chief Scientist of Context Computing. Jonas' work in context-aware computing was originally developed at Systems Research & Development (SRD), founded by Jonas in 1985, and acquired by IBM in January, 2005. Prior to SRD's acquisition, Jonas spearheaded the design and development of a number of innovative systems, including technology used by the Las Vegas gaming industry. Following an investment in 2001 by In-Q-Tel, the venture capital arm of the CIA, SRD began playing a role in America's national security and counterterrorism mission. One significant contribution included an analysis of the connections between the individual 9/11 terrorists. Today, Jonas is working on a new generation of context computing code named "G2." This technology will be used by organizations to make better decisions, faster. This unique technology will play a wide range of roles ranging from advanced anti-money laundering detection and continuous insider threat monitoring to forecasting asteroid

impacts. He is a Senior Associate at the Center for Strategic and International Studies (CSIS), and a Distinguished Engineer of Information Systems (adjunct) at Singapore Management University (SMU). He is currently the author or co-author of 11 patents and has recently been awarded an honorary Ph.D. Degree in Science from Claremont Graduate University.

Steve Eglash is an industry executive and technologist focusing on data science, energy, cleantech, optoelectronics, and materials with a strong technical background and experience in corporate management, engineering, marketing and sales, venture capital, and the management of innovation. Steve works at Stanford University where he manages programs in data science, energy, environment, and other fields. Previously, Steve was President and CEO of the solar energy company Cyrium Technologies, a full time consultant to the National Renewable Energy Laboratory and the US Department of Energy, and a venture capitalist at Worldview Technology Partners. Steve was also Vice President at SDL (JDSU) and a research scientist at MIT Lincoln Laboratory. Steve received a PhD and MS from Stanford University, and a BS from the University of California at Berkeley, all in Electrical Engineering. He has more than 40 papers published in peer-reviewed journals and four patents. Steve is a member of the Board of Directors of the Materials Research Society, a Fellow of the SPIE, and a member of the IEEE and OSA. Steve is a member of the Santa Clara University College of Arts & Sciences Leadership Board. He is on the City of Palo Alto Utilities Advisory Commission. Steve is involved in humanitarian projects such as the Tech Museum Awards for Technology Benefiting Humanity and the Global Social Benefit Incubator at Santa Clara University.