

ICPSR **M** | ISR BULLETIN

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ICPSR, Elsevier link journal articles, data

Reciprocal links tie
ScienceDirect articles to the
underlying data archived
at ICPSR.



Summer Program's in season!

There are plenty of new
workshops in this year's lineup.

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ICPSR'S NEXT DIRECTOR BEGINS HER TERM IN JULY



"I am very excited to be joining ICPSR and look forward to working with its staff, Council and member institutions."

Margaret Levenstein

Margaret Levenstein has been appointed the director of the Inter-University Consortium for Political and Social Research at the U-M Institute for Social Research (ICPSR).

The announcement follows a national search by a joint committee composed of ISR faculty and members of the ICPSR Governing Council, who represent the consortium's 760 members worldwide. Levenstein will be the ICPSR's first female director.

"Maggie's vision for ICPSR's future is exciting," said ICPSR Governing Council Chair Chandra Muller. "She has a strong academic research background, understands the potential of data science for current and future social science researchers, and has a stellar reputation both nationally and internationally. We were impressed by her skill in bringing together experts from diverse fields for the advancement of social science research goals. The Council is looking forward to working with her."

Levenstein will begin her five-year term on July 1, following the departure of current ICPSR Director George Alter. Under Alter's direction the ICPSR expanded international members, increased data accessibility, and the Summer Program in Quantitative Methods of Social Research recruited more than 1,000 participants annually.

"I am very excited to be joining ICPSR and look forward to working with its staff, Council and member institutions," Levenstein said. "ICPSR is an important resource for the social and behavioral science community, curating and making accessible data assets that thousands of researchers have created over the last seventy plus years. The importance of both developing our capabilities to analyze and use data and to preserving data have never been greater. The "big data" revolution creates new opportunities and challenges. ICPSR's role will be to help the research community make the most of those opportunities."

An economist, Levenstein first joined ISR's [Survey Research Center \(SRC\)](#) in 2003 as the executive director of the [Michigan Census Research Data Center \(MCRDC\)](#), a joint

project with the U.S. Census Bureau. She is also a research professor in SRC and adjunct professor of business economics and public policy in the U-M Stephen M. Ross School of Business.

Levenstein has taken an active role at ISR, joining the [Director's Advisory Committee on Diversity](#) in 2009 and serving as the chair of ISR's [Diversity, Equity and Inclusion](#) strategic planning committee and as the liaison to the larger university program.

"ICPSR is one of the great resources supporting social science research all over the world. I am very excited about the skills and experience that Maggie will bring as the next ICPSR director," said ISR Director David Lam. "The innovative leadership she has shown directing the MCRDC and chairing ISR's Diversity, Equity, and Inclusion strategic planning process will make her a great leader of ICPSR."

She is the associate chair of the American Economic Association's Committee on the Status of Women in the Economics Program and past president of the Business History Conference. Levenstein received a Ph.D. in economics from Yale University and a B.A. from Barnard College, Columbia University.

Her research and teaching interests include industrial organization, competition policy, business history, data confidentiality protection, and the improvement of economic statistics. She is the author of *Accounting for Growth: Information Systems and the Creation of the Large Corporation* (Stanford University Press 1998) and co-editor of a two-volume collection, *Cartels* (Edward Elgar 2007). She is the author of numerous studies on competition and collusion, the development of information systems, and the organization of innovation.

By Kory Zhao, Director of Communications, University of Michigan Institute for Social Research

CIVICLEADS PROVIDES DATA ON CIVIC EDUCATION, ACTION

New archive provides a centralized repository for this multi-disciplinary research area, including datasets created across education, political science, developmental sciences, and other disciplines.

Researchers from a wide variety of disciplines are interested in civic education, civic action, and the many relationships between the two. ICPSR's Education and Child Care Data Archives' newest project provides infrastructure for researchers to share and access high-quality datasets, which can be used to study civic education and involvement. Funded by a grant from the [Spencer Foundation, Civic Learning, Engagement, and Action Data Sharing \(CivicLEADS\)](#) provides a centralized repository for this multi-disciplinary research area, including datasets created across education, political science, developmental sciences, and other disciplines. Researchers can access quantitative and qualitative data on a broad range of topics for secondary analysis as well as share their own primary research data. CivicLEADS includes datasets from other ICPSR archives and seeks out emerging data collected by projects still in the field.

Beyond facilitating the sharing and discovery of data, CivicLEADS seeks to create a learning community around civic education and engagement research. The project strives to facilitate and support relationships with and between investigators and researchers at every level—from students to emeriti faculty. Data shared in this archive have been documented with thorough metadata, and tools drawing upon these metadata allow researchers to explore and compare variables both within and between studies. By providing tutorials, webinars, and in-person training, CivicLEADS connects researchers with data and facilitates the future of civic education and civic action research.

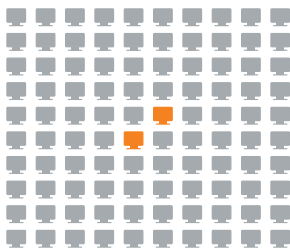
Researchers can explore curated data, share their data for secondary analysis, learn about training opportunities, and more at www.civicleads.org.

By David Bleckley and Johanna Bleckman



What are some of the examples of CivicLEADS datasets available to downloads, and some of the findings drawn from them?

Global Digital Activism Data Set, 2013



only 2%

of digital activism cases from 2010 to 2012 involved hacking attacks***

***Edwards F., Howard P.N., & Joyce M. (2013). Digital Activism and Non-Violent Conflict. Seattle: University of Washington, Digital Activism Research Project.

IEA Civic Education Study, 1999



3 in 10 14-year-olds in 1999 thought they would participate in a non-violent protest march as an adult**

**Torney-Purta, J., Lehmann, R., Oswald, H., & Schulz, W. (2001). Citizenship and Education in Twenty-Eight Countries: Civic Knowledge and Engagement at Age Fourteen. Amsterdam, The Netherlands: International Association for the Evaluation of Educational Achievement.



Summer Program's in Season

It's officially summertime at ICPSR! Here's a look at what's new this year at the 2016 Summer Program in Quantitative Methods of Social Research.

Summer Program | Continued on page 8

ICPSR 2016
SUMMER
PROGRAM

New Statistical Workshops in 2016

The following workshops take place in Ann Arbor, Michigan, unless noted otherwise.

Process Tracing in Qualitative and Mixed Methods Research, May 23-25: Process tracing is used to make within-case inferences about the presence or absence of causal mechanisms. An increasingly prominent methodology in political science, process tracing can be used to describe political phenomena and test the validity of theories and hypotheses. This workshop will provide participants with an understanding of the core elements of process tracing as a distinct social science case study method, while assessing its relative strengths and limitations and how it can be combined productively with other methods in multi-method designs.

Machine Learning for the Analysis of Text as Data, May 24-27 in Chapel Hill, North Carolina: This workshop will cover several central computational and statistical methods for the analysis of text as data. Whereas most methods of text analysis have been developed with predictive or descriptive motivations, this workshop will explore the use of text analytics for the reliable and valid development and testing of scientific theory.

Geospatial Data Curation, June 27-29, in Palo Alto, California: This workshop will focus on strategies for developing scalable and sustainable repository services for the curation of geospatial data. Participants will learn how to develop data and metadata management workflows that support the preservation and discovery of these resources using open source platforms. Aspects

of modeling and wrangling GIS data within a digital repository will be demonstrated for a variety of content types, including historic scanned maps, vector data, raster data, scientific data, and georectified maps. Approaches for creating metadata that support preservation and data sharing mandates will be covered in this course, along with methods for auto-generating and transforming metadata for aggregation and web-scale delivery.

Egocentric Social Network Analysis, July 18-22 in Bloomington, Indiana: This workshop will cover the foundational concepts, methodological considerations, and statistical techniques for egocentric social network analysis (SNA), which is used to understand the structure, function, and composition of network ties around an individual. Egocentric SNA is less limited in theoretical and substantive scope than sociocentric SNA, and it can be used to predict individual-level outcomes such as voting behavior. Additionally, because egocentric SNA uses individuals as cases, potential sampling frames and data collection strategies are virtually limitless.

Item Response Theory: Selected Topics - Ordinal, Multidimensional, and Explanatory Item Response Theory Models, July 18-22: This workshop will acquaint participants with several important topics in the field of Item Response Theory (IRT), beginning with an introduction to multidimensional binary IRT models. IRT models will be extended to the generalized linear mixed model framework, followed by an introduction of explanatory IRT models, where IRT responses can be modeled as functions of item and/or person characteristics (observer or latent). Finally, multidimensional and multilevel IRT models will be generalized to polytomous data, including both ordinal and nominal data. The workshop will also examine models for evaluating Differential Item Functioning (DIF) and Mixture IRT models (MixIRT). The applications of these models are

88
Courses
overall

101
Instructors

11
Locations in
US, Canada,
Portugal

quite broad and can be applied generally to any area of research using repeated categorical data.

New Sponsored Workshops

Panel Study of Income Dynamics (PSID) Data User Workshop, June 13-17: Sponsored by Panel Study of Income Dynamics, this workshop will orient participants to the content and structure of the core PSID interview, special topics modules, and supplemental studies. The Panel Study of Income Dynamics (PSID), begun in 1968, is the world's longest-running multigenerational household panel study. It is used widely in behavioral, social, and health sciences to investigate scientific and policy questions about life course trajectories in health and well-being, intergenerational social and economic mobility, income and wealth inequality, family investments in children, neighborhood effects on opportunity and achievement, and other topics.

BITSS: Research Transparency, July 5-6: Sponsored by the Berkeley Initiative for Transparency in the Social Sciences, this workshop is a crash course on the problems of publication bias, inability to replicate research, and specification searching (or p-hacking, among other names) that have heretofore caused researchers problems. We will cover recent methodological progress in this area, including study registration, pre-analysis plans, disclosure standards, and open sharing of data and materials, drawing on experiences in economics, political science, and psychology, as well as other social sciences.

Secondary Analysis of Data from the Population Assessment of Tobacco and Health (PATH) Study, August 3-5: Sponsored by the National Addiction & HIV Data Archive Program (NAHDAP), this free three-day workshop will introduce researchers to the Population Assessment of Tobacco and Health (PATH) Study. A collaboration between the National Institute of Health (NIH) and the Food and Drug Administration (FDA), the PATH Study is a household-based, nationally representative, longitudinal cohort study of approximately 46,000 U.S. adults and youth. The study was launched in 2011 to inform the FDA's regulatory activities under the Family Smoking Prevention and Tobacco Control Act. Using



ICPSR Summer Program participants listen to an instructor in 2015 in Ann Arbor. (Photo by Dory Knight-Ingram)

the first wave of data (collected from Sept. 2013–Dec. 2014), participants will explore the study's design, sample, data collection procedures, instruments, and variables.

Early Head Start Family and Child Experiences Survey (Baby FACES), August 8-9: Sponsored by Child Care & Early Education Research Connections, this free two-day workshop will introduce researchers to the Early Head Start Family and Child Experiences Survey (Baby FACES). A descriptive study of Early Head Start programs from 2009-2012, Baby FACES was designed to inform policy and practice at both national and local levels. The workshop will be taught by project leads from Mathematica Policy Research, who will explain the study's objectives, methods, instruments, key findings, and data structure. In addition to hands-on time with the data files and structured exercises, the workshop will focus on missing data and imputation and child-level home visitor and teacher data.

NEWS AND NOTES

Save the Date: ICPSR's Data Fair to run September 26-29, 2016

With new leadership, new data infrastructure, a new website in development, and the continuous evolution of data sharing, this data fair will focus its session content on the thrill of change, and put you at ease in managing it! You are invited to join ICPSR from the comfort of your desk as we broadcast 3-4 webinars each day. More information, session abstracts, and session registrations will be available this summer. All webinars are free and open to the public.

Workshop on “Providing Social Science Data Services: Strategies for Design and Operation” in August

Part of ICPSR's [Summer Program](#) and running August 1-5, this [five-day workshop](#) is being offered to individuals who manage or support local services for ICPSR and other research data for quantitative analysis. Those who should attend include anyone who is new to providing social science data services, who is seeking to revitalize an existing service, or who is looking to refresh and expand on previous knowledge.

New look for the [NCAA Student-Athlete Experiences Data Archive](#) website

The National Collegiate Athletic Association collects a wealth of data from its member institutions and their student-athletes. These data are collected to help answer research questions posed by college presidents, athletics personnel, faculty, student-athlete groups, the media, researchers and others in the higher education community and to assist in the development of national athletics policies.



Four interns join ICPSR for Summer 2016

The ICPSR Intern Class of 2016 has just been announced! Congratulations to: Patricia Martin (UC-Santa Barbara); Austin McKittrick (West Virginia University); Nicolo Pinchak (Bowling Green State University); and, Elaine Vilorio (Amherst College). See more on the [ICPSR Internship Program](#).



(Photo by Linda Detterman)

ICPSR web developer among diversity award winners

ICPSR Web Developer Wendi Fornoff was among the ten individuals and five teams honored on January 26, 2016, for contributions to diversity at the University of Michigan. The award recognizes individual staff members and teams for their extraordinary commitment and dedication to diversity at U-M. [Read more](#) in the University Record.



(Photo by Doctor Ashe)

ISR/ICPSR staffers visit Flint amid water crisis

ISR and ICPSR staffers visited Flint in February amid the drinking water crisis in Flint, in which the city's water supply experienced elevated lead levels. Part of the group went to a senior living apartment complex and the other part went door-to-door to resident homes collecting data, passing out water test kits, water filters and packs of water.

NEWS AND NOTES

Terms begin, end on ICPSR Council

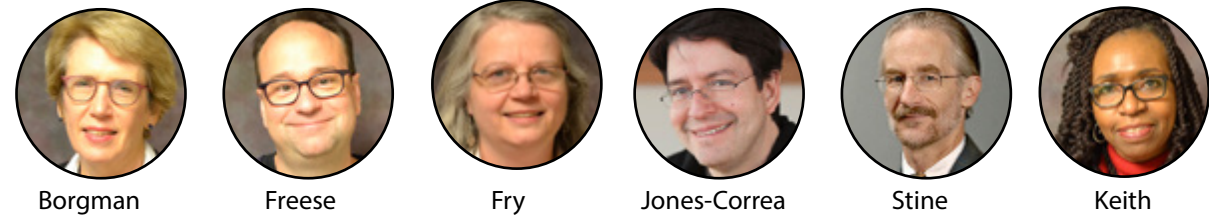
Six new members were recently elected to serve four-year terms on the ICPSR Governing Council, starting in 2016, and Chandra Muller was elected Council Chair.

New Members are **Christine L. Borgman**, University of California, Los Angeles (Information Studies); **Jeremy Freese**, Northwestern University (Sociology); **Jane Fry**, Carleton University (Data Centre, MacOdrum Library); **Michael Jones-Correa**, Cornell University (Political Science); **Verna M. Keith**, Texas A&M University (Race & Ethnic Studies); and **Robert A. Stine**, University of Pennsylvania (Statistics). ICPSR also thanks the following Council members, with terms ending in 2016, for their service and dedication: **Christopher H. Achen**, Princeton University (Political Science); **Marilyn Andrews**, University of Regina (Spatial & Numeric Data Services); **Tony N. Brown**, Vanderbilt University (Sociology); **Carl Lagoze**, University of Michigan (School of Information); **John Fox**, McMaster University (Social Statistics); and **Linda J. Waite**, University of Chicago. (Sociology)

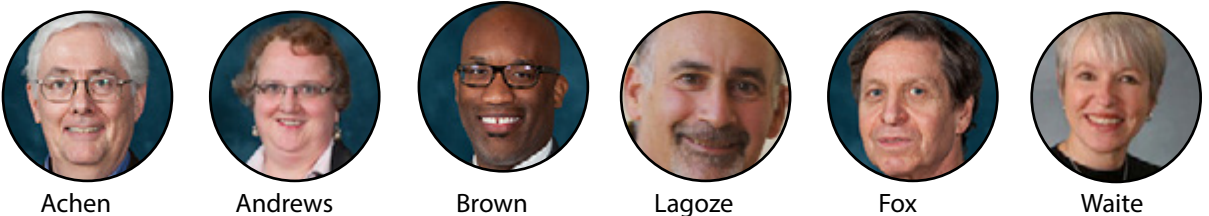


ICPSR Council Past Chair, Christopher Achen (Princeton University), passes the Heinz Eulau Memorial Gavel to ICPSR's new Council Chair, Chandra Muller (University of Texas at Austin), at the March 2016 ICPSR Council meeting in Ann Arbor. (Photo by Dory Knight-Ingram)

ICPSR Council terms beginning in 2016



ICPSR Council terms ending in 2016



TOP DOWNLOADS

January 1 – May 31, 2016

Rank	Study	Downloads
1	Maternal Lifestyle Study in Four Sites in the United States, 1993-2011	7,411
2	National Health and Nutrition Examination Survey (NHANES), 2005-2006	7,179
3	National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-2008 [Public Use]	7,137
4	National Health and Nutrition Examination Survey (NHANES), 1999-2000	5,685
5	Youth Development Study, 1988-2011 [St. Paul, Minnesota]	5,471
6	Uniform Crime Reporting Program Data [United States]: 1975-1997	5,038
7	National Health and Nutrition Examination Survey (NHANES), 2001-2002	4,626
8	National Center for Research on Early Childhood Education Teacher Professional Development Study (2007-2011)	4,569
9	National Health and Nutrition Examination Survey (NHANES), 2003-2004	4,534
10	American Community Survey (ACS): Public Use Microdata Sample (PUMS), 2009	4,206

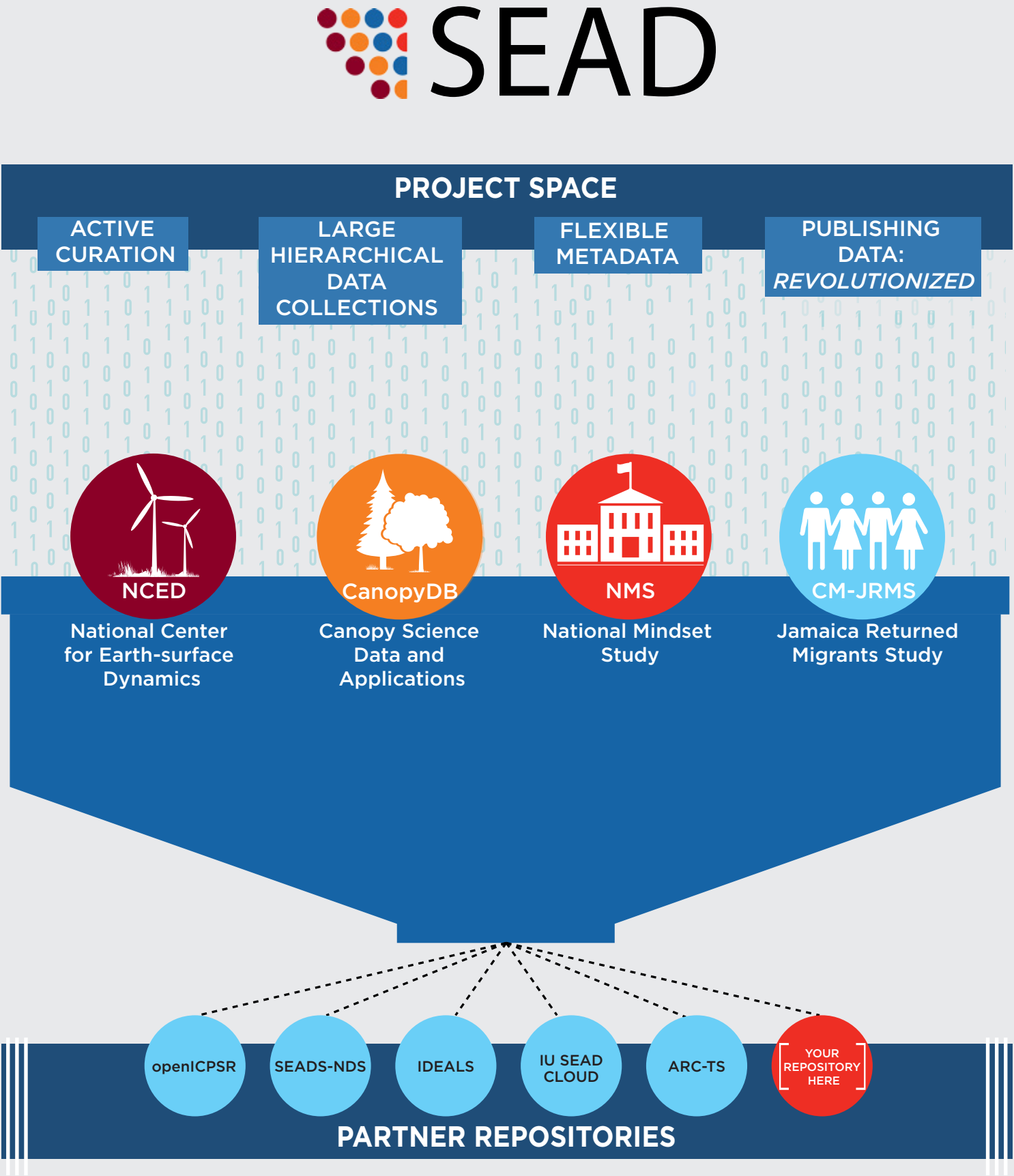
5 UPDATES AS SEAD GROWS, BUILDS RESEARCHER TOOLKIT

The SEAD Project moved to ICPSR in early 2015. Led by PI Margaret Hedstrom and co-PIs Praveen Kumar, James Myers, and Beth Plale, SEAD is operated by a multi-institutional team from the University of Michigan, University of Illinois Urbana-Champaign, and Indiana University. SEAD serves researchers, especially those working in teams, who lack access to reliable collaborative cyberinfrastructure for managing, sharing, publishing, and archiving data.

1 SEAD 2.0 Project Spaces — Coming Soon!

In parallel with the operation of the current SEAD Project Spaces platform, SEAD continues to advance its next generation infrastructure for managing and publishing data: SEAD 2.0. Our team has made substantial progress in the last six months in moving 2.0 Project Spaces from an early alpha release to a functional beta version that can be used to upload, organize, annotate, and publish data. Early adopters have access to the following key functionality in SEAD 2.0 beta version:

- On-demand creation of new Project Spaces.
- A Staging Area that guides researchers through a process of preparing data for publication where data collections from their active Project Spaces are curated, packaged, assigned a permanent identifier, e.g., Digital Object Identifier (DOI), matched with a trusted long-term repository (including ICPSR), and registered with a catalog, e.g. DataONE. In the Staging Area, groups can review their data, make any necessary adjustments, select the appropriate repository, and then proceed to submitting the data for publication.
- Hierarchical Data, including the ability to have nested folders in datasets, as well as the ability to publish hierarchical datasets.
- Improved usability in the navigation and branding of Project Spaces.
- Secure communication using https.



SEAD has released beta version 2.0, which includes updating Project Spaces, and within that, Publication Services.

2 SEAD 2.0 Publication Services — Already Available!

SEAD updated its current Project Spaces platform to support publication through the new 2.0 Publication Services. Current users of SEAD Project Spaces can click on the “Submit for Publication” button to initiate the request for publication of a collection and its associated datasets. SEAD takes care of packaging, assigning a DOI, sending your data to a long-term repository, and registering it with an appropriate catalog. This improvement also includes the end-to-end integration of the ORCID and Google+ user profiles in SEAD, performance and scalability enhancements, and cybersecurity upgrades.

3 New Groups of Researchers Using SEAD

A number of new groups have recently begun using SEAD services. Some are currently participating in beta testing of the SEAD 2.0 platform. Many of these groups have explored other options for data management, such as Figshare and the Open Science Framework, and have found SEAD’s combination of active Project Spaces and the ability to publish to multiple repositories compelling. These groups include:

- *National Mindset Study (NMS)*
Recently highlighted as part of President Obama’s “Educate to Innovate” campaign, NMS will field the largest-ever randomized controlled study of “growth mindset” interventions, which, in smaller studies, appeared to significantly improve academic performance. NMS has made an initial decision to use SEAD during their active collaboration to allow their distributed team to work on anonymized data from a random sample of over 100 high schools nationwide with the intent to publish their data in ICPSR.
- *Tropical Pacific Observing System (TPOS 2020)*
The TPOS 2020 project reached out to SEAD to explore the active collaboration capabilities of SEAD’s Project Spaces for its 250+ researchers located in different parts of the world. TPOS was established

in January of 2014 to oversee the transition of the Tropical Pacific Observing System, which has revolutionized observational understanding of the tropical Pacific and El Niño-Southern Oscillation (ENSO) dynamics, into a more robust, integrated, and sustainable observing system. The group plans to use SEAD’s Project Spaces for their teams of international scientists to collaborate on multiple projects that advance TPOS to meet both scientific and societal needs. SEAD’s out-of-the-box capabilities, combined with the potential to publish data to multiple repositories made SEAD a compelling choice for this group.

- *Jamaica Returned Migrants Study (CM-JRMS)*
Caribbean Migrations’ foundational Jamaica Returned Migrants Study (CM-JRMS) is the first broad research initiative developed to explore the health and well-being of people from the Caribbean and Caribbean Diaspora. Caribbean Migrations’ team is using SEAD 1.5 Project Spaces during their active phase of processing and analyzing data prior to depositing them in ICPSR for further archiving and dissemination. SEAD’s advanced functionality for creating custom user roles and permissions has made SEAD a valuable resource for this group.
- *CanopyDB*
SEAD is being used to capture and annotate an at-risk-of-being-lost collection of data and tools: Canopy Science Data and Applications (CanopyDB). The CanopyDB applications were developed with support from the National Science Foundation at Evergreen State College between 1992 and 2007 to address the data and visualization needs of forest canopy researchers. The data and cyberinfrastructure include multiple relational databases, a custom database generation tool used to create the databases, an image repository, a bibliographic and research reference tool, and desktop and web tools to visualize the data.

Using an agile approach and leveraging SEAD-hosted data services, the team of students in collaboration with faculty at Evergreen State College is organizing, cross-referencing, and making this rich collection of forestry canopy observational data, metadata, images, documentation, software, and web information accessible for reuse. Since January 2016, the group has successfully overcome numerous challenges, including the task of preserving Canopy DB databases and creating their various conversions from obsolete database formats to current open source platforms (e.g. MySQL). The CanopyDB Project Space in SEAD already contains approximately 150 documents, 2,000 images, and 1,700 other types of files such as the associated software, documentation, projects records, and data related to multiple studies. These data have been organized in a user-friendly format, with meaningful relationships and metadata established between the files and collections. Later this year, the cross-project team plans to use SEAD Publication Services to publish initial versions of the data. Further work is anticipated to annotate the collections and explore options for storing executable copies of the databases to be downloaded or operated as interactive sessions in a Cloud such as the National Data Service Labs. This important work on preserving the CanopyDB data and tools contributes to the development of best practices for preserving scientific outputs.

4 New Partner Repositories
In addition to the IDEALS repository at the University of Illinois, Urbana-Champaign and the IU SEAD Cloud repository at Indiana University, SEAD recently added three others to its repository network:

openICPSR: ICPSR has implemented an interface to SEAD as part of its openICPSR data publishing system. This publishing option is expected to be operational by the time SEAD 2.0 version is released later this year. Several research groups interested in publishing to openICPSR are among the beta testers already using Project Spaces in SEAD 2.0 beta version.

National Data Service (NDS) Prototype: Work is in progress to package the core of SEAD's repository implementation (i.e. the software that receives SEAD publication requests, packages and stores them, generates DOIs, and implements DOI landing pages for data retrieval) as a service that could be deployed to Cloud systems such as the NDS's Labs infrastructure to support the large collections (1GB to ~1TB per publication) that are typical for some groups using SEAD.

Additional Storage at ARC-TS: SEAD is working with the Advanced Research Computing Technology Services (ARC-TS) to enable University of Michigan researchers to publish data through SEAD to UM ARC-TS resources using SEAD's lightweight and scalable reference repository software. It generates a DOI, packages data into an efficient standards-based archive, and provides web-based access to published datasets ranging from a few files to over a hundred thousand files and approaching a TB in total size.

5 SEAD-enabled Data Management Plan (DMP)
“EAGER: Connecting Communities Through Data, Visualizations, and Decisions,”
submitted by Lach et. al. to NSF/CISE, is the first project to work with SEAD's new Data Management Plan guidance. The project, which will apply visualization in support of decision-making related to, for example, the local impacts of climate change, and would produce visualizations linked through metadata in SEAD to documentation, software, and source data.

By Anna Ovchinnikova



Connect with SEAD

Contact SEAD about setting up a Project Space for your group or visit sead-data.net to try out Project Space features in the SEAD Demo Space.

ICPSR EXPANDS ITS GIS DATA

While ICPSR has archived Geographic Information Systems (GIS) files for some time, we are building further capacity to archive and disseminate GIS collections.

ICPSR is accepting deposits with GIS materials. We are accepting Geographic Information Systems (GIS) deposits, whether they are geodatabase, shapefiles, geoJSON, or qGIS — vector or raster. While ICPSR has archived GIS files for some time, [including](#) with the [National Archive of Criminal Justice Data](#) (NACJD), we are building further capacity to archive and disseminate GIS collections.

Why GIS?

GIS is becoming more prevalent in the data world. There are many leading social science investigators in economics, political science, sociology, geography, criminology, public health and demography who are creating spatial datasets, either in addition to or integrated with traditional survey data. One of the strengths of the ICPSR collection, in addition to several ongoing national or international surveys, lies in soliciting high caliber investigator-led research focused more discretely on specific communities or regions. Adding spatial data curation is a natural extension of this strength in small area studies because it takes advantage of the organization's history of working with principal investigators and improving data documentation, and adds a curation skill set that will be increasingly important for the social sciences.

ICPSR has developed guidelines* for reviewing, curating, and disseminating GIS materials. As with

quantitative and qualitative collections, these guidelines include data reviews to ensure that collections are complete and self-explanatory. Reviews also check for disclosure concerns. If inconsistencies, errors, or disclosure issues are found, we discuss these with the producers of the data and attempt to accurately correct them.

In addition to data reviews, we create or enhance study-level and file-level metadata and generate multiple dissemination formats to meet users needs. The GIS materials are released as geodatabase, shapefiles, geoJSON (an open source and possible preservation format), as well as a plain text/non-GIS format.

What are some highlights of ICPSR's GIS data offerings?

- Historical Urban Ecological Data, 1830-1930 ([ICPSR 35617](#))
- ICPSR 36353 Historical Transportation of Navigable Rivers, Canals, and Railroads in the United States (not yet available for download)

*The GIS guidelines were developed based on 'APPENDIX D: Summary of Key Questions for Repository' from the [GeoMAPP Best Practices for Archival Processing for Geospatial Datasets](#) final report.

By Kathryn Frania and Jared Lyle, with special thanks to Ken Sylvester.

The GIS materials are released as geodatabase, shapefiles, geoJSON (an open source and possible preservation format), as well as a plain text/non-GIS format.

NEW PARTNERSHIP SUPPORTS DISABILITY, REHAB RESEARCH

The scientific communities conducting disability and rehabilitation research generally lack the infrastructure to support data sharing. With input from CLDR, this new project will leverage ICPSR's expertise in building data repository infrastructure to solve this problem.



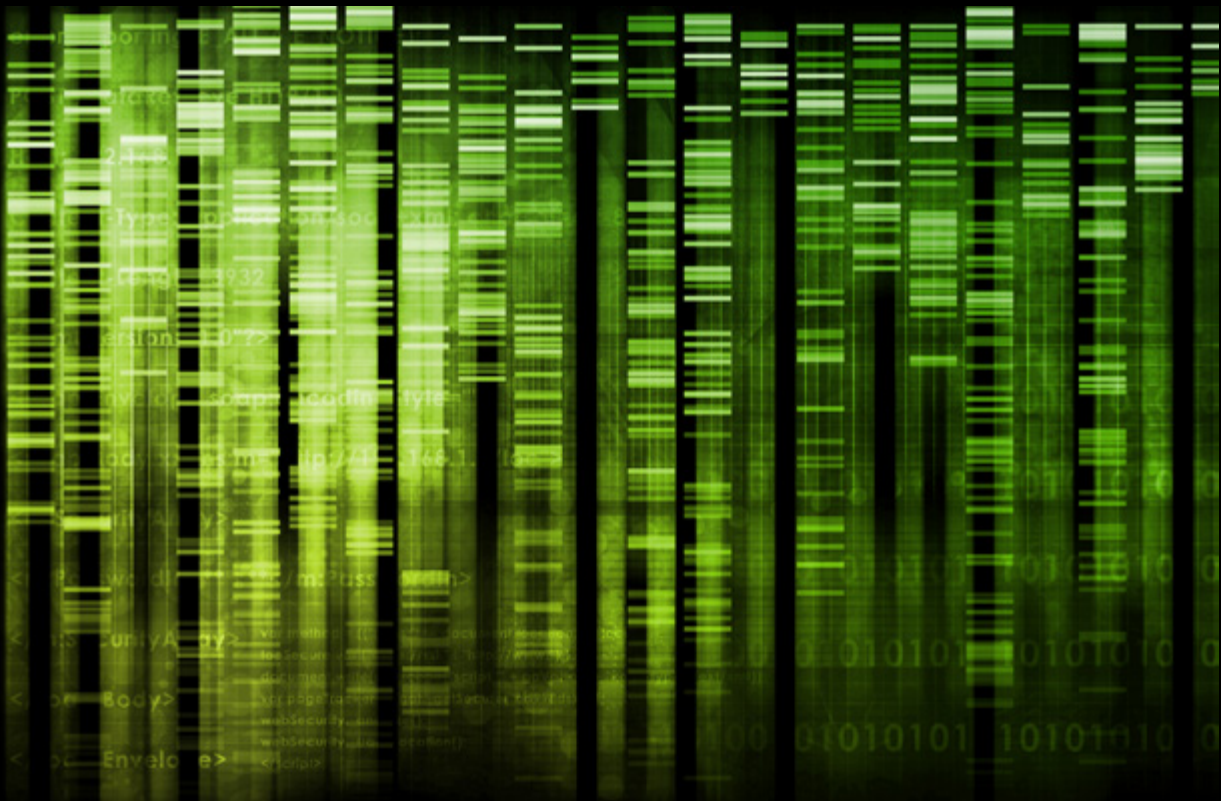
Earlier this year, ICPSR's Archive of Data on Disability to Enable Policy and Research (ADDEP) announced an exciting new project in collaboration with the Center for Large Data Research and Data Sharing in Rehabilitation (CLDR) at the University of Texas Medical Branch in Galveston to build a data archive that will significantly support disability and rehabilitation research.

The scientific communities conducting disability and rehabilitation research generally lack the infrastructure to support data sharing. With input from CLDR, this new project will leverage ICPSR's expertise in building data repository infrastructure to solve this problem. Soon, ICPSR will launch a new website to provide access to disability and rehabilitation data. ADDEP will bring together existing disability data resources already available at ICPSR with newly acquired data from rehabilitation medicine and related areas. The project will also develop webinars, workshops, presentations, and other training tailored to fit the needs of the disability and rehabilitation research communities to strengthen and support the data-sharing infrastructure.

The new project is funded by the NIH - National Institute of Child Health and Human Development, in partnership with the National Center for Medical Rehabilitation Research, the National Institute for Neurological Disorders and Stroke, and the National Institute of Biomedical Imaging and Bioengineering.

For more information about this project, please contact [Alison Stroud](#), the Archive Manager for ADDEP.

By Alison Stroud



ICPSR'S REVOLUTION WITHIN

As the data revolution transforms the research landscape all around us, ICPSR is well-positioned for a new era in research data management. At IASSIST 2016 in Bergen, Norway, conference attendees got a first look at Archonnex, a Digital Asset Management System that ICPSR is engineering to facilitate a transition to newer technology, meeting core and emerging business needs of the organization and the industry. Archonnex is emerging as a digital technology platform that leverages ICPSR's expertise and open source technologies that are proven and well supported by strong Open Source communities. We're excited about these innovations, which will enrich all points of the data life cycle, from research data collection and management to publication and re-use of the data. Stay tuned!

ICPSR, ELSEVIER ANNOUNCE DATA-LITERATURE LINKING

ICPSR's Bibliography of Data-related Literature plays a key role in reciprocal linking between research articles at Elsevier and the underlying data archived at ICPSR.

ICPSR recently announced a new partnership with [Elsevier](#), owner of [ScienceDirect](#), a website that provides a large database of peer-reviewed articles and publications. Readers can now link directly to ICPSR data from ScienceDirect articles that utilize studies archived at ICPSR.

To enable this, ICPSR now allows an Elsevier script to instantly check the [ICPSR Bibliography of Data-related Literature](#) to determine if the Bibliography has associated a given ScienceDirect article with ICPSR data. If so, a linked ICPSR logo appears on the ScienceDirect article page, and readers can click it to access the ICPSR data discussed in the article.

Research articles on ScienceDirect can also be accessed directly from within the Bibliography's database as well as from individual ICPSR study description pages. This two-way linkage encourages transparency, access, and credit to the originating data creators. And, it introduces a larger audience to the data collections they can find at ICPSR, encouraging additional research discovery.

For those reasons, linking social and behavioral science literature to the underlying data is important. But because these linkages are not always obvious, due to inconsistencies and incompleteness in data citing practices, there is not a perfect way to automate connecting the literature with the data analyzed in it. Thus no complete, easily accessible web of literature-data links exists.

To fill that gap, for 16 years, ICPSR has invested in finding these linkages by soliciting PIs for their related publications upon depositing their data, by asking data users to let us know when they author publications that utilize ICPSR data, and by searching the peer-reviewed literature sources for signs of data use. ICPSR accumulates these citations in the ICPSR Bibliography of Data-related Literature, a searchable database of over 70,000 citations. The Bibliography is unique in its breadth and depth, and is sought after by organizations like Elsevier that want to utilize the valuable linkages it contains.



(Creatas Images/Thinkstock)

"Providing links between research data and the articles based on analyses of those data is crucial to support the efforts related to both data sharing and the transparency around conducting research in general. These direct links offer a way to demonstrate the impact of research data for both the Principal Investigator and the agency funding the research. ICPSR is pleased to be working with Elsevier to establish reciprocal linking with ScienceDirect," said Linda Detterman, Membership & Marketing Director, ICPSR.

Elsevier anticipates that over 400 journals publishing in ScienceDirect will be linking to ICPSR. Dr. Richard S.J.Tol, the editor-in-chief of one of those journals, [Energy Economics](#), states that "Data sharing has obvious advantages for replication and for stimulating further research. More subtly, linking hitherto disjoint data may reveal new and unexpected patterns and may allow previously untestable hypotheses to be tested."

Wouter Haak, VP of Research Data Management Solutions at Elsevier added, "Data linking is an essential step for research data to be better discoverable. We are very happy to be working with ICPSR to achieve this for behavioral and social science data. Both the article itself and the underlying data are invaluable for showcasing research output. It also ensures that authors of the data and articles can get the credit they deserve."

By Elizabeth Moss

Examples of articles with reciprocal ICPSR- ScienceDirect linking

ICPSR study used: Flint [Michigan] Adolescent Study (FAS): A Longitudinal Study of School Dropout and Substance Use, 1994-1997

In: Stephanie H. Cook; Justin E. Heinze; Alison L. Miller; Marc A. Zimmerman, '[Transitions in friendship attachment during adolescence are associated with developmental trajectories of depression through adulthood](#)', Journal of Adolescent Health, Volume 58, March 2016, Issue 3, Pages 260-266, ISSN 1054-139X, <http://dx.doi.org/10.1016/j.jadohealth.2015.10.252>.

ICPSR studies used: National Corrections Reporting Program, 2000-2012

In: Jason Rydberg; Kyleigh Clark, '[Variation in the incarceration length-recidivism dose-response relationship](#)', Journal of Criminal Justice, Volume 46, September 2016, Pages 118-128, ISSN 0037-2352, <http://dx.doi.org/10.1016/j.jcrimjus.2016.04.002>.

Note: When readers access the ScienceDirect article pages for the articles listed above, a banner that shows "Data for this Article," will include ICPSR's logo and a link back to an ICPSR Citation page.

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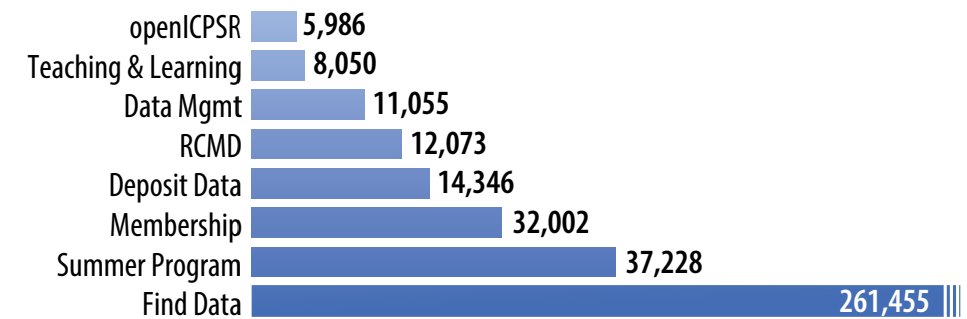
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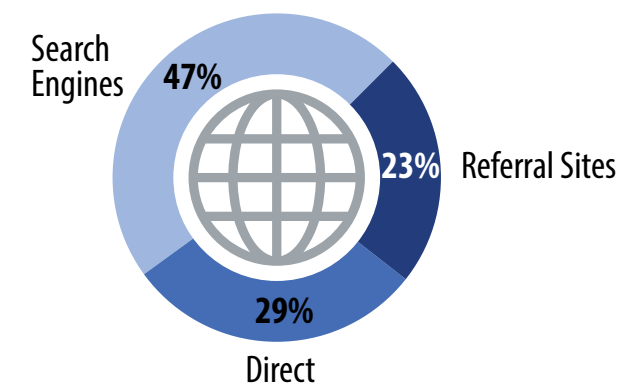


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ICPSR is a center within the
[Institute for Social Research](http://www.isr.umich.edu)
at the [University of Michigan](http://www.umich.edu).

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