ICPSR

The Realities of Data Sharing

Research Standards in Criminology

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Agenda

Introduction to ICPSR
NACJD, the National Archive of Criminal Justice Data
Resources for journals
Restricted data
    Access modalities
    Curation
Other resources to improve criminal justice research
    Bibliography
    Data Management Plans
    Consent Statement Guidance
    Pre-registration

ICPSR

Founded in 1962 by 22 universities, now consortium of ~800 institutions world-wide

Focus on social and behavioral science data, broadly defined

Current holdings

- 15,000 studies, quarter million files
- 1700 are *restricted studies*, almost always to protect confidentiality
- Bibliography of Data-related Literature with 92,000 citations

Data Stewardship: high quality, curated data in user-friendly formats

Data Protection: multiple strategies for safe research using sensitive data

Thematic Collections

Community
- Nat'l Archive of Data on Arts and Culture
- Open Data Flint

Criminal Justice
- Nat'l Archive of Criminal Justice Data
- Firearm Safety Among Children and Teens

Demography
- Nat'l Archive of Computerized Data on Aging
- Data Sharing for Demographic Research
- Resource Center for Minority Data
- US Census Data Repository
- ResearchDataGov

Education
- Child and Family Data Archive
- Civic Learning, Engagement and Action Data Sharing
- Education Research Data Sharing Initiative
- Measures of Effective Teaching
- NCAA Student-Athlete Experiences

Health/Wellness
- Archive of Data on Disability to Enable Policy
- COVID-19 Data Repository
- Health and Medical Care Archive
- Nat'l Addiction and HIV Data Archive Program

At-Risk Government Data Data Lumos

The National Archive of Criminal Justice Data

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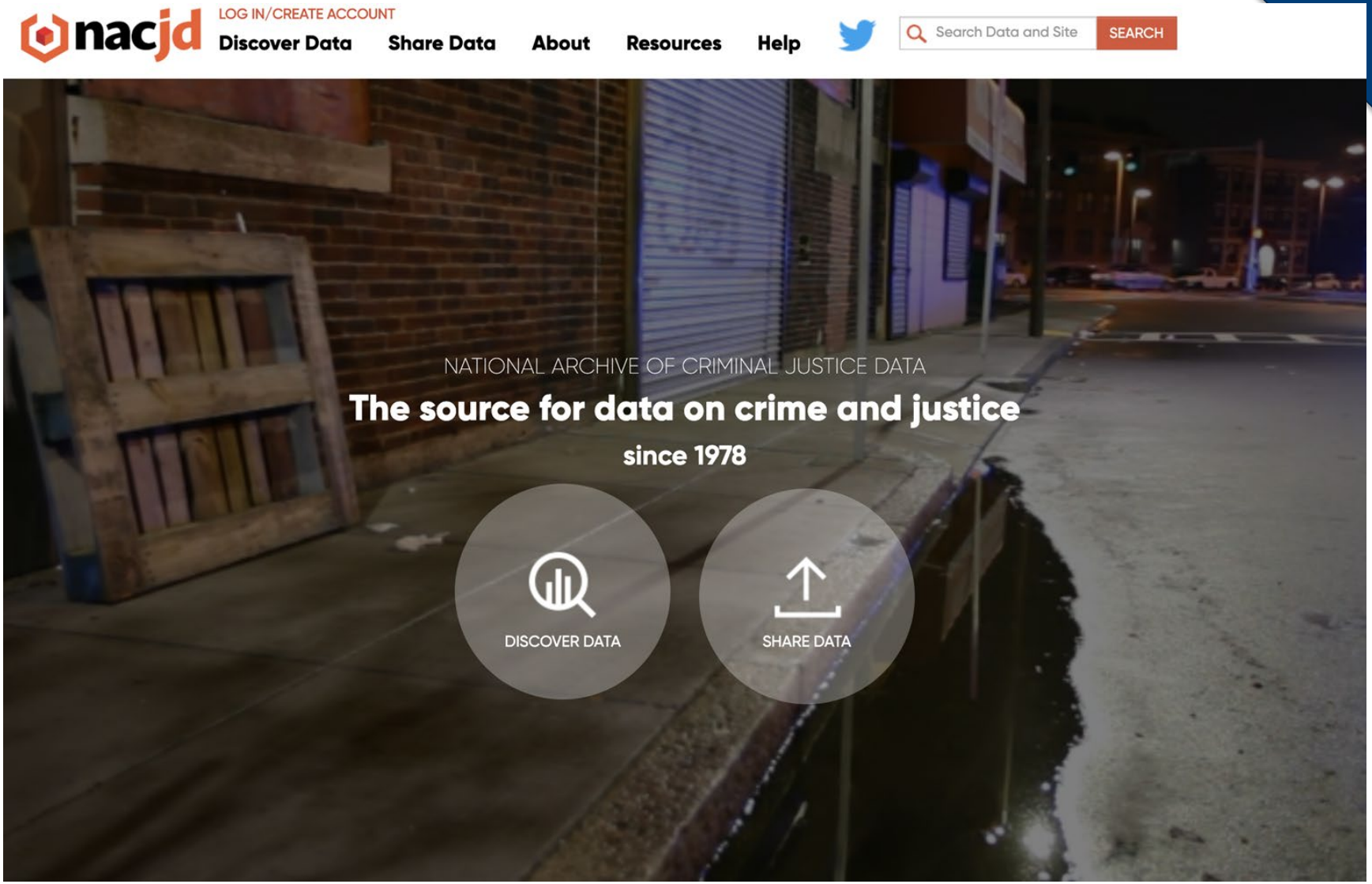
About NACJD

Mission	To support research on crime and justice by facilitating the discovery and use of data
Audience	Criminal justice students and researchers, news organizations, other non-academic research institutions
Funding	Bureau of Justice Statistics (**BJS**) National Institute of Justice (**NIJ**) Office of Juvenile Justice and Delinquency Prevention (**OJJDP**)



https://www.icpsr.umich.edu/web/pages/NACJD/index.html

NACJD by the Numbers

Over 10,322 research datasets available for analysis

From January 1, 2020 - June 30, 2020:

- NACJD released 22 NIJ, 10 BJS, and 5 OJJDP studies
- 16,944 unique NACJD data users downloaded 252,640 data or document files

About Our Data

- Official U.S. crime data
- Grantee data collections

  NIJ and OJJDP mandate to share data with NACJD

- Topical areas:

  Policing
  Corrections
  Court case processing
  Juvenile delinquency
  Guns and other weapons
  Recidivism
  Violence against women
  Human trafficking and sex crimes
  Drugs and alcohol
  And more

Popular Data Collections

- National Crime Victimization Survey (NCVS)
- Uniform Crime Reporting Program (UCR) and National Incident-Based Reporting System (NIBRS)
- Federal Justice Statistics Program (FJSP)
- National Corrections Reporting Program (NCRP)
- National Intimate Partner and Sexual Violence Survey (NISVS)
- Project on Human Development in Chicago Neighborhoods (PHDCN)
- Pittsburgh Youth Study (PYS)

Accessing NACJD Data

- NACJD data are available without charge
- Many NACJD studies (over 1,100) are restricted access
- Restricted access is offered via secure download, Virtual Data Encalve (VDE), Physical Data Enclave (PDE)
- Prospective data users can navigate to the application by visiting the study home page of the data they are interested in

Research Resources

Learning Guides

- Replicating Results from the National Crime Victimization Survey
- Law Enforcement Agency Identifiers Crosswalk

Resource Guides

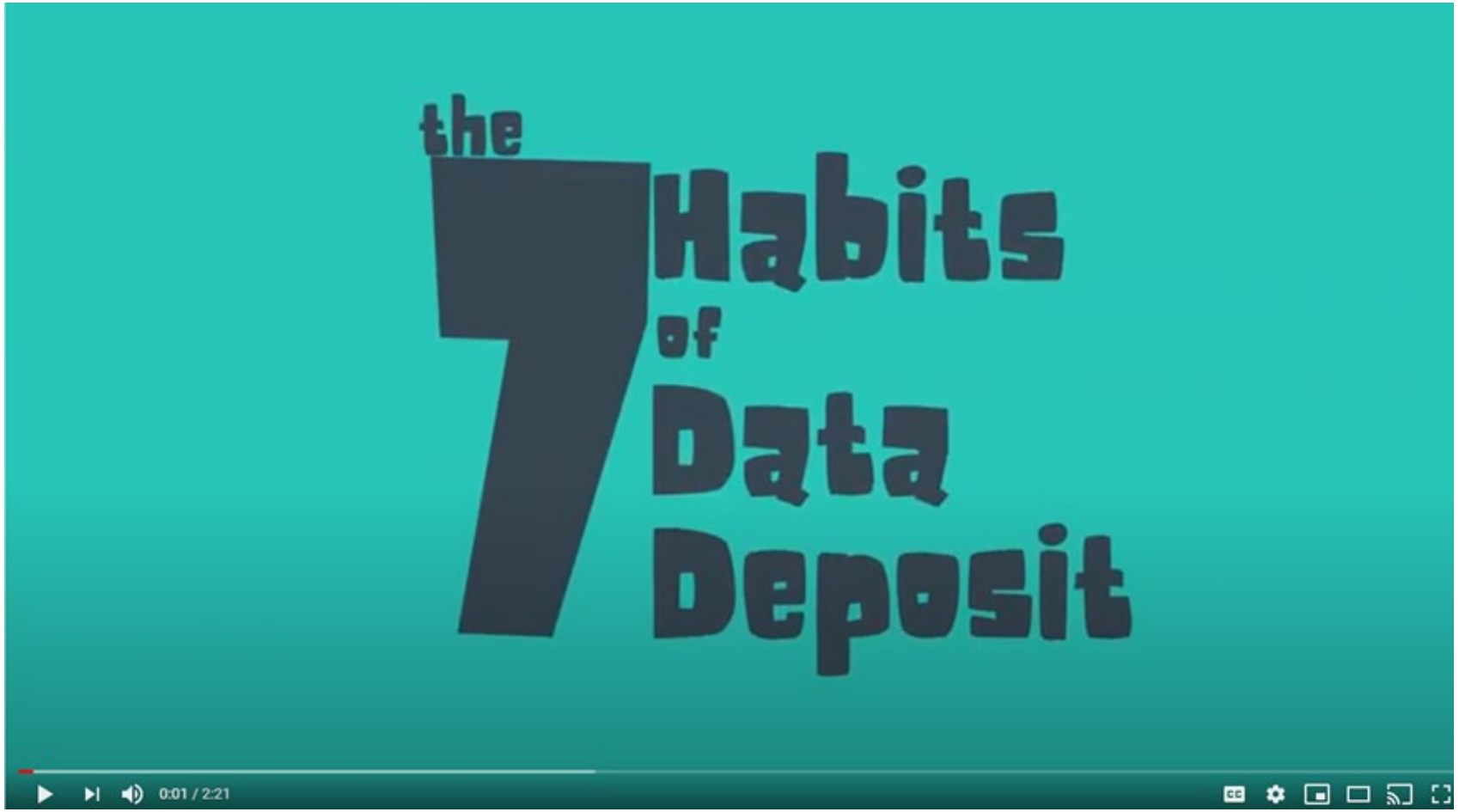
- Available for several popular data collections, including UCR, NIBRS, NCRP, NCVS, and FJSP
- Includes information needed to properly use and understand data

https://www.icpsr.umich.edu/web/pages/NACJD/learning-data-guides.html

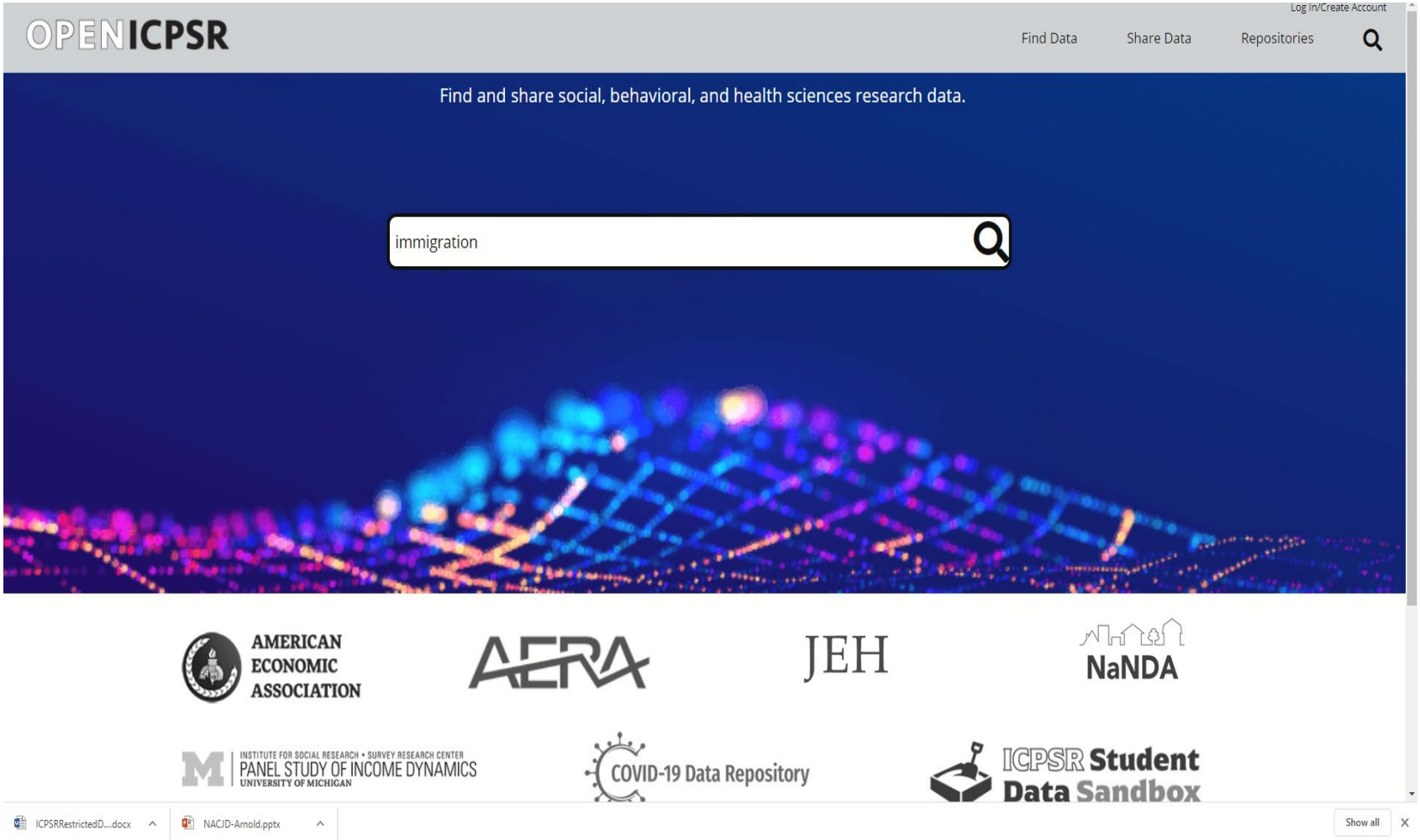
(Data) sharing is caring

- Reproducibility
- Respect for study participants
- Minimize burden
- Increase impact
- Incremental knowledge building
- Trust and credibility

Sharing data



Resources for Journals



OpenICPSR: Data for reproducibility

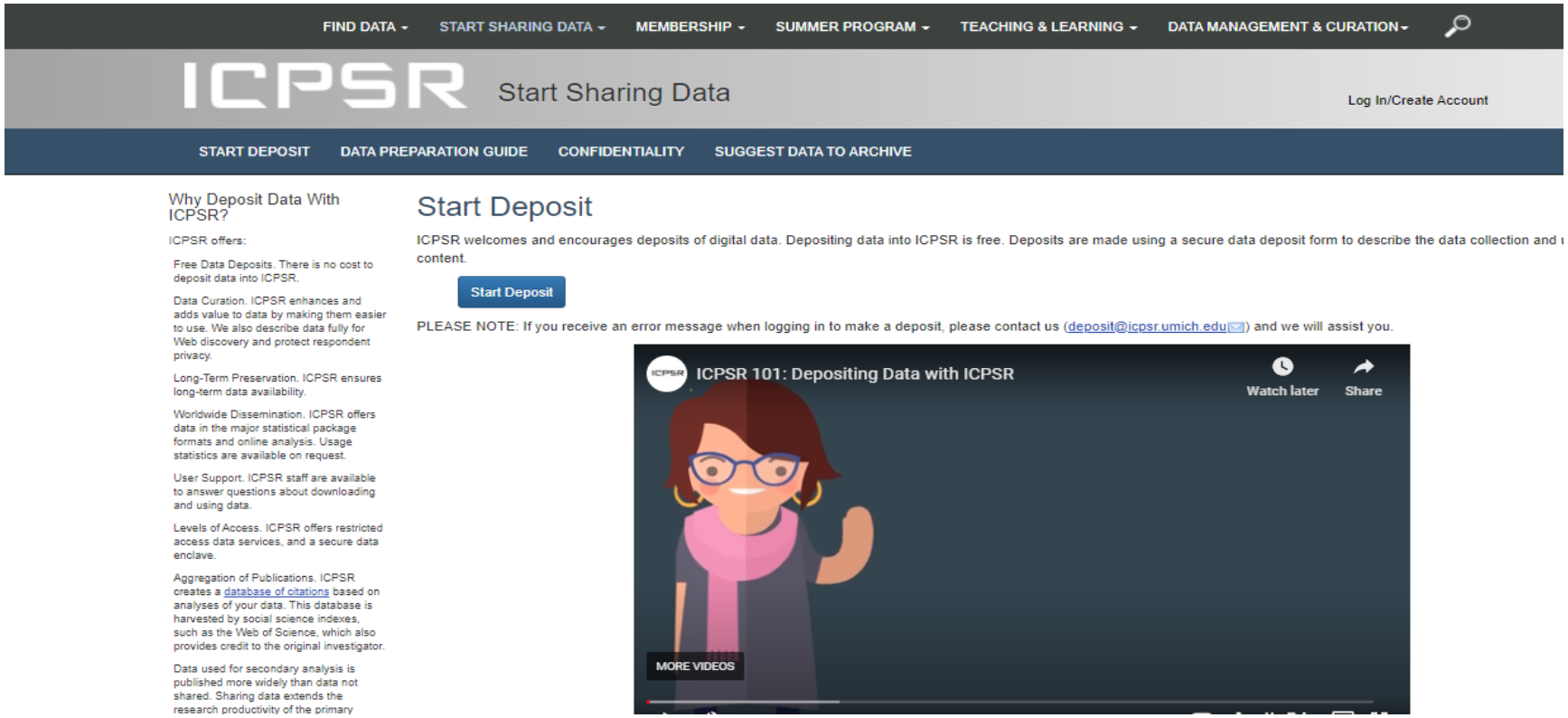
Any researcher can deposit data and receive DOI immediately

- Available to share with journal prior to publication
- Data are not curated, but they are checked for confidentiality
- Data can be restricted or embargoed

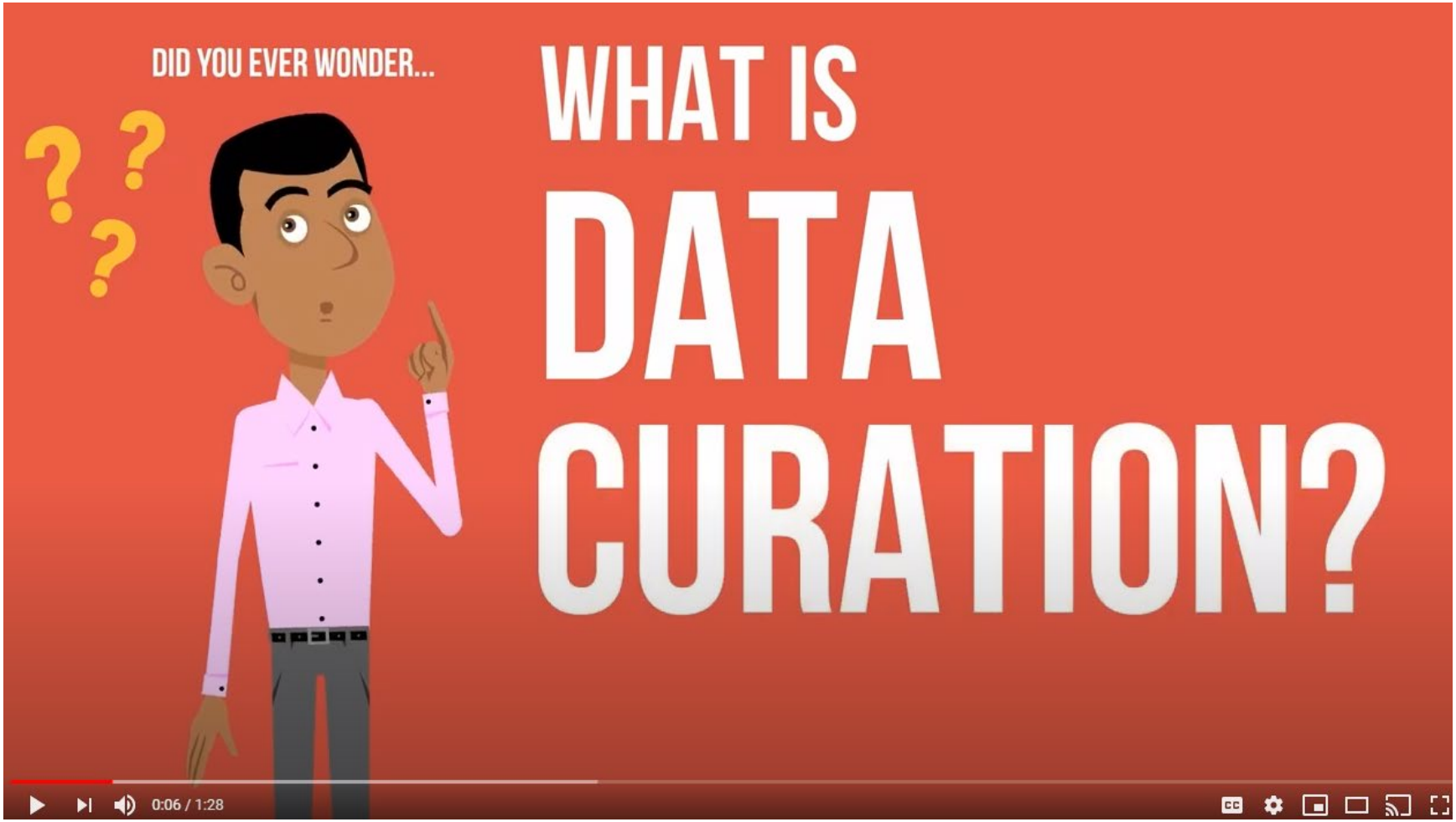
Dedicated journal repositories

- Journal-branded
- Journal-specific criteria
- Work flow allows journal to approve deposit prior to data publication

Depositing data for curation:
Data for re-use



Data quality matters



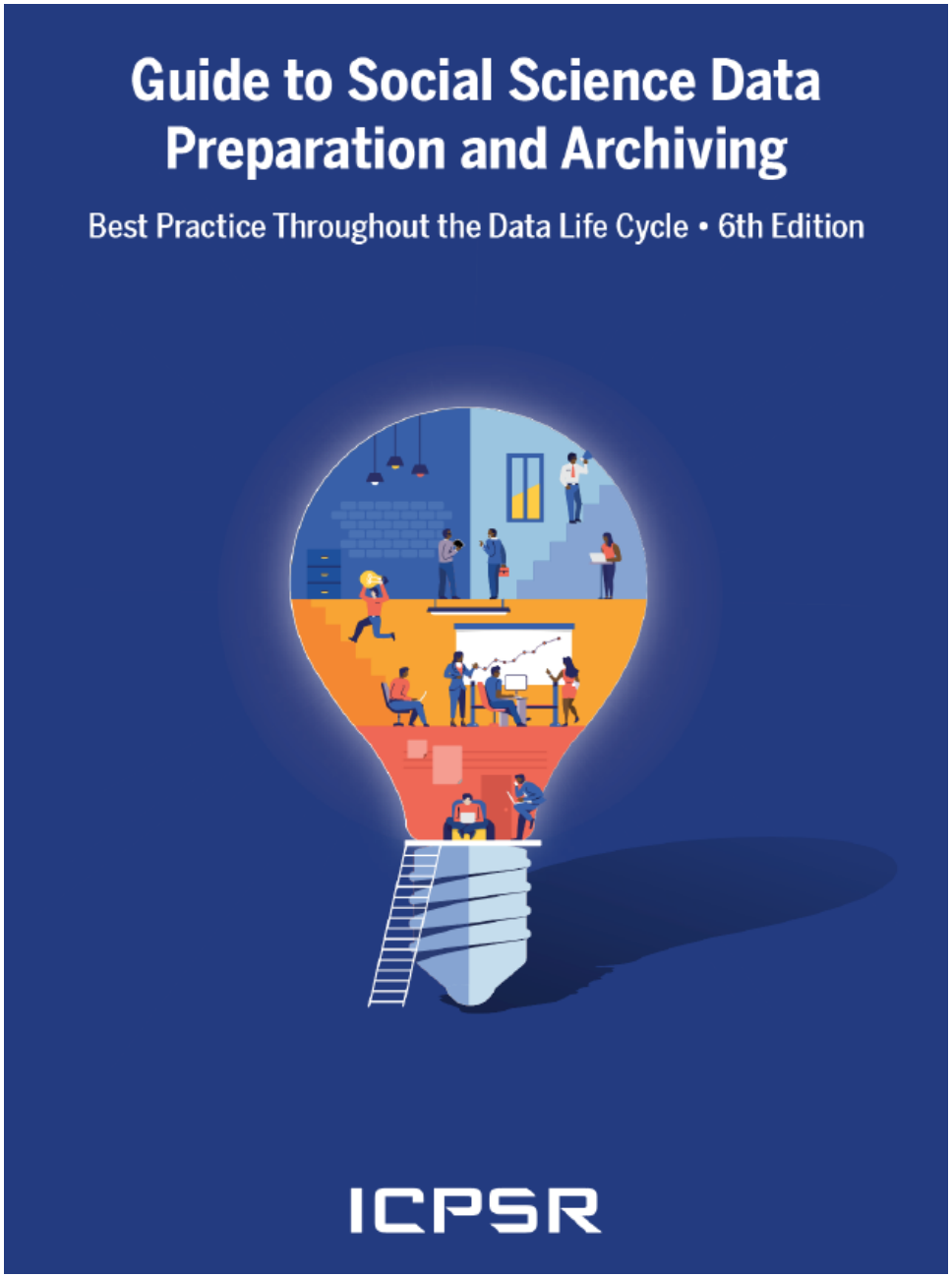
I can’t share. My data’s private

Why is the data private?

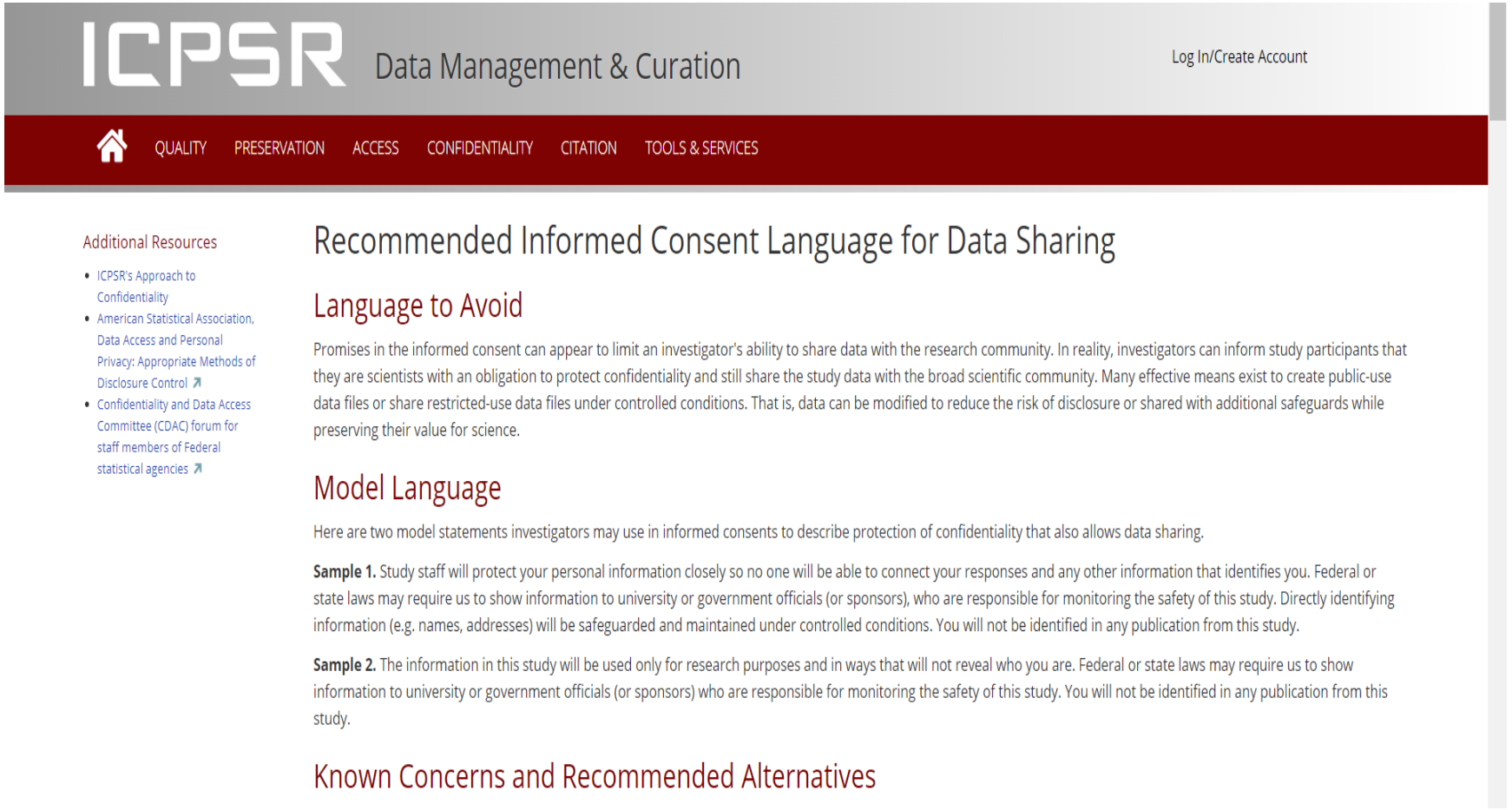
- Privately owned by third party, governed by NDA and/or RDUA
- Researcher promised privacy to respondent/participant and/or IRB
- Data cover sensitive topic

Solutions

- Consent statements and RDUAs that permit sharing for reproducibility and research
- Share code, process for obtaining access
- Mask the data
- Restrict access
  - IRBs will often allow data sharing with restricted access, even when that was not explicitly permitted in research protocol


Guide to Social Science Data Preparation and Archiving
Best Practice Throughout the Data Life Cycle • 6th Edition
ICPSR

Recommended consent language



https://www.icpsr.umich.edu/icpsrweb/content/datamanagement/confidentiality/conf-language.html

Consent statements and sharing

Temptation is to promise that no one else will see the data

- Or even that the data will be destroyed
  - This is the direction GDPR has taken

Promise instead to create the most scientific impact while protecting confidentiality

- Separate and encrypt Personally Identifiable Information (PII)
- Restrict use to scientific and evidence-building purposes
- Never reveal information about individual or share with those who try to use to re-identify individuals

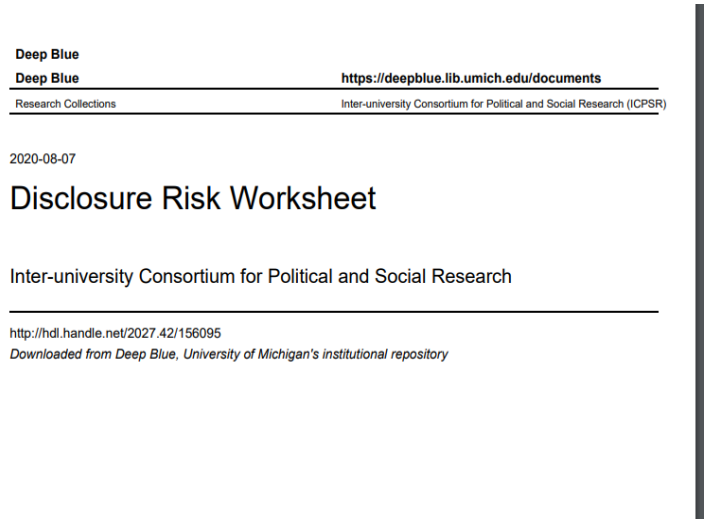
Safe data

Curation includes steps to create safe data

- Consistent with fitness for use

Criteria for evaluating data safety

- Living persons
- Vulnerable populations
- Expectations of privacy
- Data type and level
- Unit of analysis
- Sampling
- Longitudinal
- Availability
- Social relationships
- Geography
- Date specificity
- Sensitivity
- Small or distinct populations


Deep Blue
Deep Blue https://deepblue.lib.umich.edu/documents
Research Collections Inter-university Consortium for Political and Social Research (ICPSR)

2020-08-07

Disclosure Risk Worksheet

Inter-university Consortium for Political and Social Research

http://hdl.handle.net/2027.42/156095
Downloaded from Deep Blue, University of Michigan's institutional repository

Methods for “anonymization”

- Aggregation
- Suppression
- Swapping
- Perturbation/noise infusion

Safe places

Secure online analysis

- Expensive to setup, but easy to access
- Requires confidence in automatic disclosure checks

Encrypted downloads

- Secure, local computing environments
- Training
- Restricted data use agreements
- Researchers do own disclosure review

Safe places

Virtual Data Enclave

- Secure, controlled computing environment
- Training
- Restricted data use agreements
- Third party disclosure review

Physical data enclave

- Secure, controlled physical and computing environment
- Training
- Restricted data use agreements
- Third party disclosure review

New resource!

ICPSR Student Data Sandbox

A special place for students to deposit their data for use by other students!

ICPSR

Data Jeff is happy to take your questions