



Transparency, reproducibility, and replicability New initiatives at ICPSR

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The initiatives described here are supported by the National Science Foundation (1744065 and 1525662) and the Sloan Foundation.

Promoting transparency and reproducibility

➤ What is ICPSR?

- Preserving and accessing shared data and data-related content
- Journal repositories and journal-related deposits

➤ Three new initiatives

- LinkageLibrary
- SOMAR
- Researcher passport

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
 - 10,000 studies, quarter million files
 - 1500 are *restricted studies*, almost always to protect confidentiality
 - Bibliography of Data-related Literature with 75,000 citations
- Approximately 60,000 active MyData (“shopping cart”) accounts
- Thematic collections of data about addiction and HIV, aging, arts and culture, child care and early education, criminal justice, demography, health and medical care, and minorities

Preserving and accessing shared data and data-related content

- Make data sharing feasible
 - ICPSR's General Archive
 - Anyone can deposit
 - Curated and preserved
 - Guidance over data life cycle
 - Templates for consent, IRB, DMP consistent with transparent and reproducible access
- Incentivize data sharing
 - Standard citation
 - Bibliography
 - Usage statistics

Data in the wild

- Organic or non-designed data creates new challenges for reproducibility and transparency
- Data changes in real time
 - Reproducibility requires snapshots, versioning
- No survey instrument or documentation of sampling to provide metadata to assist in re-use or discovery
 - Or even informed use of data the first time
 - Requires development of standards (extending DDI)
 - Citizen scientists necessary for transparency and reproducibility

Data linkage challenges

- Linked data present challenges for both confidentiality and reproducibility
 - Linkage more accurate with more detailed information
 - Need standards for safe, ethical ways to enhance data with new linkages
 - Linked data easier to re-identify, even after removing unique identifiers
 - Need safe places to analyze linked data
 - Linkage strategies introduce differences in datasets that are often not well documented



LINKAGE LIBRARY

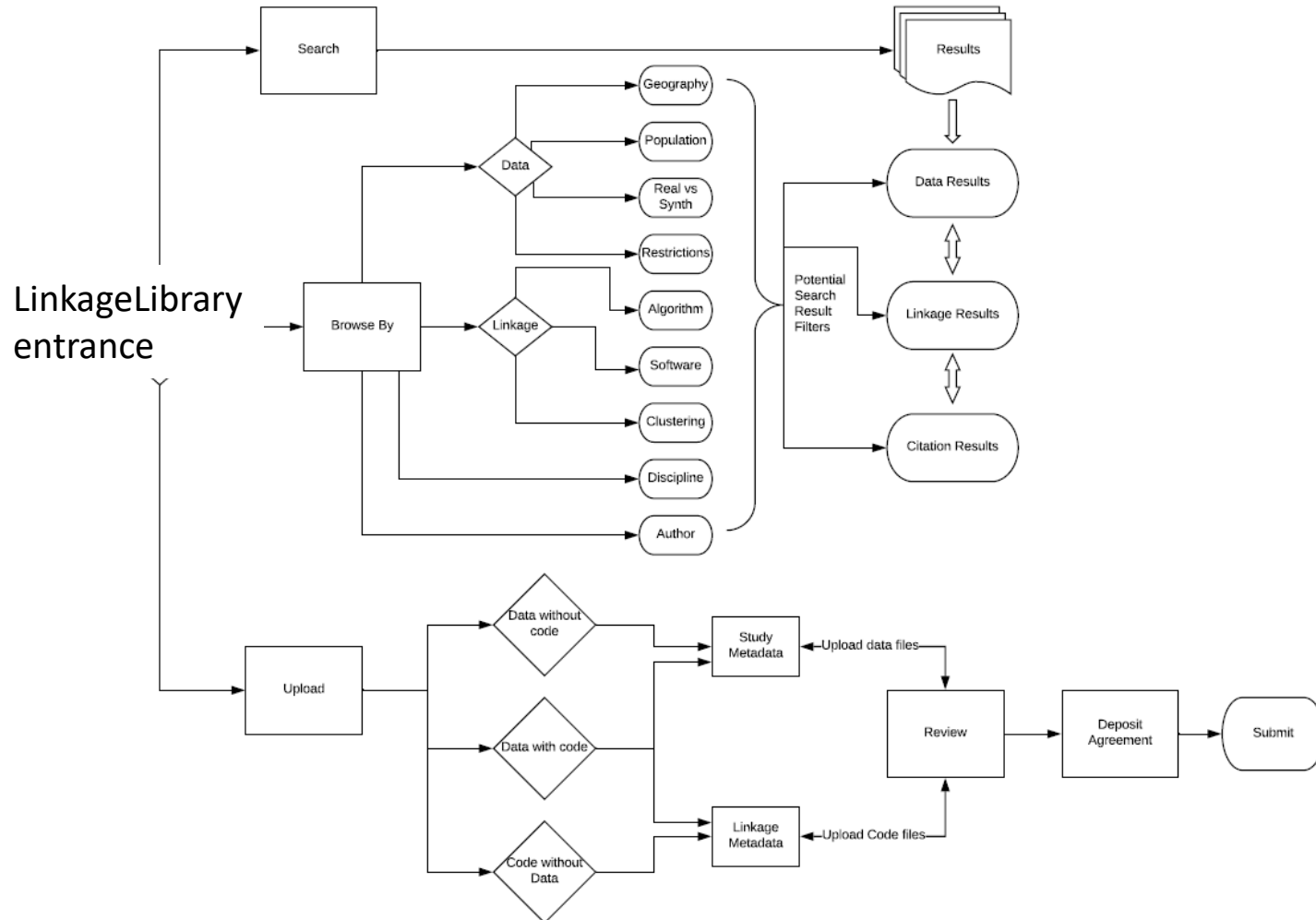
Maintaining datasets to support the data linkage community

The logo for LINKAGE LIBRARY features the text in a bold, blue, sans-serif font. Above the text is a light blue arc with a yellow dot at its left end and a blue dot at its right end, suggesting a connection or link.

LINKAGE LIBRARY

- Encourage researchers to share linked (or linkable) data, and linkage strategies
 - Algorithms, code
- Compare approaches across projects, datasets, disciplines
 - Improve linkage practices
 - Improve transparency
- Coming this fall
 - Looking for beta testers now!

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Project Citation

Kiser, S. (2016). Action Control of Affordances in an Implicitly Cued Simon Task (Data set). Inter-university Consortium for Political and Social Research (distributor). <https://doi.org/10.3886/E100365V1>

Persistent URL: <http://doi.org/10.3886/E100365V1>

Project Description

Summary: The present study used covert means to implicitly cue responses in a Simon Task in order to investigate how participants anticipate and resolve conflicts between relevant and irrelevant stimulus information. Participants were randomly assigned to either a Non-predictive or a Predictive Simon Task in which implicit cues predicted the correct response. Results showed that, despite an overall high level of accuracy between the two tasks, when implicit cues were present the average Simon Effect was significantly smaller compared to when cues were absent. Group mean differences in Simon effect scores support that implicit priming mechanisms modulate response selection and action monitoring when conveying information about response outcomes. These results demonstrate that knowledge learned implicitly can be used to resolve conflict between relevant and irrelevant stimulus information in order to avoid non-optimal behavior, providing evidence for the role of implicit learning in action control of response affordances.

Scope of Project

Subject Terms: [Implicit Learning](#), [Response Inhibition](#), [Simon Effect](#)

Geographic Coverage: Washington, DC

Collection Date(s): 12/1/2010 – 12/1/2011 (Winter 2010 to Winter 2011)

Universe: Undergraduate students from the Catholic University of America ages 18 to 23 years.

Data Type(s): experimental data

Collection Notes: Mean of median reaction times for correct responses were calculated for each individual and each condition collapsed across trials for each block. Only valid cues predictive of correct responses were taken for the Predictive Simon task in order to make direct comparisons to the Non-Predictive Simon task, which contains no invalid trials.

Scope of Project

Response Rate: Fifty-three undergraduates from the Catholic University of America were recruited and received course credit to participate in the present study but only forty-eight (32 females, 16 males, aged 18 to 23 years, M = 18.92, SD = 1.22) met the inclusion criteria for the analysis.

Unit(s) of Observation: Accuracy, Mean of Median Reaction Times (MMRT), and Calculated Simon Effect scores (Incongruent Trial MMRT - Congruent Trial MMRT)

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documents,
code

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Excel File	text/csv	13 KB	09/13/2017 01:23:PM	...
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	2017	Dandu, Kartik V., Carniot, Eric T., Sanghvi, Saurin, Barocas, Soly, Eloy, Jean A. A 10-year analysis of head and neck injuries involving nonpowder firearms. <i>Otolaryngology - Head and Neck Surgery</i> ... Full Text Options: DOI WorldCat Google Scholar Export Options: RIS EndNote related studies/articles
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	1990	Williamson, D.F., Kahn, H.S., Remington, P.L., Anda, Robert F. The 10-year incidence of overweight and major weight gain in US adults. <i>Archives of Internal Medicine</i> . 150, (3), 665-672. Full Text Options: DOI WorldCat Google Scholar Export Options: RIS EndNote ICPSR's Standard Bibliography Display related studies/articles
	2014	Goodwin, R.D., Scheckner, B., Peria, L., Feldman, J.M., Taha, F., Lipsitz, J.D. A 10-year prospective study of respiratory disease and depression or anxiety in adulthood. <i>Annals of Allergy, Asthma and Immunology</i> ... Full Text Options: DOI WorldCat Google Scholar Export Options: RIS EndNote
	1996	Madans, Jennifer H., Cox, Christine S., Kleinman, Joel C., Makuc, Diane, Feldman, Jacob J., Finucane, Fanchon F., Barbano, Helen E., Comoni-Huntley, Joan 10 Years After NHANES I: Mortality Experience at Initial Followup, 1982-1994. <i>Public Health Reports</i> . 101, (5), 474-481. Full Text Options: WorldCat Google Scholar Export Options: RIS EndNote
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	1991	Williamson, D.F., Kahn, H.S., Byers, T. The 10-y incidence of obesity and major weight gain in black and white US women aged 30-55 y. <i>American Journal of Clinical Nutrition</i> . 53, (6 Suppl.), 1515S-1516S. Full Text Options: WorldCat Google Scholar

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Another thread 2

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15
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User 3 - 09/25/2017
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Contributor Name | Dec 9th 2017
This linkage is a part of the process of data integration – linking combines the input sources (census, sample surveys and administrative data) into a single population, but integration also processes this population to remove duplicates/mis-matches. The first step in data linkage is to determine needs, the data availability, and whether a unique identifier exists
Method: Probabilistic
[Python](#) [Related Data Sets](#)

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Contributor Name | Dec 9th 2017
In this code, we synthesized the evidence identifying participant or population characteristics that can influence the validity and completeness of data linkage and may be associated with systematic bias in reported outcomes. The purpose of this code was to synthesize the evidence through a structured narrative review of population characteristics that may be associated with changes in sensitivity and specificity of data linkage, thereby introducing systematic bias into reported outcomes...
Method: Deterministic
[Perl](#) [Sas](#) [Related Data Sets](#)

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Method: Probabilistic
[Python](#) [Related Data Sets](#)

Data sets related to this linkage:
[Dataset 1 in DLRep Collection \(DLRep Study Number\)](#)
[Dataset 2 in ICPSR's Collection \(ICPSR Study Nuber\)](#)
[Data Set that has been linked outside of DLRep](#)

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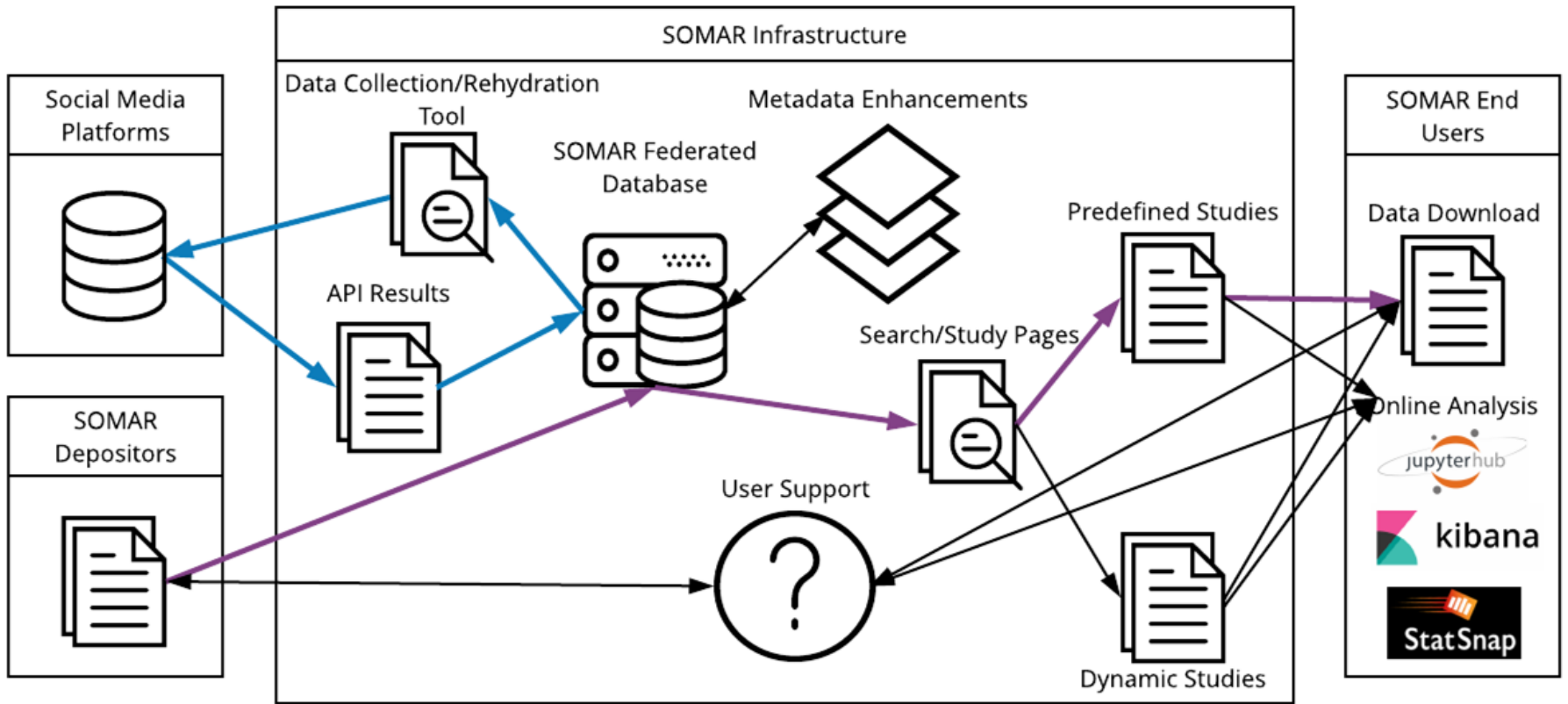
Data sets related to this linkage:
[Dataset 1 in DLRep Collection \(DLRep Study Number\)](#)

SOMAR: Social Media Archive

- Addresses 4 communities who:
 - Study social media use specifically
 - Leverage social media data to understand people and society
 - Study social science methods
 - Investigate new methods for curation, publication, confidentiality and quality assessment, and long-term management of research data
- Archive enables historical and longitudinal analyses often missing from rapidly changing social medial platforms

SOMAR: Social Media Archive

- Archive data where possible
- Archive workflows and code where data sharing is prohibited
 - Eg: Twitter IDs and code for rehydrating
- Curation and metadata
 - Provenance, dates, hashtags, confidentiality protection



SOMAR Challenges

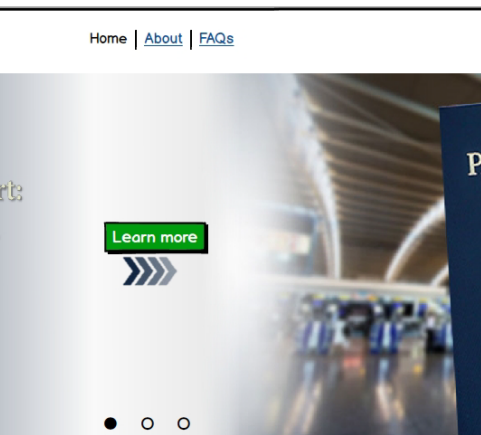
- **Technical infrastructure**
- **Ethical and legal infrastructure**
- **Metadata enhancements**
- **Adoption**

Researcher Passport

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The Researcher Passport:
Improving Data Access
and Confidentiality
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Establishing shared understanding of what it means to be a trusted researcher

Let your credentials speak for you!

A researcher passport is a durable and transferable digital identifier issued by a central, community-recognized data steward. It provides credentials that identifies a trusted researcher to multiple repositories and other data custodians.

Different levels for different needs

The passport level (tin, copper, bronze, silver, gold, or platinum) reflects the level of trust achieved by the researcher and status with regard to those characteristics.

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Researcher Passport

- Researcher Passport: Improving Data Access and Confidentiality Protection
 - ICPSR's Strategy for a Community-normed System of Digital Identities of Access
 - <https://deepblue.lib.umich.edu/handle/2027.42/143808>
 - Identifies inconsistent language and policies that impede access
 - Facilitate sharing of *proprietary* data
- Passports for safe people
 - Verified identities, institutional affiliation
 - Training
 - Experience (good and bad)
- Visas to control access
 - Permission to “enter” (access) specific data specifying
 - Passport holder
 - Project, Place, Period

Passport levels

PI SCORE	DATA SECURITY LEVEL				
	LOW	MODERATE	HIGH	HIGHEST	
8+	unrestricted	secure download	secure download	VDE / physical enclave	Platinum
7	unrestricted	secure download	virtual enclave	physical enclave	Gold
6	unrestricted	secure download	virtual enclave	no access	Silver
5	unrestricted	virtual enclave	no access	no access	Bronze
4	unrestricted	virtual enclave	no access	no access	Copper
0-3	unrestricted	no access	no access	no access	Tin


Researcher passport

- Implementation plan
 - Issue passports as digital identifiers associated with ICPSR MyData Accounts
 - Open badges
 - Portable, Verifiable, Transparent, Flexible
 - Repositories issue visas to access restricted data
 - Visa controls access to secure download or VDE
 - Visa issued after signed DUA
 - Establishing content of training requirements
 - Determining which existing training include that content
 - Governance system to provide due process for allegations of misconduct

On-line passport application

Verified identification

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TIN LEVEL


[View Details](#)

Upgrade Passport

Jane Smith
Total points: 2
Passport level: Tin
Access Level: Low


 **Approved**
As of: 6/13/2018
[\(renew/upgrade passport\)](#) expires: 6/13/2020

Personal | Professional | Research Experience | Training | Additional Details

 **My Visas**

First Name:

Last Name:

Email:  **verified**

Address Line 1:
Street address, P.O. box, Company name, c/o

Address Line 2:
Apartment, suite, unit, floor, building, etc.


City:


State/Province/Region:

ZIP:

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Professional qualifications and affiliations

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Passport level: Tin
Access Level: Low



Approved
As of: 6/13/2018

([renew/upgrade passport](#)) expires: 6/13/2020

Personal Professional Research Experience Training Additional Details

 My Visas

Education

Highest Degree earned:

Year granted:

Institution:

Focus/Major(s):

+ Add degree (optional)

Professional Work/Experience

Current Employer Type:

Current Role/Appointment:

Employer:

Years In This Role:

+ Add work experience (optional)

History of data stewardship

RESEARCHER PASSPORT Home | My Passport | My Visas | About | FAQs Jane Smith (log out)

Upgrade Passport

TIN LEVEL
View Details

Jane Smith
Total points: 2
Passport level: Tin
Access Level: Low

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As of: 6/13/2018
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Personal Professional **Research Experience** Training Additional Details My Visas

ORCID:

+ Add research publication

Do you have experience using restricted data? Yes No

If yes, please describe:

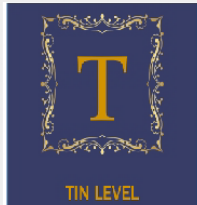
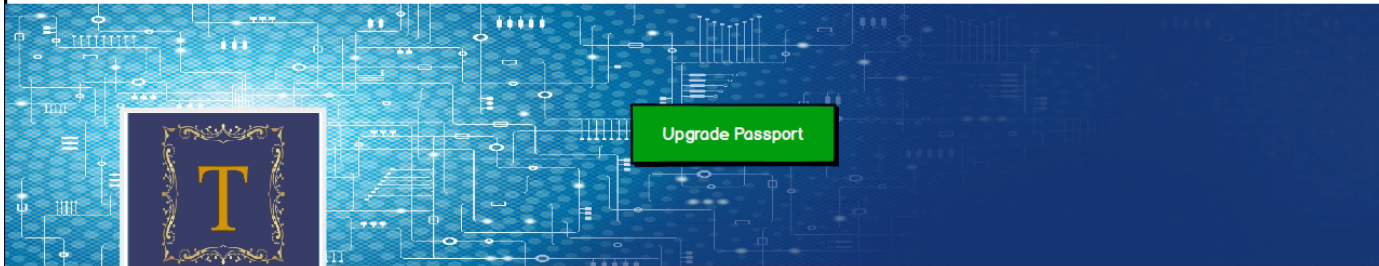
Details include inputting dois of publications along with dataset name and providing repository (if secondary data)

Have you received a federal grant in the last 10 years? Yes No

If yes, what is the grant number?: + Add more grant numbers (optional)

Have you received a federal clearance in the last 10 years? Yes No

If yes, please describe:



View Details

Upgrade Passport

Jane Smith
Total points: 2
Passport level: Tin
Access Level: Low



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- Personal
- Professional
- Research Experience
- Training**
- Additional Details

My Visas

Have you ever completed any *Data Security* training? Yes No

If yes, please describe:

Have you ever completed any *Research Conduct* training? Yes No

If yes, please describe:

Do you have any experience with Restricted Qualitative Data? Yes No

If yes, please describe:

+ Add other training

Participating repository issue visas

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Jane Smith
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Passport level: Tin
Access Level: Low

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Current Visas

	Visa Granter: ICPSR Date Issued: 6/13/2018 Expires: 6/14/2019 Datasets included: Dataset name 1 Dataset name 2 Dataset name 3
	Visa Granter: Dataverse Date Issued: 6/13/2018 Expires: 12/13/2018 Datasets included: Dataset name 4

Past Visas

	Visa Granter: CISER Date Issued: 6/13/2018 Expires: 6/30/2018 Datasets included: Dataset name 5
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Note that this is conceptual. These repositories have not agreed to this!

Questions

- Can reach ICPSR at help@icpsr.umich.edu
- Researcher Credentialing
 - Johanna Bleckman at Bleckman@umich.edu
- LinkageLibrary
 - Susan Leonard at hautanie@umich.edu
- SOMAR
 - Libby Hemphill at LibbyH@umich.edu

The initiatives described here are supported by the National Science Foundation (1744065 and 1525662) and the Sloan Foundation.