

ADVANCING RESEARCH • SHAPING POLICY • DEVELOPING LEADERS

The ISPS Data Archive: Mission, Work, and Some Reflections

Calendar | A-Z Index

Yale University



Institution for Social and Policy Studies

ADVANCING RESEARCH • SHAPING POLICY • DEVELOPING LEADERS

HOME RESEARCH NEWS EVENTS PROGRAMS TEAM ABOUT									
	HOME	RESEARCH	NEWS	EVENTS	PROGRAMS	TEAM	ABOUT		



FROM THE DIRECTOR



It's fellowship time at ISPS. Vesla Weaver, head of ISPS's Center for the Study of Inequality, has received a prestigious Carnegie Award for her proposal "The Faces of American Democracy." ISPS's economics phenom

SEARCH ISPS

Dean Karlan has received a Guggenheim Fellowship. Meanwhile, two of our law school stars, Eric Chung and Aisha Saad, received the George Soros New American Fellowship. We're still waiting for our first Oscar. In the meantime, my new book with Paul Pierson has attracted some (mostly friendly) attention, Greg Huber and Alan Gerber take another look at all the get-outthe-vote research that ISPS has pioneered, and Andy Papachristos and Michael Sierra-Arevalo report that an alternative approach to law enforcement—Project Longevity—has significantly reduced violent crime in New Haven.

UPCOMING EVENTS

Comparative Approaches to Immigration, Ethnicity, and Integration June 14, 2016 Read more ►

CSAP Annual American Politics Conference

LUX ET DATA: ISPS BLOG

Relationships Matter for Poverty, But Not in Isolation

Thomas Lyttelton, March 30, 2016 Marriage, births, geography, and the "diverging destinies" for children in America. Read more

Hello. World: The FBI. Apple. and the

WHAT IS ISPS?

http://isps.yale.edu

Archive Embedded in ISPS Website

Yale ISPS KnowledgeBase							
Data	Projects	Publications					
Terms of use	About the ISPS da	ta archive					
AUTHOR	ARE	OF STUDY					
- Any -	✓ - A	ny -	~				
DISCIPLINE	YEAR	LOCATION					
- Any -	✓ -Year N	- Any -	~				
KEYWORDS							
- Any -		~					
RESEARCH DESIG	N						
- Any -			~				
Search See all data							

Limor Peer | Yale University | April 2016

ISPS Data Archive: Basic Facts

- A digital repository for research produced by scholars affiliated with ISPS, with special focus on experimental design and methods. Associated data are primarily quantitative and gathered from a combination of administrative records, surveys, and observations.
- The Archive accepts research outputs underlying scientific publications including data, code, output, documentation, and other research artefacts.
- The Archive provides free and public access to research materials and accepts content for distribution only under a Creative Commons license.
- The Archive was launched in September 2010 as a pilot at Yale. (We learned a lot, and still are.)
- The Archive is managed by a full time professional with knowledge of the specific research domain and graduate student research assistants who handle most of the data curation.

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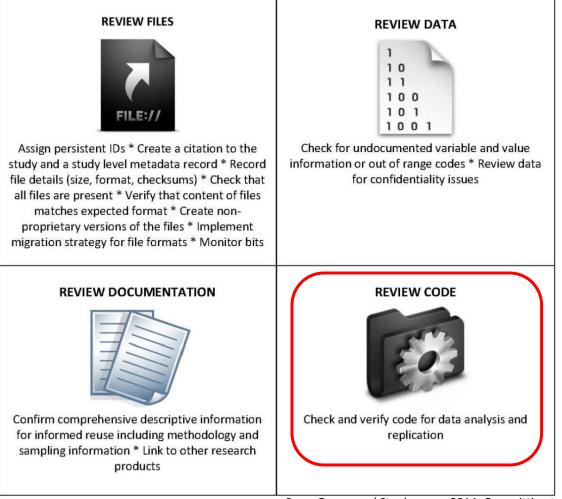
http://isps.yale.edu/research/data

ISPS Data Archive: Mission

The ISPS Data Archive was built to create an open access digital collection of social science experimental data, metadata, code, and associated files produced by ISPS researchers, for the purpose of replication of research findings, further analysis, and teaching.

Curation for Quality & Reproducibility

Data Quality Review Framework



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Peer, Green, and Stephenson. 2014. Committing to Data Quality Review. International Journal of Digital Curation, 19(1): 263-291. doi:10.2218/ijdc.v9i1.317

Curation Tasks for Quality & Reproducibility

Performed by the ISPS Data Archive pre-publication:

- 1. Check for missing variable labels and value codes.
- 2. Review observation count
- 3. Identify potential data errors
- 4. Compare questionnaire, codebook, & data
- 5. Ensure there is no personally-identifiable information (PII)
- 6. Confirm code executes
- 7. Confirm code produces reported results
- 8. Create open formats

- Yale ZISPS Signature Colectica
- \checkmark Structures and tracks the curation workflow
- \checkmark Helps automate parts of the review pipeline



- \checkmark Captures all metadata throughout the process
- Pushes out relevant information to predetermined destinations
 - \circ i.e., a user, the archive administrators, a Web based dissemination system, or preservation systems
- \checkmark Can fit into repository and research workflows

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• Leverages DDI Lifecycle

Yale 🚄

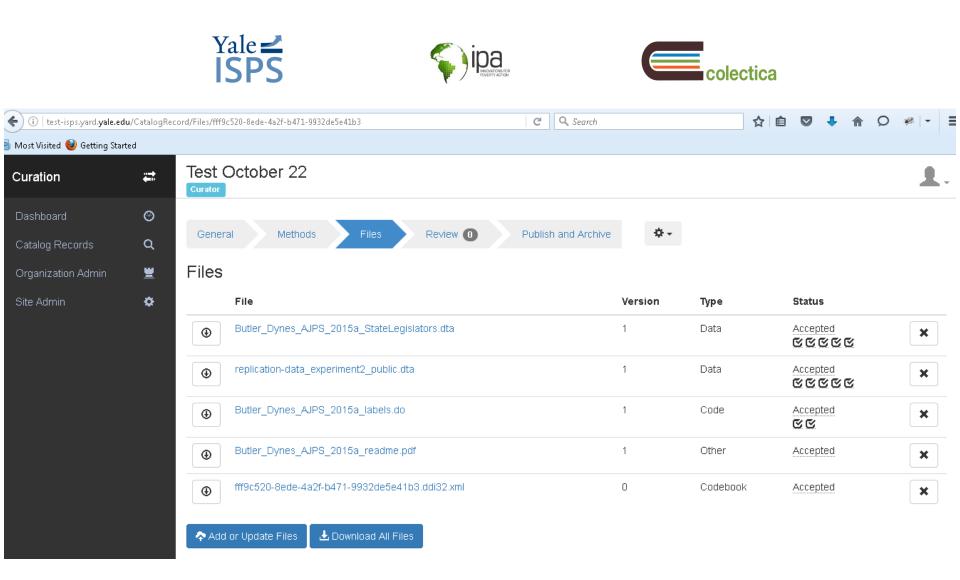
ÍSPS

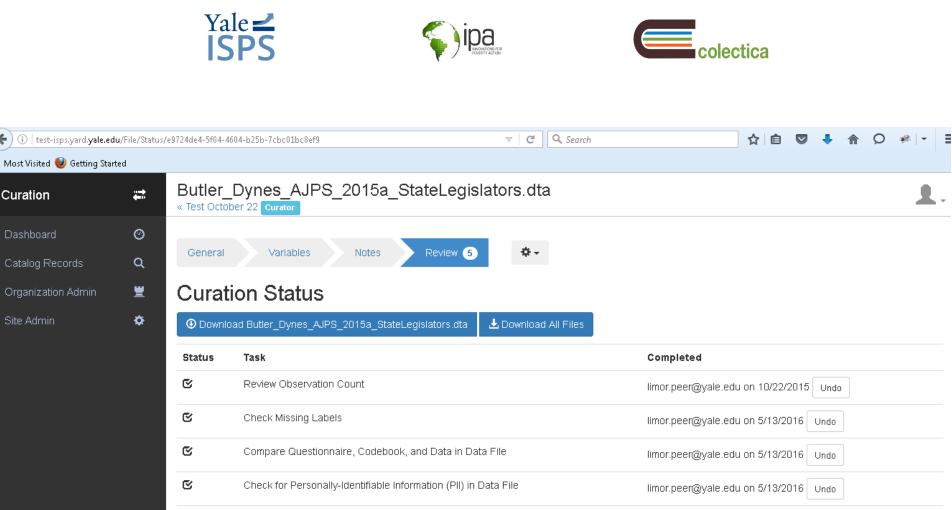
- Machine executable, open structured format supports research transparency
- Plays a part in review tasks study, file & variable levels

- Modular, open-source
 - Could be adapted to changing needs, research methods, dissemination platforms, and preservation solutions
 - Could be used by repositories, researchers, and research staff
 - Flexible deployment and configuration options



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Site Admin	۵	Rejected Needs curator	ERJ Test Record	7	11/02/2015	11/02/2015	6	000	0	
		Processing	TEST	3	05/18/2015	10/14/2015	c	000	0	
		Processing	Test	1	03/26/2015	05/19/2015	c	000	0	
		Processing	Test.2	2	05/07/2015	05/17/2016	c	000	0	
		Published	Test October 22	6	10/22/2015	05/13/2016	c	C	c	
		Draft Needs curator Locked	Chocolate scents and product sales: a randomized controlled trial in a Canadian bookstore and café		05/24/2016		ଟ	000	0	





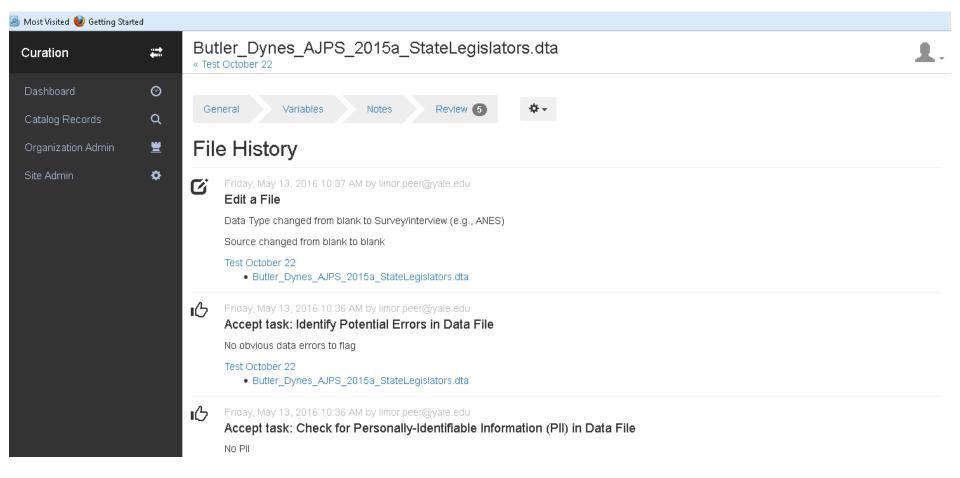
Identify Potential Errors in Data File

limor.peer@yale.edu on 5/13/2016 Undo

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←







Reflections: What's Next?

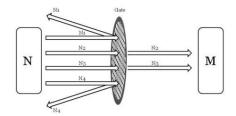
- Max Weber
- German sociologist, philosopher, political economist
- Inevitable and linear trend toward increasing rationalization, systemization, and routinization



Will curation for quality & reproducibility become routinized?

- 1. Research data policies & culture mature
- ✓ Wide recognition that curating for quality and reproducibility is a valued goal
- Researchers are rewarded for quality of materials shared (e.g., badges)
 OSF, ACM-DL
- ✓ Gatekeeping is acknowledged as essential function





Gate Keeping Theory

2. It is easier and cheaper to do

✓ It can be better automated ○ Curator tool, APIs

 Computational methods evolve to readily capture the entire workflow and preserve it

 R knitr, R Sweave, Docker, ReproZip

 Curator @Yale



📥 docker

3. It is a part of active research process



http://www.thesleuthjournal.com/military-co-option-media-entertainment/

Research data policies & culture mature
 It is easier and cheaper to do
 It is a part of active research process

Can Curation Prevent the Next Data Sharing Disaster?

http://isps.yale.edu/news/blog/2016/06/can-curation-prevent-the-next-data-sharing-disaster

Thank you!

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