http://cos.io/

Brian Nosek
University of Virginia
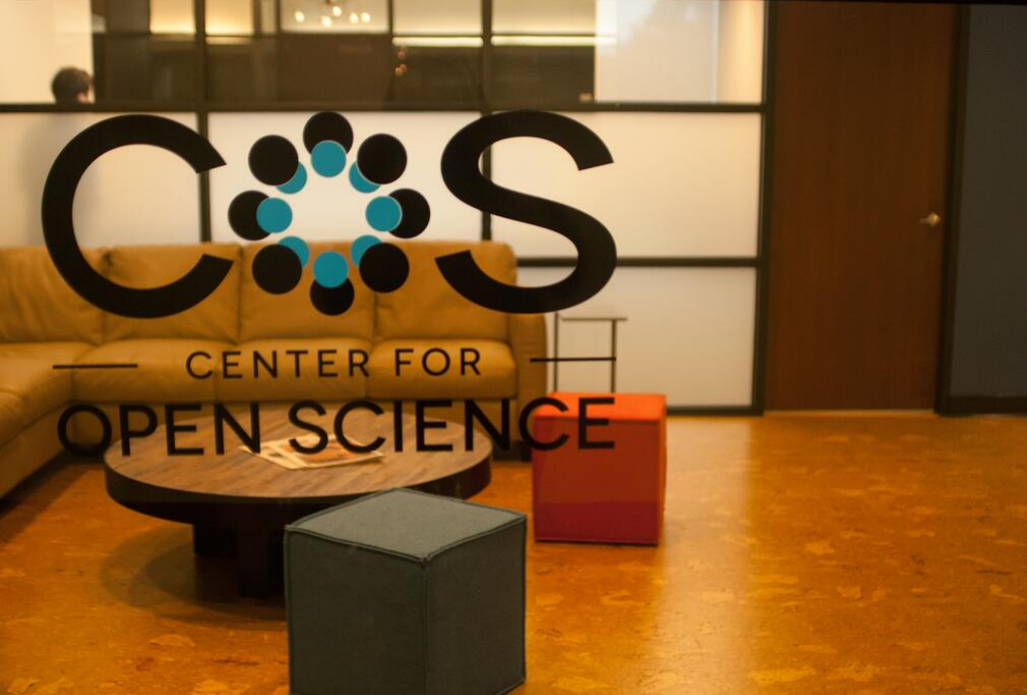http://briannosek.com/

Non-profit, incorporated 2013

3 foundation funders, $8 million

Fully FOSS technology

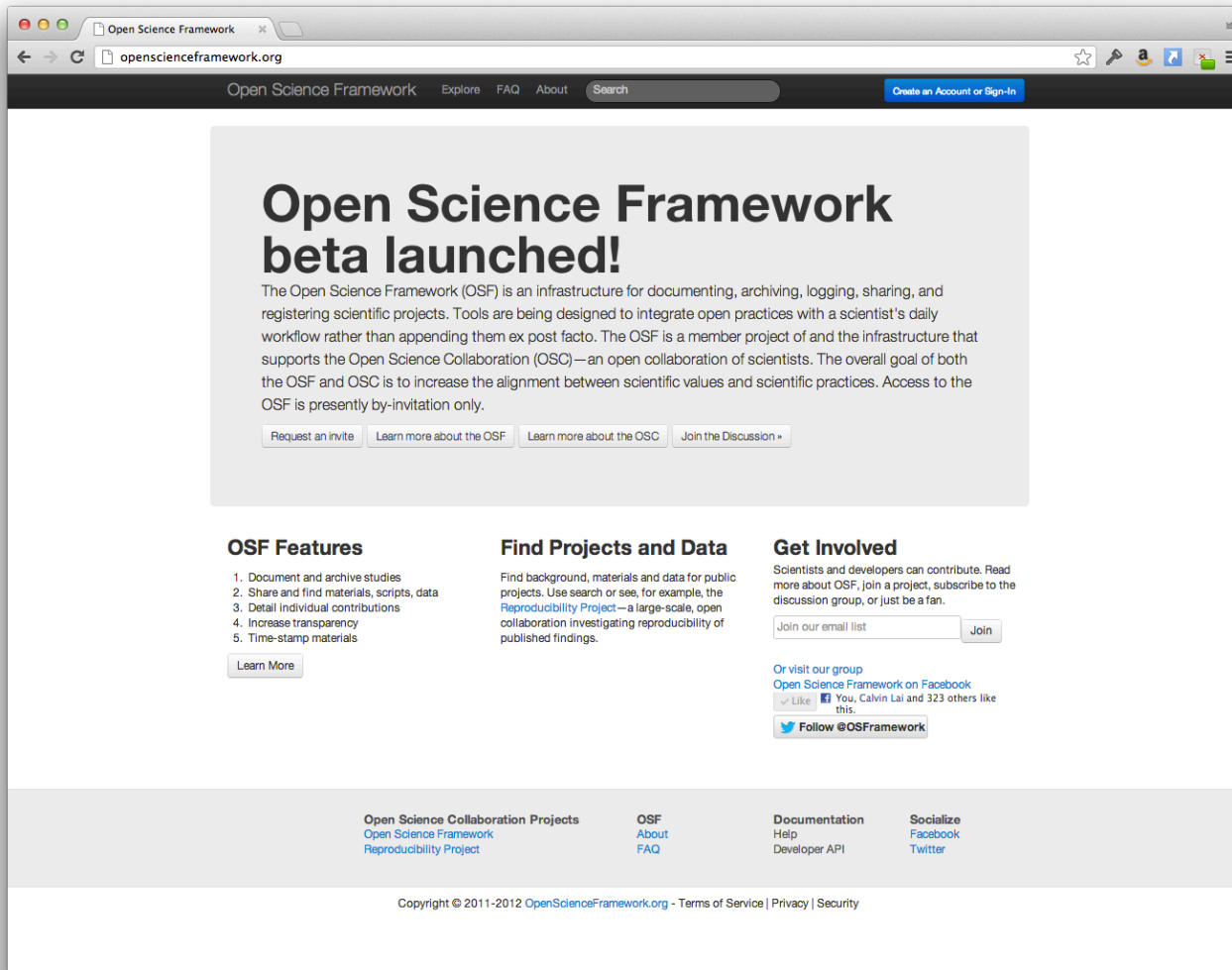No competitors

Activities: Infrastructure, community, metascience

Mission: Improve openness, integrity, and reproducibility of scientific research

Strategy

1. Services to support existing workflow

2. Enable good practices

3. Nudge incentives top-down and bottom-up

Open Science Framework
http://osf.io/

Jeff Spies

Publish report → Search and discover → Develop idea → Design study → Acquire materials → Collect data → Store data → Analyze data → Interpret findings → Write report → Publish report

Functions for workflow
Collaboration
Authoring
Documentation
Archiving
Commenting
Peer Review
Version control
Registration
Sharing
(Alt)metrics

2. Enable Good Practices

Openness

Registration

Reproducibility

3. Nudge incentives top-down and bottom-up

Altmetrics

Disclosure standards

Registered Reports

Crowdsourcing

Badges

Date Created: 6/14/2013 12:29 PM | Last Updated: 12/12/2013 2:05 PM
Description: We conducted replications of 13 effects in psychological science with 36 samples and more than 6000 participants. We examined heterogeneity in replicability across sample and setting.

Dashboard   Wiki   **Statistics**   Files   Registrations   Forks

Visits Per Day
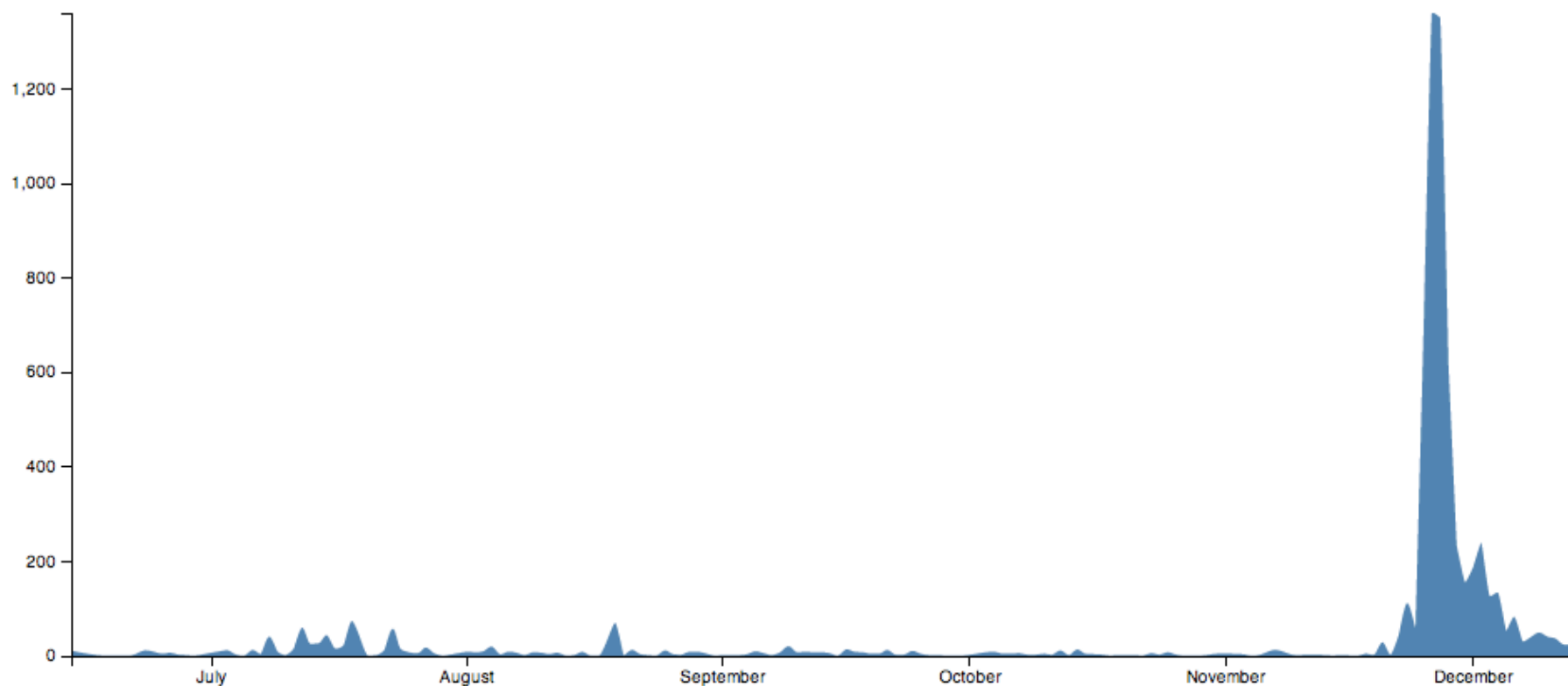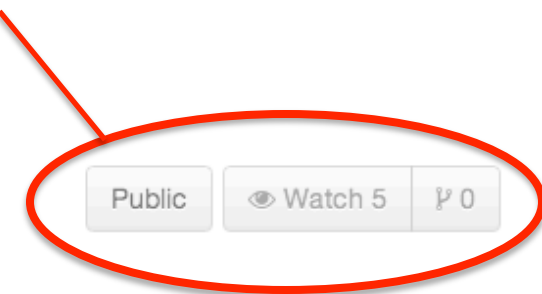
Investigating variation in replicability: The "Many Labs" Replication Project

Contributors: Richard A. Klein, Kate Ratliff, Brian A. Nosek, Michelangelo Vianello, Ronaldo Pilati, Thierry Devos, Elisa Maria Galliani, Mark Brandt, Anna van 't Veer, Abraham M. Rutchick, Kathleen Schmidt, Stepan Bahnik, Marek Vranka, Hans IJzerman, Fred Hasselman, Jennifer Joy-Gaba, Jesse J. Chandler, Leigh Ann Vaughn, Claudia Brumbaugh, Lyn van swol, Aaron Wichman, Grant Packard, Beach Brooks, Zeynep Cemalcilar, Justin Storbeck, Konrad Bocian, Carmel Levitan, Michael Jason Bernstein, Lacy Elise Krueger, Matthew Eisner, William E. Davis, Jason A. Nier, Anthony J. Nelson, Troy G. Steiner, Robyn Mallett, Donna Thompson, Jeffrey R. Huntsinger, Wendy Morris, Jeanine Skorinko

Date Created: 6/14/2013 12:29 PM | Last Updated: 12/12/2013 2:05 PM

Description: We conducted replications of 13 effects in psychological science with 36 samples and more than 6000 participants. We examined heterogeneity in replicability across sample and setting.

Dashboard   Wiki   Statistics   Files   Registrations   Forks
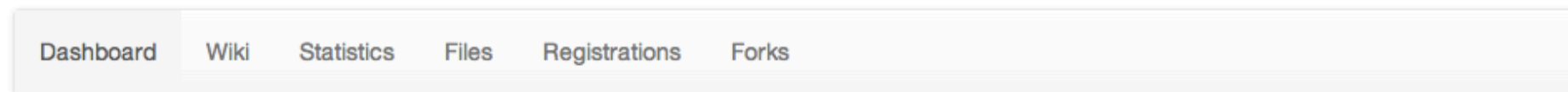
Access the full-size figure, proposal, and final manuscript in files.   **Citation:** osf.io/wx7ck   more

4 tacks, 1 objective: Disclosure

1. Self-disclosure

We report all data exclusions, manipulations, and measures, and how we determined our sample sizes

Leif Nelson

Joe Simmons

4 tacks, 1 objective: Disclosure

1. Self-disclosure

2. Voluntary response

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Disclosure categories:
1. **Exclusions:** Disclosed total number of observations excluded and criterion for doing so.
2. **Conditions:** Disclosed all tested experimental conditions, including failed manipulations.
3. **Measures:** Disclosed all administered measures and items.
4. **Sample size:** Disclosed (a) *basis* for chosen sample sizes and (b) *basis* for stopping data collection.

Submit your disclosure information for any article in any journal! Please see Contact Us page for more details.

Current response rate overall = 49% (275/567); PS = 42%, JPSP = 54%, JEPLMC = 50%, JEPG = 57%. [Website up-to-date as of Dec 3, 2013]

4 tacks, 1 objective: Disclosure

1. Self-disclosure
2. Voluntary response
3. Journal Requirement

4 tacks, 1 objective: Disclosure

1. Self-disclosure
2. Voluntary response
3. Journal Requirement
4. Reviewer Request

I request that the authors add a statement to the paper confirming whether, for all experiments, they have reported all measures, conditions, data exclusions, and how they determined their sample sizes. The authors should, of course, add any additional text to ensure the statement is accurate. This is the standard reviewer disclosure request endorsed by the Center for Open Science [see http://osf.io/hadz3]. I include it in every review.

Registered Reports

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Social Psychology

"Replications of Important Results in Social Psychology"

Guest Editors: Brian Nosek, Daniel Lakens

Home
About the Issue
Accepted Preregistered Replications

Replication of Experiments Evaluating Impact of Psychological Distance on Moral Judgment (Eyal, Liberman & Trope, 2008; Gong & Medin, 2012)

- **Replication Authors:** Iris Zezelj, Biljana Jokic
- **Original Articles:** Judging near and distant virtue and vice (Eyal, Liberman & Trope, 2008), Construal levels and moral judgment: Some complication (Gong & Medin, 2012)

Forming Impressions of Personality: A Replication and Review of Asch's (1946) Evidence for a Primacy-of-Warmth Effect in Impression Formation

- **Replication Authors:** Sanne Nauts, Daniel Wigboldus, Oliver Langner, Inge Huijsmans, Roos Vonk
- **Original Articles:** Forming impressions of personality (Asch, 1946)

Replication of "Experiencing physical warmth promotes interpersonal warmth" by Williams & Bargh (2008, Science)

- **Replication Authors:** Dermot Lynott, Katherine S. Corker
- **Original Articles:** Experiencing physical warmth promotes interpersonal warmth (Williams & Bargh, 2008)

Cleanliness Reduces the Severity of Moral Judgments: A Direct Replication of Schnall, Benton, and Harvey (2008)

- **Replication Authors:** Felix Cheung
- **Original Articles:** With a clean conscience: Cleanliness reduces the severity of moral judgments (Schnall, Benton, & Harvey, 2008)

Review of intro and methods prior to data collection; published regardless of outcome

In use:

- *Perspectives on Psychological Science*
- *Social Psychology*
- *Cortex*
- *Frontiers in Cognition*
- *Attention, Perception, & Psychophysics*
- *Experimental Psychology*
- *AIMS Neuroscience*
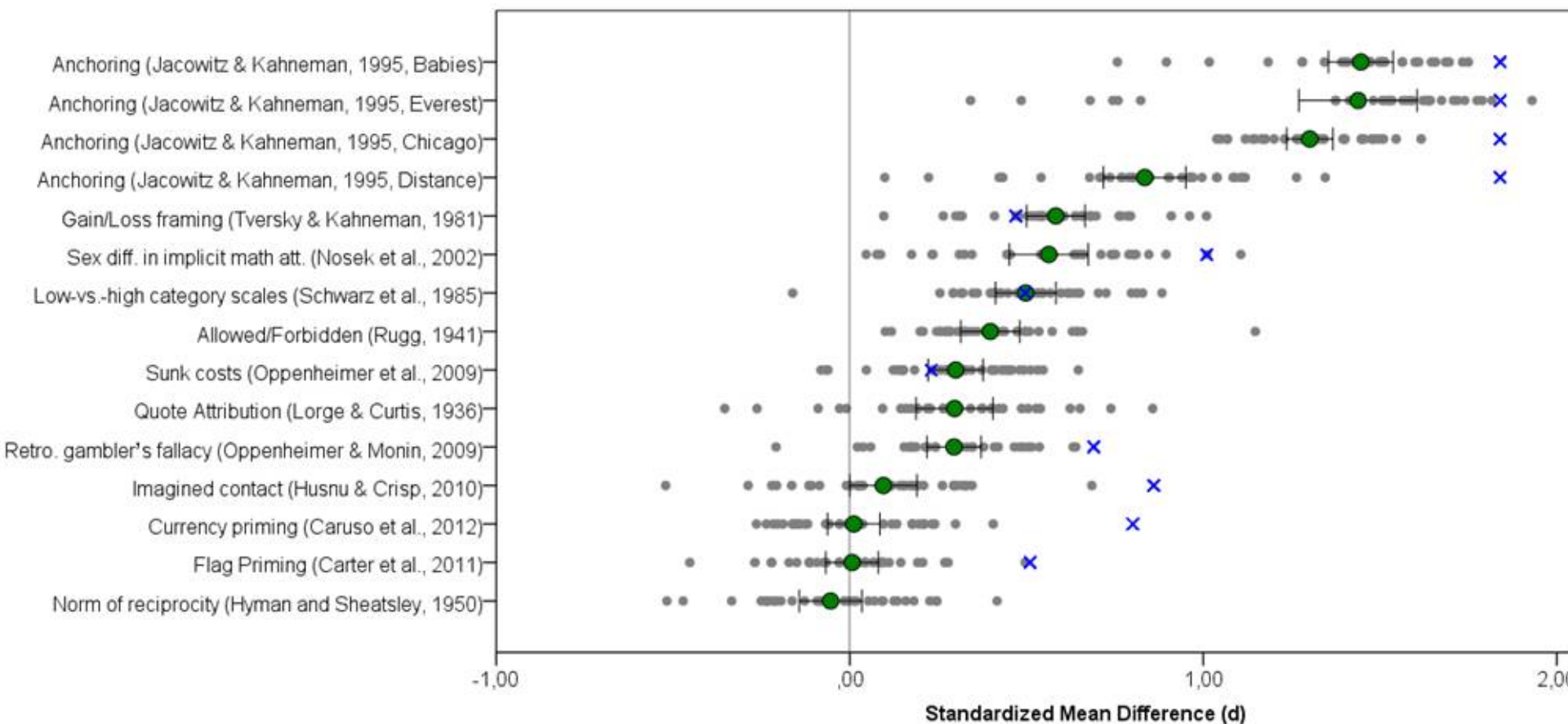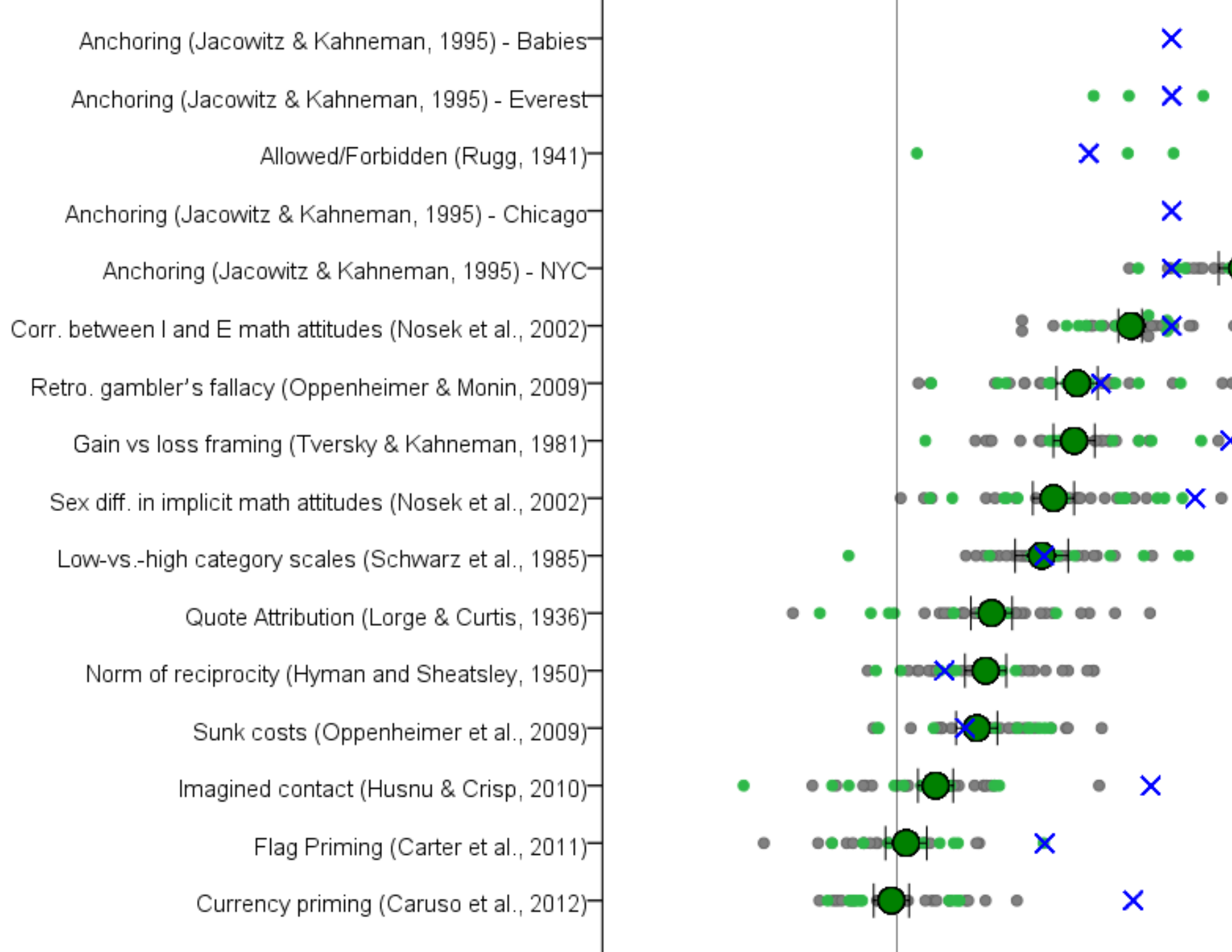
Many Labs Project

Rick Klein

Kate Ratliff

Michelangelo Vianello

+ Stepan Bahnik, Michael J. Bernstein, Konrad Bocian, Mark Brandt, Claudia Chloe Brumbaugh, Zeynep Cemalcilar, Jesse Chandler, Winnee Cheong, William E. Davis, Thierry Devos, Matthew Eisner, Natalia Frankowska, David Furrow, Elisa Maria Galliani, Fred Hasselman, Joshua A. Hicks, James F. Hovermale, S. Jane Hunt, Jeffrey R. Huntsinger, Hans IJzerman, Melissa-Sue John, Jennifer A. Joy-Gaba, Heather Kappes, Lacy E. Krueger, Jaime Kurtz, Carmel A. Levitan, Robyn Mallett, Wendy L. Morris, Anthony J. Nelson, Jason A. Nier, Grant Packard, Ronaldo Pilati, Abraham M. Rutchick, Kathleen Schmidt, Jeanine L. Skorinko, Robert Smith, Justin Storbeck, Lyn M. Van Swol, Donna Thompson, Anna van 't Veer, Leigh Ann Vaughn, Marek Vranka, Aaron Wichman, Julie Woodzicka

Standardized Mean Difference (d)

- Anchoring (Jacowitz & Kahneman, 1995) - Babies
- Anchoring (Jacowitz & Kahneman, 1995) - Everest
- Allowed/Forbidden (Rugg, 1941)
- Anchoring (Jacowitz & Kahneman, 1995) - Chicago
- Anchoring (Jacowitz & Kahneman, 1995) - NYC
- Corr. between I and E math attitudes (Nosek et al., 2002)
- Retro. gambler's fallacy (Oppenheimer & Monin, 2009)
- Gain vs loss framing (Tversky & Kahneman, 1981)
- Sex diff. in implicit math attitudes (Nosek et al., 2002)
- Low-vs.-high category scales (Schwarz et al., 1985)
- Quote Attribution (Lorge & Curtis, 1936)
- Norm of reciprocity (Hyman and Sheatsley, 1950)
- Sunk costs (Oppenheimer et al., 2009)
- Imagined contact (Husnu & Crisp, 2010)
- Flag Priming (Carter et al., 2011)
- Currency priming (Caruso et al., 2012)

Charter Adopting Journals

Cortex
European Journal of Personality
Human Computation
Journal of Research in Personality

Journal of Social Psychology
Journal of Vision
Psi Chi Journal
Psychological Science

OPEN DATA   **OPEN MATERIALS**   **PREREGISTERED**

Charter Endorsing Organizations

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Center for Open Science
Databrary
DataONE
DuraSpace
European Association for Personality Psych
figshare
Laura and John Arnold Foundation

Mozilla Science Lab
Network for Open Scientific Innovation
Open Science Federation
OpenfMRI
Prometheus Research
Psi Chi
PsychoPy
Reproducibility Initiative
Science Exchange

Josh Carp   Chun Wang   Sam Portnow   Denise Holman   Alex Schiller   Nan Chen

Jeff Spies   Melissa Lewis   Johanna Cohoon   Tim Errington   Wendy Zhu   Jake Rosenberg

Lyndsy Simon   Andrew Sallans   Michael Lapuz   Saul Brodsky   Steve Loria

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📄 wisc.zip	2013/12/11 04:51 PM	6 MB	3	⬇
📄 laurier.zip	2013/12/11 04:51 PM	10 MB	3	⬇
📄 swps.zip	2013/12/11 04:51 PM	15 MB	6	⬇
📁 Component: Methods and Study Materials	-	-		
📄 Measures_US_Version.docx	2013/12/11 04:51 PM	1 MB	72	⬇
📄 Study_Code_All_versions.zip	2013/12/11 04:51 PM	8 MB	13	⬇
📄 Study_Links.docx	2013/12/11 04:51 PM	18 KB	26	⬇
📄 Figure1.BW.png	2013/12/11 04:55 PM	121 KB	8	⬇
📄 ML.web.Supplement.pdf	2013/12/11 04:55 PM	383 KB	10	⬇
📄 ManyLabsProposal.docx	2013/12/11 04:51 PM	59 KB	78	⬇
📄 ManyLabsProposal_V1.1.docx	2013/12/11 04:51 PM	79 KB	53	⬇
📄 Figure1.BW.svg	2013/12/11 04:55 PM	1 MB	3	⬇
📄 Figure1.Colored.svg	2013/12/11 04:55 PM	1 MB	621	⬇
📄 Figure1.web.png	2013/12/11 04:55 PM	79 KB	4851	⬇
📄 Figure1.Colored.png	2013/12/11 04:55 PM	117 KB	10	⬇
📄 ManyLabsManuscript.pdf	2013/12/11 04:44 PM	495 KB	1068	⬇

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Effects of elaboration on implicit-explicit correspondence

Contributors: Jeffrey R. Spies, Brian A. Nosek, Nicole M. Lindner | add
Date Created: 2012/10/03 05:07 PM | Last Updated: 2012/10/19 02:53 PM

Dashboard   Wiki   Statistics   Files   Registrations   Forks   Settings

An experimental investigation of how elaboration affects the relationship between implicit and explicit attitudes.

...

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👁 0   ⤫ 2

implicit attitudes x   elaboration x
Implicit Association Test x   IAT x   add a tag

Components   New Node

Measures   −

Recent Activity

10/03/12 05:10 PM   Jeffrey R. Spies added file disabilities.scenario.txt to node Measures

10/03/12 05:08 PM   Brian A. Nosek updated file disabilities.scenario.txt in node Measures

10/03/12 05:08 PM   Brian A. Nosek added Jeffrey R. Spies as contributor on node Measures

Data   +

Publication   +

Files

📁 Effects of elaboration on implicit-explicit correspondence
  📁 Measures
    📄 disabilities.scenario.txt
  📁 Data
  📁 Publication

10/19/12 02:53 PM   Jeffrey R. Spies added Nicole M. Lindner as contributor on node Effects of elaboration on implicit-explicit correspondence

10/03/12 05:21 PM   Jeffrey R. Spies created node Publication

10/03/12 05:19 PM   Jeffrey R. Spies registered project Effects of elaboration on implicit-explicit correspondence

10/03/12 05:17 PM   Jeffrey R. Spies made project Effects of elaboration on implicit-explicit correspondence public

10/03/12 05:14 PM   Brian A. Nosek tagged project Effects of elaboration on implicit-explicit correspondence as IAT

10/03/12 05:10 PM   Jeffrey R. Spies added file disabilities.scenario.txt to node Measures

10/03/12 05:09 PM   Brian A. Nosek updated wiki page home to version 2

10/03/12 05:09 PM   Brian A. Nosek tagged project Effects of elaboration on implicit-explicit correspondence as Implicit Association Test

10/03/12 05:09 PM   Brian A. Nosek tagged project Effects of elaboration on implicit-explicit correspondence as elaboration

10/03/12 05:09 PM   Brian A. Nosek tagged project Effects of elaboration on implicit-explicit correspondence as implicit attitudes

more

Central issue

Incentives for individual success are focused on getting it published, not getting it right

Brian A. Nosek, Jeffrey R. Spies, and Matt Motyl
University of Virginia

Solutions

- Transparency
- Distinguish confirmatory v. exploratory
- Replication
- Aggregate evidence
- Narrow use of NHST

Sterling, 1959; Cohen, 1962; Lykken, 1968; Tukey, 1969; Greenwald, 1975; Meehl, 1978; Rosenthal, 1979

Challenges

- Perceived norms (Anderson, Martinson, & DeVries, 2007)

- Motivated reasoning (Kunda, 1990)

- Minimal accountability (Lerner & Tetlock, 1999)

- I am busy (Me & You, 2013)

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Effects of elaboration on impli
correspondence /
Measures

Make public

Contributors: Brian A. Nosek, Jeffrey R. Spies | add
Date Created: 2012/10/03 05:07 PM | Last Updated: 2012/10/19 02:55 PM
Category: methods and measures

| Dashboard | Wiki | Statistics | Files | Registrations | Forks | Settings |

Measures we used for this project

...

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add a tag

Files

☐ ☐ Measures

10/19/12 02:55 PM   Jeffrey R. Spies updated wiki page home
to version 1
10/03/12 05:10 PM   Jeffrey R. Spies added file
disabilities.scenario.txt to node Measures
10/03/12 05:08 PM   Brian A. Nosek updated file
disabilities.scenario.txt in node Measures
10/03/12 05:08 PM   Brian A. Nosek added Jeffrey R. Spies as
contributor on node Measures
10/03/12 05:07 PM   Brian A. Nosek created node Measures

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openscienceframework.org/project/sQcxy/register/

Effects of elaboration on implicit-explicit correspondence

Public   👁 0   ⤬ 3

Contributors: Jeffrey R. Spies, Brian A. Nosek, Nicole M. Lindner | add
Date Created: 2012/10/03 05:07 PM | Last Updated: 2012/10/19 02:55 PM

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Registration Template

✓ Please Select
OSF–Standard Post–Data Collection Registration
American Economic Review Resgistration
Psychological Science Registration
Open–Ended Registration
OSF–Standard Pre–Data Collection Registration
NIH Clinical Trials Registration
Spellman's Ultimate Registration

openscienceframework.org/project/sQcxy/register/OSF-Standard_Pre-Data_Collection_Registration

Effects of elaboration on implicit-explicit correspondence

Public   👁 0   ⤳ 3

Register

Is data collection for this project underway or complete?	No
Have you looked at the data?	No
Other Comments	I will be starting data collection next week.

Registration cannot be undone, and the archived content and files cannot be deleted after registration. Please be sure the project is complete and comprehensive for what you wish to register.

| Type "continue" if you are sure you want to continue | |

openscienceframework.org/project/RwgA3/

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Effects of elaboration on implicit-explicit correspondence

An experimental investigation of how elaboration affects the relationship between implicit and explicit attitudes.

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Components   New Node

Measures | registered: 2012/10/19 03:06 PM   +

Data | registered: 2012/10/19 03:06 PM   +

Publication | registered: 2012/10/19 03:06 PM   +

Files

⊞ 🗀 Effects of elaboration on implicit-explicit correspondence

implicit attitudes x   elaboration x

Implicit Association Test x   IAT x   add a tag

10/19/12 02:55 PM   Jeffrey R. Spies updated wiki page home to version 1

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10/03/12 05:09 PM   Brian A. Nosek tagged project Effects of elaboration on implicit-explicit correspondence as elaboration

more

New Problems?

- Low power

- Questionable research practices

- Overabundance of positive results

- Ignoring null results

- Lack of replication

- Limitations of NHST

Sterling, 1959; Cohen, 1962; Lykken, 1968; Tukey, 1969; Greenwald, 1975; Meehl, 1978; Rosenthal, 1979

Support for Metascience and Open Tools

How to change the scientific culture

1. Technology to enable change

2. Training to enact change

3. Incentives to embrace change

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Public

Collaborative Replications and Education Project (CREP)

Contributors: Jon Grahe, Mark Brandt, Hans IJzerman, Johanna Cohoon
Date Created: 2013/05/30 02:56 PM | Last Updated: 2013/11/07 05:22 AM
Description: This is a replication project where students are encouraged to conduct replications as part of their courses.

| Dashboard | Wiki | Statistics | Files | Registrations | Forks |

Project Title: Collaborative Replications and Education Project (CREP)

Project Leaders: Mark Brandt, Tilburg University; Hans IJzerman, Tilburg University; Jon Grahe, Pacific Lutheran University, Western Regional VP for Psi Chi

Purpose: Two goals: Through student participation in large...

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Replications | Teaching | PsiChi | CREP

All times displayed at -0400 UTC offset.

10/10/2013 5:17 AM	Mark Brandt updated wi version 8
10/2/2013 11:37 PM	Jon Grahe updated wiki version 10
9/30/2013 4:18 PM	Jon Grahe updated wiki version 14
9/21/2013 2:46 AM	Mark Brandt updated wi version 7
9/6/2013 5:15 AM	Mark Brandt tagged cor Instructions to Contribu
9/6/2013 5:14 AM	Mark Brandt tagged pro CREP

Components

Add Component

Instructors: What Can You Do with a Replication?   ＋

Brandt, IJzerman, Grahe & 1 other

▬ 19 contributions

Project Tasks: Volunteers Welcomed   ＋

Collaborative Replications and Education Project

- Facilitate student research training
- Increase precision in effect estimates
- Eight feasible, high impact studies
- Sponsored by Psi Chi and COS
  - $200-$500 CREP Awards
- Contact: Jon Grahe, graheje@plu.edu

Mark Brandt

Jon Grahe

Hans IJzerman

Reproducibility Project: Psychology

An Open, Large-Scale, Collaborative Effort to Estimate the Reproducibility of Psychological Science

Open Science Collaboration[1]

Abstract

Reproducibility is a defining feature of science. However, because of strong incentives for innovation and weak incentives for confirmation, direct replication is rarely practiced or published. The Reproducibility Project is an open, large-scale, collaborative effort to systematically examine the rate and predictors of reproducibility in psychological science. So far, 72 volunteer researchers from 41 institutions have organized to openly and transparently replicate studies published in three prominent psychological journals in 2008. Multiple methods will be used to evaluate the findings, calculate an empirical rate of replication, and investigate factors that predict reproducibility. Whatever the result, a better understanding of reproducibility will ultimately improve confidence in scientific methodology and findings.

Reproducibility Project: Psychology

- 178 contributors

- 79 replications underway or completed

- Grants up to $2,000 per study available

- Contact: johanna@cos.io

Support for Metascience and Open Tools