

OPEN SCIENCE, SOCIAL MEDIA, AND YOU

Alexander Etz

UC Irvine

@alxetz

@TheBayesFactor

Open Science

There is a growing trend toward adopting open science practices

- Reproducible code
- Posting preprints
- Sharing data

Social Media

Growing contingent of scientists using social media in scientific capacity (e.g., Twitter)

- Sharing interesting work
- Brainstorming new ideas
- Forming new collaborations
- (Not just posting pictures of cats)

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- Sharing int
- Brainstorm
- Forming no
- (Not just p



James Heathers
@jamesheathers

Until next time, stay wobbly. pic.twitter.com/pkok6c1p1c
2:01 PM - Apr 29, 2018



ial media in

Why do I like twitter?

- Science happens quickly, twitter helps me keep up
- Share my work with wider audience (more citations!)
- (Somewhat) removes academic hierarchy
- Easy access to experts
- Potential to enlarge scientific network
- Potential to engage with lay public
- Make new friends



Alexander Etz
@AlxEtz

Tweets
9,525

Tweets

Keeping myself up to date

For me, the most popular ways I discover new papers are via social media

- I rarely go browse journal TOC these days
- Follow people for real time updates
- Psyarxiv bot regularly tweets new preprints (follow @PsyArXivBot)

This is work that is possibly months/years away from showing up in a journal!

Access to experts



[Jim Grange](#)

@JimGrange

Following



To all my `#rstats` friends: I have a list containing several data frames, and want to conduct a t-test (`dv ~ condition`) on each data frame in the list using `lapply`. How do I go about this? Sample code in the next tweet....

4:57 AM - 3 Feb 2018

1 Retweet



Access to experts



[Jim Grange](#)

@JimGrange

Following



```
set.seed(1)
```

```
data_a <- data.frame(condition = c(rep('A', 15), rep('B', 15)),  
                      dv = rnorm(1:30))
```

```
data_b <- data.frame(condition = c(rep('A', 15), rep('B', 15)),  
                      dv = rnorm(1:30))
```

```
all_data <- list(data_a, data_b)
```

lapply....???? #rstats

4:57 AM - 3 Feb 2018

Access to experts



Henrik Singmann

@HenrikSingmann

Following



Replies to [@JimGrange](#)

```
res <- lapply(all_data, function(x) t.test(dv ~ condition, x))
sapply(res, "[[", i = "p.value") # gives all p-values
sapply(res, "[[", i = "statistic") # gives t-statistics
```

5:31 AM - 3 Feb 2018

2 Likes



Get feedback on preprints



PsyArXiv-bot
@PsyArXivBot

Following



Reported self-control does not meaningfully assess the ability to override impulses



Reported self-control is not meaningfully associated with in...

Self-control is assessed using a remarkable array of measures. However, the ability to override impulses putatively unites diverse measures of self-control. In a series of four studies (N = 2,463)...
psyarxiv.com

8:58 AM - 17 Aug 2017

12 Retweets 24 Likes



12



24



Get feedback on preprints



Sanjay Srivastava
@hardsci

Following



Alternative headline: Stroop and flanker do not meaningfully assess the ability to override impulses

PsyArXiv-bot @PsyArXivBot

Reported self-control does not meaningfully assess the ability to override impulses
osf.io/bxfsu/

3:18 PM - 17 Aug 2017

15 Retweets 66 Likes



9

15

66



Get feedback on preprints

Sanjay Srivastava @hardsci · 17 Aug 2017
I think we should favor evidence of validity (construct, criterion, content, etc.).
Which is woefully thin for Stroop and flanker as 1/2

1 3

Sanjay Srivastava @hardsci · 17 Aug 2017
measures of the construct "ability to override impulses" 2/2

1 3

Sanjay Srivastava @hardsci · 17 Aug 2017
(specifically, as measures of individual differences in that ability) 3/2

2 3

Sanjay Srivastava @hardsci · 17 Aug 2017
It's a very cool study BTW, I'd just like to see the intro and disc treat validity as not foregone just b/c of popularity or design intent

While these executive functioning tasks originated in cognitive psychology, they have been widely adopted as a *de facto* measure of self-control in social and personality psychology (Allom et al., 2016; Edmonds et al., 2009; Gailliot et al., 2007; Inzlicht & Gutsell, 2007; Molden et al., 2012). As these paradigms were created to specifically tap into control processes capable of overcoming pre-potent impulses (cf., Botvinick et al., 2001; Miyake et al., 2001), laboratory tests of inhibitory executive functioning provide a valid criterion against which to assess the inhibitory nature of self-report measures of self-control.

2 4

Get feedback on preprints



Michael Inzlicht

@minzlicht

Following



Interesting day. Smart discussion of one of my papers while I was busy prepping for back-country camping trip!

Sanjay Srivastava @hardsci

Alternative headline: Stroop and flanker do not meaningfully assess the ability to override impulses [twitter.com/PsyArXivBot/st...](https://twitter.com/PsyArXivBot/status/895111111111111111)

6:12 PM - 18 Aug 2017

Get feedback on preprints



Blair Saunders @Blair_Saunders · 19 Aug 2017

I second @minzlicht comments here. Thanks to all for sharing comments, for critiquing and helping us shape our thoughts--very quickly

Michael Inzlicht @minzlicht

Interesting day. Smart discussion of one of my papers while I was busy prepping for back-country camping trip! twitter.com/hardsci/status...

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Enlarge the network



Alexander Etz

@AlexEtz



Hey friends, quick poll. Have you ever begun a new collaboration with someone you initially met via twitter? And if yes will you reply with a link to the paper/project?

21% yes

43% no

36% see results

606 votes • 8 hours left

12:40 PM - 3 Jul 2018

15 Retweets 13 Likes



42

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Enlarging the network

 **Randy McCarthy** @RandyJMcCarthy · 16h
Replies to [@AlxEtz](#)

Me and [@maltoesermalte](#) collaborated on this manuscript: collabrahq.org/articles/10.15.... We have never met and Malte owes me a pint of Germany's finest beer.

TY IRNIA Collabra McCarthy, R. J., and Elson, M. (2017). A Conceptual Review of Lab-Based Aggression. *Collabra: Psychology*, 3(1), pp. 1–12, DOI: <https://doi.org/10.1525/collabra.104>

ARTICLE

conceptual Review of Lab-Based Aggression Par McCarthy* and Malte Elson†

is often defined as a behavior that is done with the intent to harm an individual or want avoid being harmed (e.g., Baron & Richardson, 1994). Accordingly, society developed several tasks to study aggression in laboratory settings; tasks that we call "aggression paradigms." However, because of the legal, ethical, and practical issues involved in aggression within the confines of a laboratory setting, it is feasible to study "fictitious aggression." The current conceptual review examines the criteria that are essential in a laboratory setting, discusses the strengths and weaknesses of several commonly-used lab-based aggression paradigms, and offers recommendations for the future of aggression research. Collectively, we hope the current discussion helps researchers to understand the contributions and limitations of lab-based aggression research and, ultimately, helps to improve the field of aggression research.

Note
This manuscript was inspired by an ongoing Twitter exchange between the authors. Although spirited debate no instances of interpersonal aggression occurred during the process of writing the manuscript.


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Enlarging the network

Liam Satchell @lpsatchell · 15h

Replying to @AlxEtz

- (Slowly) writing up project with @RandyJMcCarthy,
- Replicating study for collab with @CRChartier,
- This project with @CraigHarper19 psyarxiv.com/45u7x/ ,
- 15 folks signed up for my psych of psych @Study_Swap project (so far).

a pint of

Twitter is amazing for collabs.

 **Dispositional disinhibition and disordered drinking: ...**

Personality correlates with problematic alcohol consumption are important for understanding who is an at-risk individual and how we may build successful int... [psyarxiv.com](https://psyarxiv.com/45u7x)

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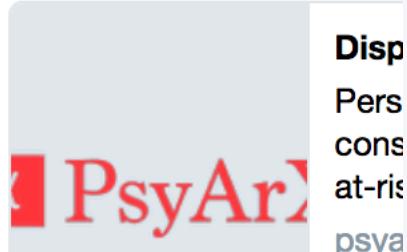
Enlarging the network

Liam Satchell @lpsatchell

Replying to @AlixEtz

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- This project with @CraigH
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Twitter is amazing for colla



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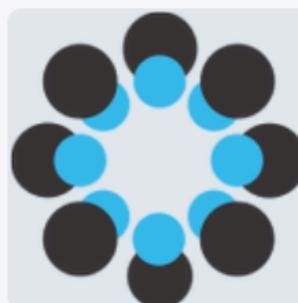
Joe Hilgard, that psych prof we all know and love. @JoeHilgard · 15h

Replying to @AlixEtz

Wrote this long before meeting Lakens:

bmcpychology.biomedcentral.com/articles/10.11...

This is wrapping up and I've still never met Felix & Evan:



Correcting for bias in psychology: A comparison of ...

Publication bias and questionable research practices in primary research can lead to badly overestimated effects in meta-analysis. Methodologists have proposed a var... osf.io

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Enlarging the network

Liam Satchell @lpsatchell

Joe Hilgard, that psych prof we all know and love. @JoeHilgard · 15h

Casper Albers @CaAl · 15h

Replying to @AlixEtz

Yes. This one, with @lakens: sciencedirect.com/science/article/10.1101/286582

and this one with @sTeamTraen and @StuartJRitchie

ncbi.nlm.nih.gov/pubmed/28658214

and justify your alpha with gazillion others.

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ly-used lab-based aggression paradigms, and offers recommendations for the future of aggression research. Collectively, we hope the current discussion helps researchers to better understand the strengths and limitations of lab-based aggression research and, ultimately, helps to improve the validity and generalizability of lab-based aggression research.

10.1101/286582

Felix & Evan:

psychology: A comparison of ...

questionable research practices in psychology lead to badly overestimated effects. Psychologists have proposed a var...

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Tim van der Zee @Research_Tim · 15h

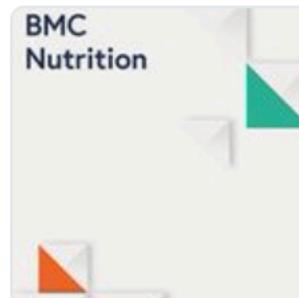
Replying to @AlxEtz

Haha, 25% of my publications are like that:

@doctorwhy: researchgate.net/profile/Yana_W...

@sTeamTraen + @OmnesResNetwork + @jamesheathers:

bmcnutr.biomedcentral.com/articles/10.11... & peerj.com/preprints/3025... &
peerj.com/preprints/2696...



Statistical heartburn: an attempt to digest four pizz...

We present the results of a reanalysis of four articles from the Cornell Food and Brand Lab based on data collected from diners at an Italian restaurant buffet. We...
bmcnutr.biomedcentral.com



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ly-used lab-based aggression paradigms, and offers recommendations for the future of aggression research. Collectively, we hope the current discussion helps researchers to better understand the strengths and limitations of lab-based aggression research and, ultimately, helps to improve the validity and relevance of lab-based aggression research.

Igard · 15h

comparison of ...
rch practices in
estimated effects
proposed a var...

Francis Gagnon | Voilà @chezVoila · 1



Replying to @AlixEtz

I submit this humble project done with @vis

chezvoila.com/blog/whatcanwe...



#WhatCanWeDo collection of suggestions - visual...

As previewed last week, myself and Francis Gagnon organised a poster session collective wisdom of attendees at visualisingdata.com



Brian Nosek @BrianNosek · 14h

Replying to @AlixEtz

scholar.google.com/citations?user... I count 15 from 2015-2018.



Megha Mukim @meghamukim · 1

Replying to @AlixEtz @chezVoila

Forthcoming paper on the #BeltRoo
@WBG_Cities



Brian D. Earp @briandavidearp · 5h

Replying to @AlixEtz @hardsci

Dana Linnell V



Reply



Gustav Nilsonne @GustavNilsonne · 2h

Replying to @AlixEtz

I wrote a letter to the editor once with [@JoeHilgard](#) after reading his blog and using code he had posted, and which I found because of twitter.

[doi.org/10.1016/S2215-0138\(18\)30001-1](https://doi.org/10.1016/S2215-0138(18)30001-1)

Also joined Reproducibility Project: Psychology and Justify Your Alpha after twitter exchanges.



Engage the public

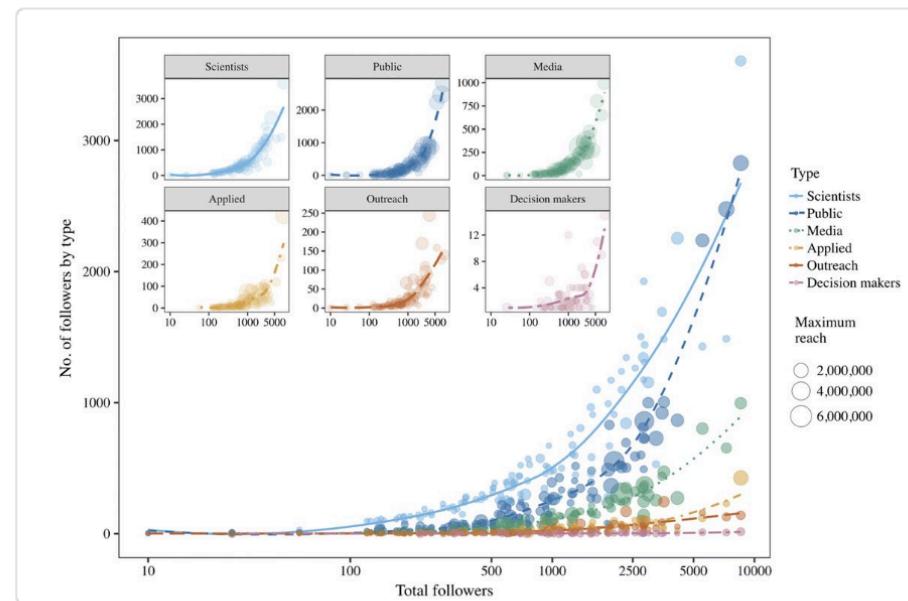


Jason Sheltzer
@JSheltzer

Follow

Great new study about science outreach via Twitter: Initially, scientists mostly tweet to each other. But after accumulating about 1000 followers, scientists reach an increasing number of journalists, policy makers, and other members of the public.

facetsjournal.com/doi/10.1139/fac...



1:26 PM - 29 Jun 2018

2,891 Retweets 5,045 Likes



90 2.9K 5.0K

Make new friends



Alexander Etz

@AIxEtz



Getting ready for [@CandiceMorey](#)'s [#csbbcs](#) open science workshop! [@dstephenlindsay](#)



6:49 PM - 3 Jul 2018

Go forth and tweet!

- Try it – you might just like it
- Follow people in your field and others
- Follow @dstephenlindsay
- Follow @candicemorey
- Share your preprints and your cool new ideas
- If someone really bugs you, block them!