

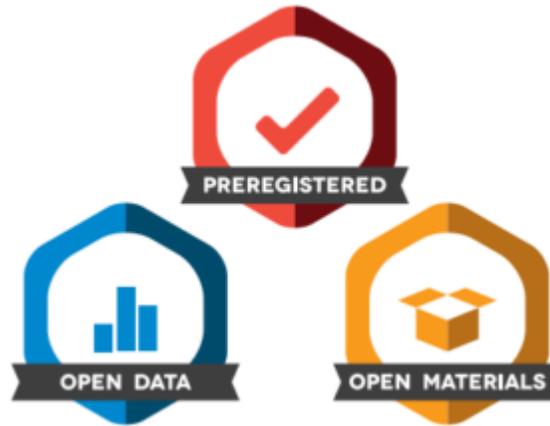
A close-up photograph of two ravens standing on a snowy surface. The ravens are dark, almost black, with their feathers showing some iridescent sheen. They have large, hooked beaks and are looking downwards. The background is a bright, snowy landscape.

# Collaborative replication and education projects

Gerit Pfuhl, UiT the Arctic University of Norway

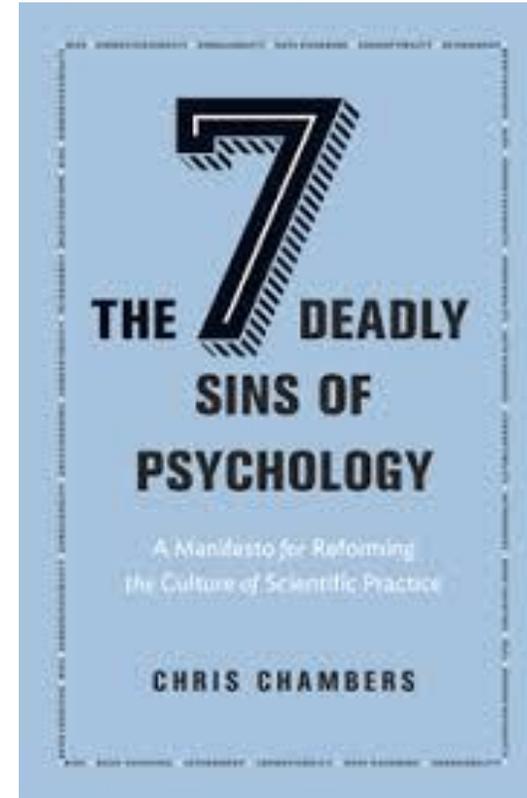
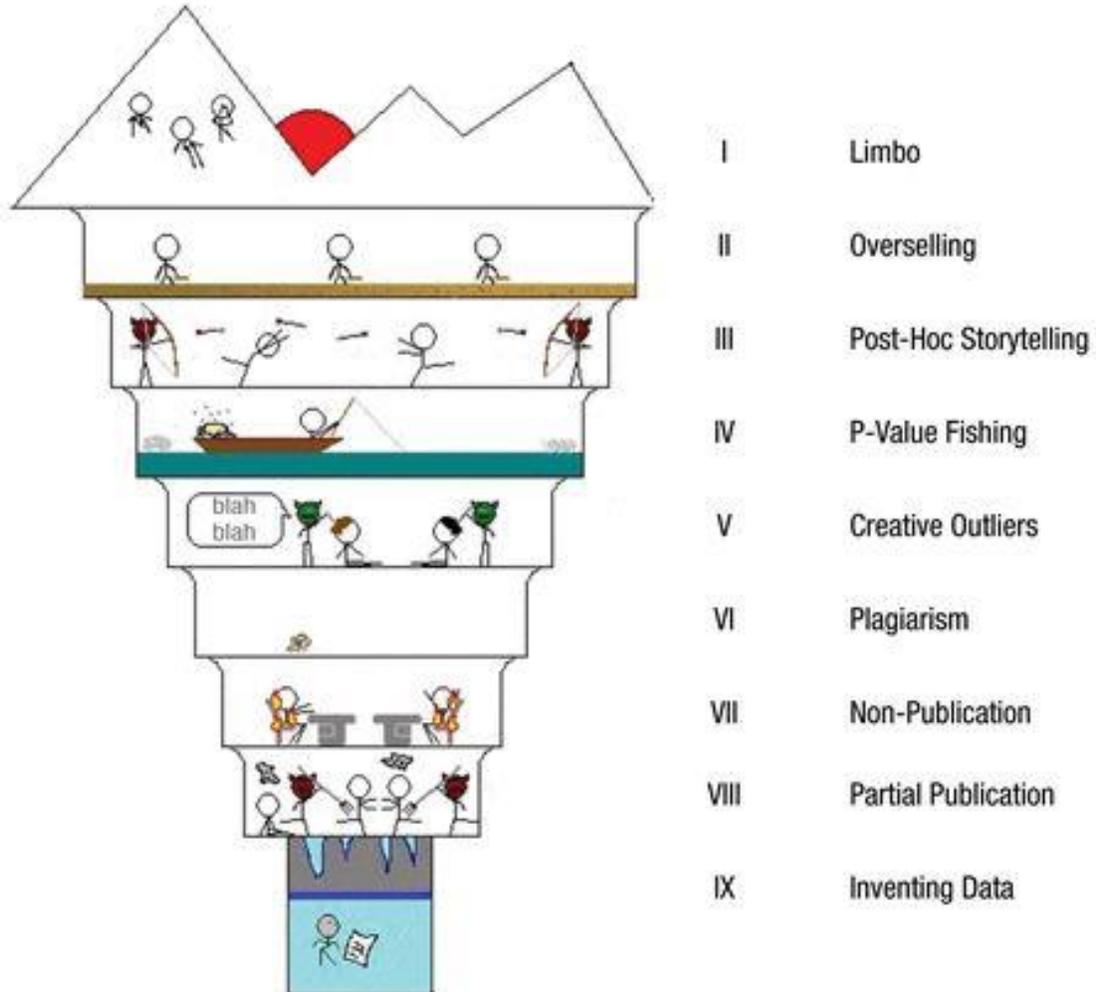
Jon Grahe, Pacific Lutheran University

# Collaborative replication and education project (CREP): Accelerating transition to full open science practices



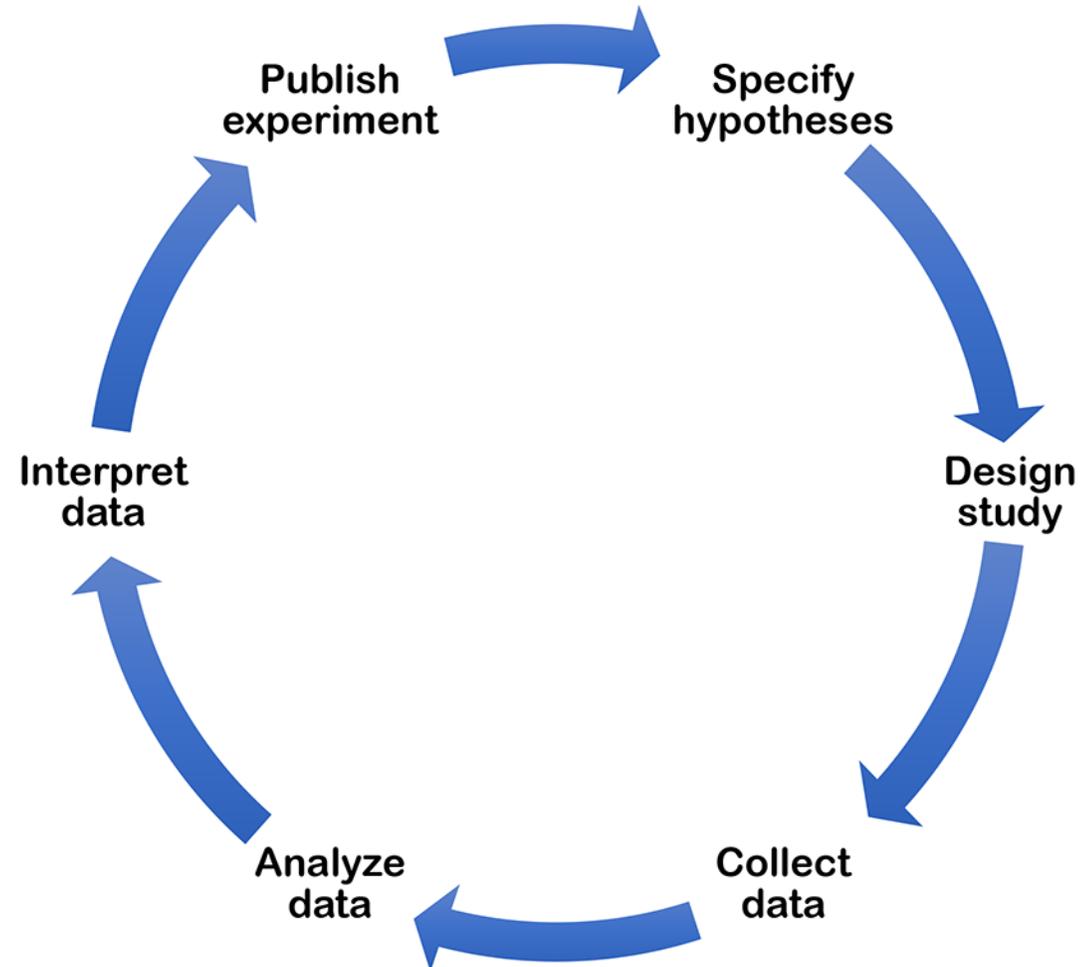
# Why needed?

## The Nine Circles of Scientific Hell

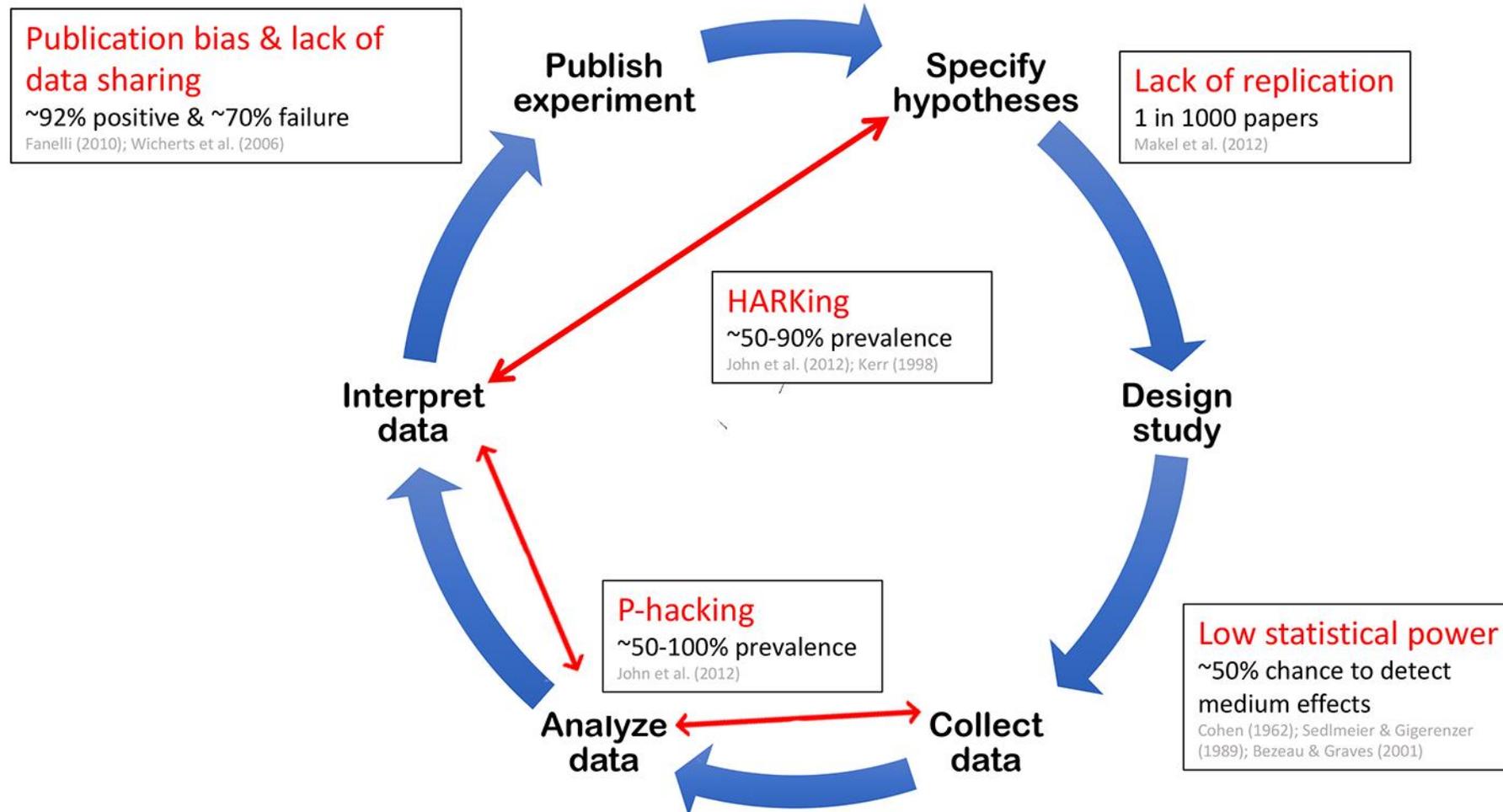


Neuroskeptic. (2012). The nine circles of scientific hell. *Perspectives on Psychological Science*, 7, 643-644.

# The Hypothetico-deductive model of the scientific method



# The Hypothetico-deductive model of the scientific method



# Pre-registration of replications



*Pre-registration (n)* = publication of data-collection and analysis plan  
**before collecting the data**



“Gold” pre-registration

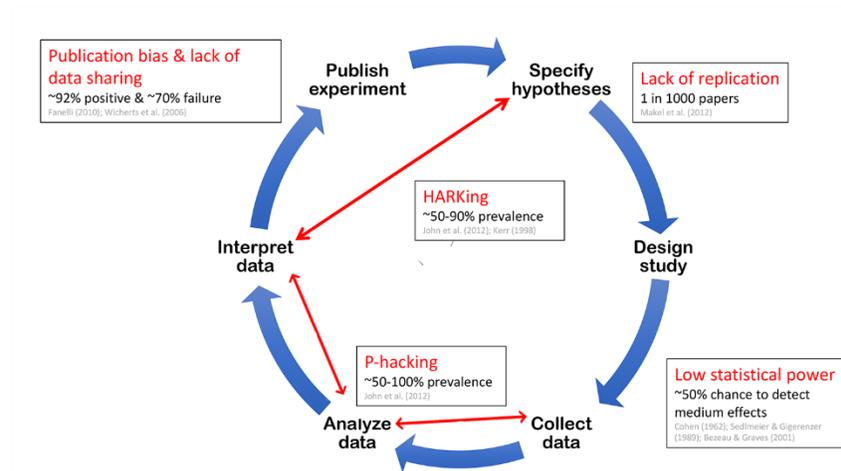
- Submit study plan to a journal
- Acceptance before start of data-collection



“Silver” pre-registration

- Publish study plan on the internet (e.g., OSF)
- Collect data and refer to pre-registration document

# Pre-registration of replications



- Simultaneously solves
    - File-drawer (all results published)
    - HARKing (impossible)
    - P-hacking (impossible)
    - Low power (high power required a priori)
- Ensures validity of the hypothetico-deductive model



# CREP Workflow

| Tasks                        | Students  |
|------------------------------|---|
| Claiming a study             | contact us & provide contact details, receive a CREP# and Executive Reviewer and Administrative Advisor   |
| Preparing a Study            | Fork the CREP study page to be replicated. edit and populate it with relevant   |
| First Pre-Data Review        | contact Executive Reviewer 2 weeks before data collection begins. Include all info on OSF page except for IRB approval. Please include CREP# and link to OSF page |
| Response to Review           | reply to exec reviewer about what changes were made.  |
| Data Collection              | REGISTER the OSF page using “OSF-Standard Pre-Data Collection Registration”. Send link to registered page to Executive reviewer before data collection            |
| Second -Post Analyses Review | add data component, add results component, notify Jon Grahe and administrative assistant that project is complete   |
| Post Review                  | update OSF page with any publications / presentations   |

# CREP Workflow

| Tasks              | Supervisors   |
|--------------------|---|
| Finding a study    | encourage students to review CREP   |
| Preparing a Study  | check that students are completing basic information                      |
| First Review       | check page first to give any preliminary feedback                         |
| Response to Review | assist students in addressing pressing issues                             |
| Second Review      | monitor student progress; advise on best practices                        |
| Post Review        | work with students on conference presentations and manuscripts as desired |

# CREP Workflow

| Tasks              | Administrators   |
|--------------------|--|
| Claiming a study   | add information to CREP Progress page, make sure contributor has best practice guidelines. Share CREP progress page with new contributor (view only) |
| Preparing a Study  | put link to student OSF page on our “in progress projects” on OSF page   |
| First Review       | Update CREP progress   |
| Response to Review | Update CREP progress   |
| Second Review      | update CREP progress, update OSF page moving approved study in Researchers and Findings page   |
| Post Review        | email contributors and ask them to add component “What I learned from the CREP project?”   |

# CREP Workflow

| Tasks         | Reviewers   |
|---------------|---|
| First Review  | review OSF page and original manuscript, identify any issue that would impact data collection; identify any suggestions for improving communication on OSF page; make sure page was forked from study page                            |
| Second Review | check data files are readable; data honesty statement (completion pledge); results reported correctly; study was preregistered; wiki descriptions of each component are informative; check to make sure the N > than minimum required |

Trends for you · Change

#nrksjakk  
1,908 Tweets

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79.3K Tweets

#EngvsNZ

#ENGvNZL  
14.6K Tweets

#CheerMeUpIn5WordsOrLess  
16.1K Tweets

Miriam Adelson  
6,951 Tweets

Presidential Medal of Freedom  
8,701 Tweets

#SaturdayMorning  
48.3K Tweets

All Blacks  
9,058 Tweets

Twickenham  
4,455 Tweets

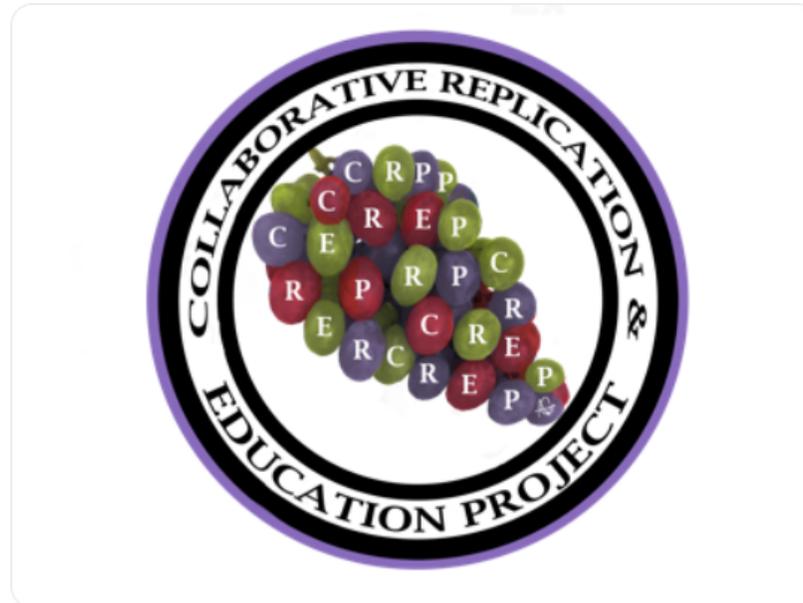


Hans Fredrik Sunde

@hfsunde

Follow

Brilliant text about @CREP\_psych by @Gerit\_Pfuhl: "Replications are not only necessary; they are the best way to learn how to conduct research." How come this isn't standard practice yet?  
[psykologisktidskrift.no/accelerating-o](http://psykologisktidskrift.no/accelerating-o) ...



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# Accelerating Open Science: The Collaborative Replications and Education Project (CREP)

9. NOVEMBER 2018

Written by: Gerit Pfuhl, Associate professor in psychology at UiT and NTNU.

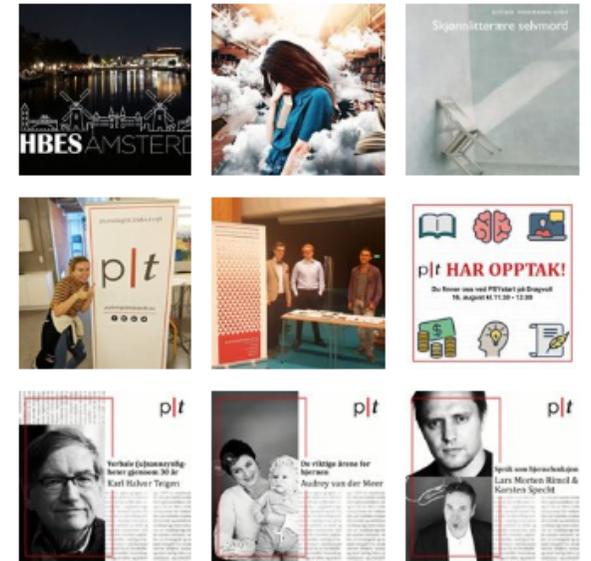
This article is from our newest edition of *Psykologisk Tidsskrift, Fagkritikk* (read more).

Recent years have seen a revolution in publishing and large support for open access publishing.... Les mer!



The CREP logo, CREP rhymes with grapes

Innleveringsfrist: 7.januar 2019



FØLG OSS PÅ SOSIALE MEDIER!



: The site will undergo maintenance between Nov 20, 2018 11:00 PM and Nov 21, 2018 12:30 AM (+0100 UTC). Thank you for your patience.

# Accelerated CREP - RRR: Turri, Buckwalter, & Blouw (2015)

Braeden Hall, Jordan Wagge, Christopher Chartier, Gerit Pfuhl, Stefan Stieger, Evie Vergauwe, Erica Musser, Leslie Cramblet Alvarez, Sara Alvarez Solas, Michael Schulte-Mecklenbeck, Andy Field, Elena Henderson, Hans IJzerman, Marianne Fallon, Asil Ozdogru, Michael Andreychik, Sau-Chin Chen, Waldir Sampaio, Anastasiia Tklich, Amy Nusbaum, Thomas Evans, Martin Voracek, Ulrich Tran, Sean Lee, David Redman, Sümeyra Özben, Nicole Mathis, Felizitas Pernerstorfer, Andree Hartanto, Martin Mækelæ, Florian Cova, Jack Arnal, Kaitlyn Werner, Erin Buchanan, Hannah Johnson, Vilius Dranseika, Kaminski Gwenaël, Samantha Schwegmann, Christoph Schild, Evin Yildirim, Yannick Michael Endres, Paula Bange, Kira Aschenbroich, Manyu Li, Annie Hanh Vu, Balazs Aczel, Lin Chia-Shien, bryandon chiu, Lim Ying, Neil Kirk, Nicole Legate, Miles Lowry, Lindsey Osborne, Lee Ru Xuan, Peter Szecsi, Yanna Weisberg, YU-HSUAN KU, Colleen Lamb, Anthony Krafnick, Russell Warne, Carmel Levitan, Daniel Storage, Krystian Barzykowski, Ewout Meijer, Corey Fincher, Carlota Batres, Robert Calin-Jageman, Mark Brandt, Jon Grahe

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Running head: RRR: TURRI, BUCKWALTER, & BLOW (2015)

Registered Replication Report: Turri, Buckwalter, & Blouw (2015)

Braeden F. Hall, Jordan R. Wagge, Christopher R. Chartier, Gerit Pfuhl, Stefan Stieger, Evie Vergauwe, Erica D. Musser, Leslie D. Cramblet Alvarez, Sara Alvarez Solas, Michael Schulte-Mecklenbeck, Andy P. Field, Elena Kelsey Henderson, Hans IJzerman, Marianne Fallon, Asil A. Özdogru, Michael R. Andreychik, Sau-Chin Chen, Waldir M. Sampaio, Anastasiia Tklich, Amy T. Nusbaum, Thomas Rhys Evans, Martin Voracek, Ulrich S. Tran, Sean T. H. Lee, David Redman, Sümeyra Özben, Nicole Mathis, Felizitas Pernerstorfer, Andree Hartanto, Martin J. Mækelæ, Florian Cova, Jack D. Arnal, Kaitlyn M. Werner, Erin M. Buchanan, Hannah Johnson, Samantha Schwegmann, Vilius Dranseika, Justas Žilys, Gwenaël Kaminski, Christoph Schild, Evin Yildirim, Yannick Michael Endres, Paula Bange, Kira Aschenbroich, Manyu Li, Annie Hanh Vu, Balazs Aczel, Peter Szecsi, Lin Chia-Shien, Chiu Chuan Peinn, Lim Ke Ying, Neil W.

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## Abstract

According to the Justified True Belief (JTB) account of knowledge, a person's ability to know something is defined by having a belief that is both justified and true (i.e., knowledge is justified true belief). However, this account fails to consider the role of luck. In 1963, Gettier argued that JTB is insufficient because it does not account for ...

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Thanks for listening, Happy to take your questions?



# How do we get there?

