Lecture 27: New directions

Monday, December 4, 2023

Your Teaching Fellows:

003/004: Zahra Abolghasem Bronwen Grocott

Vasileia Karasavva Ni An

010: Thalia Lang

Ruoning Li

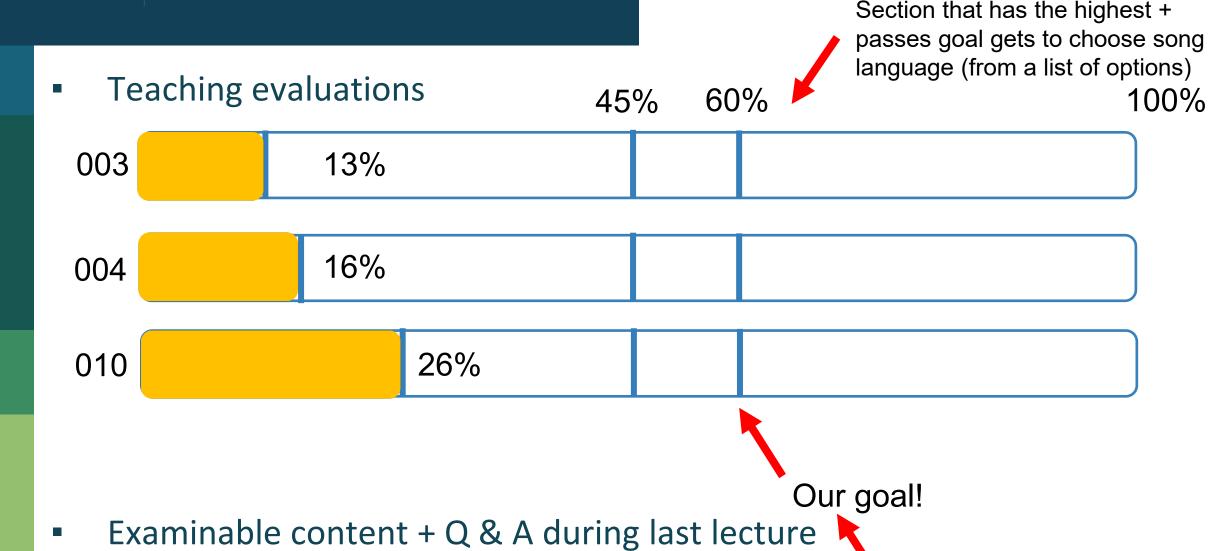
Malina Lemmons

Irene Wen

Lectures: MWF 12:00 PM - 1:00 PM (003); 1:00 PM - 2:00 PM (004); 2:00 PM - 3:00 PM (010)

Office hours: Tuesdays 2:00 PM – 4:00 PM

Reminders



Finals review session: Dec 14, 2-3:30, Zoom

Ben embarrasses himself and sings a song on Wed

Triangulate studies:

Study 1: Relationship between belief about explanation for obesity, and beliefs about weight control Study 2: Manipulating explanation for metabolism affects people's beliefs about weight control

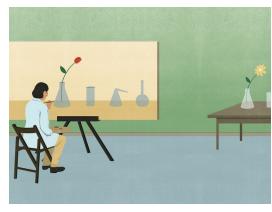
Study 3: Manipulating explanation for obesity affects how much one eats in a study

- Replicate studies:
 - Can other researchers get the same effect?

Dar-Nimrod, Cheung, Ruby, & Heine (2014)

- Meta-analyses:
 - Across all studies done, how strong is the overall effect?

Replications can take multiple forms



Conceptual replication



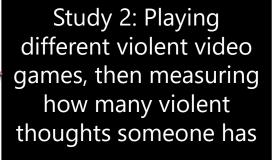
Direct replication

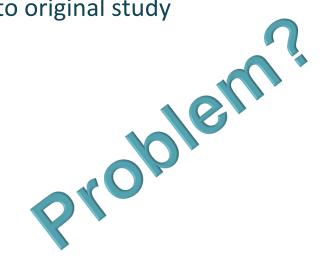


Replication-plus-extension

- Conceptual replications
 - Key question:
 - What was original study trying to examine?
 - New study:
 - New design and/or materials that are conceptually similar to original study

Study 1: Playing violent video games, then measuring one's likelihood of getting into a fight





- Direct replications
 - Key question:
 - Was the original finding real, or was it by chance?
 - New study:
 - Exactly copying methodologies and materials as original study
 - Compensates for problems with conceptual replications



- Replication-plus-extension
 - Key question:
 - Was the original finding real, and what else can I do with it?
 - New study:

Partially uses the same materials as the original, but adds additional parts to address additional

questions

Study 1: Manipulate explanation for criminality affects perceptions of criminal

Study 2: Manipulate explanation criminality affects perceptions of criminal and attributions people make for crimes

- Meta-analysis
 - Allows researchers to get a better understanding of what the actual effect might be

Problem?



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Publishing null studies

Journal of Articles in Support of the Null Hypothesis



INDEX ABOUT MANUSCRIPT REVIEWER EDITORIAL CONTACT SUBMISSION SUBMISSION

Welcome to the Journal of Articles in Support of the Null Hypothesis. In the past other journals and reviewers have exhibited a bias against articles that did not reject the null hypothesis. We seek to change that by offering an outlet for experiments that do not reach the traditional significance levels (p < .05). Thus, reducing the file drawer problem, and reducing the bias in psychological literature. Without such a resource researchers could be wasting their time examining empirical questions that have already been examined. We collect these articles and provide them to the scientific community free of cost.

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Volume 13, No. 1 (July 2016)

The Lies we Live: Using the Verifiability Approach to Detect Lying about Occupation

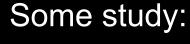
Louise Jupe, Aldert Vrij, Sharon Leal, Samantha Mann, Galit Nahari

Ageism, Illegal Drug Use, and Young Adults' Experiences With Illness, Dementia and Death

Andrew Hughes, TaClesia Bolar, Shelia M. Kennison

Who's Afraid of Death and Terrorists? Investigating Moderating Effects of Sense of Coherence, Mindfulness, Neuroticism, and Meaning in Life on Mortality Salience





Result 1: Significant

Result 2: Non-significant

Result 3: Significant

Remember?



Marc Hauser



Diederik Stapel

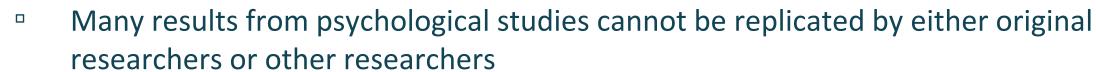


Lawrence Sanna



Dirk Smeesters

"Replication crisis" in psychology



Due to Questionable Research Practices (QRPs)/p-hacking

Over half of psychology studies fail reproducibility test

Most scientists 'can't replicate studies by their peers'

Largest replication study to date casts doubt on many published positive results.

Scientists Replicated 100 Psychology Studies, and Fewer Than Half Got the Same Results

Psychology's Credibility Crisis: the Bad, the Good and the Ugly

As more studies are called into question and researchers bicker over methodology, the field is showing a healthy willingness to face its problems

Questionable studies?

Daryl Bem – Evidence for extrasensory perception





Thursday January 27, 2011

Questionable studies?

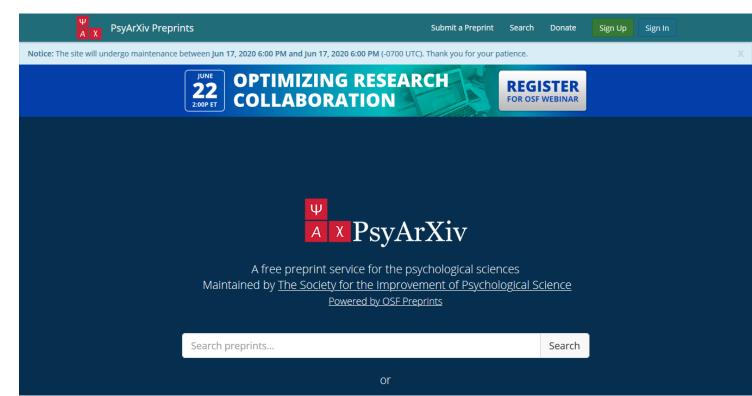
Lady Macbeth Effect





- Open Science
 - Movement to allow data and research to be accessible to everyone
 - Encourages transparency, community, and collaboration
 - Allows for better scrutiny and quality assessment of research

- Open Science Preprints
 - Unpublished work published online (or print that is pre-publication)
 - No pay-wall, publically accessible
 - Drawback: Not peer-reviewed



A Preregistered Study of Competing Predictions Suggests That Men Do Overestimate Women's Sexual Intent

Damian R. Murray, Sean C. Murphy, William von Hippel, Robert Trivers, Martie G. Haselton First Published January 5, 2017 other











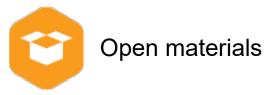




- Open Science
 - Psychological Science's Open Badges



Authors provide data for anyone to access and analyze



Authors provide study materials for anyone to access and check/replicate



Authors registered hypotheses and analysis plan before running the study

- Open Science
 - Open Science Foundation's Registered Replication Reports (RRRs)
 - Write proposal to register hypothesis
 - Register materials and plan of analysis
 - Upload data and all analyses
 - Write report to address reproducibility of registered hypothesis

