# Mass mobilizing students for open-science & replications

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### Check our reports!

https://tinyurl.com/hkureplications2019



Detailed pre-registrations with analysis plan on simulated dataset. Terrific APA submission ready writeups. Comprehensive open-science supplementary files.

[2018 projects: https://tinyurl.com/hkureplicationexamples]

### Autumn 2019–20

### 2019-20: ~34 replications + extensions

### **Completed:**

- **II** replications \* 2 samples: Teams of 2 students each.
- Amazon Mechanical Turk: American
- Prolific Academic: British
- Very large samples. Power: 99+%.
- -2 extensions each: One extension per sample.

#### In process:

• 23 replications + extensions by guided thesis students.

# **Evaluating replications**

|                                  | original effect size point estimate |    |     | Replication outcome                    |
|----------------------------------|-------------------------------------|----|-----|--|
| Driginal Study                   |                                     | F  |     |  |
| Replication #1                   |                                     | ⊢∎ |     | signal - consistent                    |
| Replication #2                   |                                     |    | ⊢∎i | signal - inconsistent, larger          |
| Replication #3                   |                                     | ⊨  |     | signal - inconsistent, smaller         |
| Replication #4                   | <b>⊢</b>                            |    |     | signal - inconsistent, opposite        |
| Replication #5                   | F                                   |    |     | no signal - consistent                 |
| Replication #6                   | ŀ                                   |    |     | no signal - inconsistent               |
| Replication #7                   | ŀ                                   | •  |     | no signal - inconsistent (less precise |
| Meta-analytic estimate of replic | cations                             | •  |     |  |

# 57 pre-registered replications of impactful JDM articles completed

# Successful: 38 (68%) Inconclusive: 9 (16%) Unsuccessful: 10(18%)

# 20+ replications in-process, join us!



Visit our website

## **Replication process**

### Qualtrics survey

<u>Guide</u> Blue: Students Green: Peers/classmates Orange: External review Red: Instructor/TA

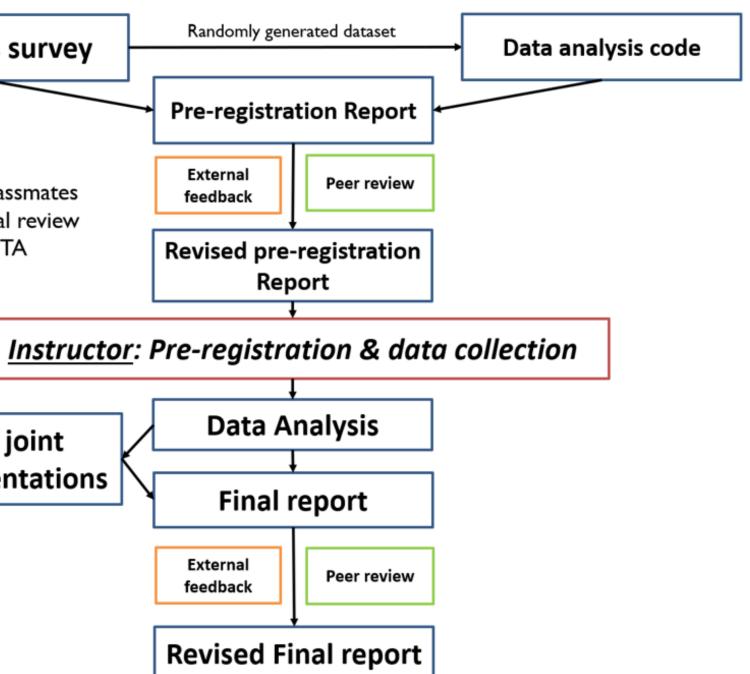
Project joint class presentations

**Teaching materials – implementing open-science:** http://mgto.org/teaching-courses/ **Collaborative pre-registered replication guide:** https://tinyurl.com/replicationguide **Replications Cloud drive:** https://tinyurl.com/hkureplicationfolder **Collaborative JAMOVI / JASP/ R guides:** https://tinyurl.com/jamovijasprguide Collaborative effect size, CIs, & power: https://tinyurl.com/effectsizepowerguide **Collaborative extensions guide:** https://tinyurl.com/extensionsguide Templates for Replication Registered Report manuscript & supplementary: https://tinyurl.com/RRmanuscripttemplate and https://tinyurl.com/RRsupplementarytemplate

See list of concluded and planned replications: http://mgto.org/pre-registered-replications/ Watch videos about science crisis: http://mgto.org/open-science/ Join mailing list: http://tinyurl.com/giladmailinglist

If you're an Early Career Researcher (advanced PhD, postdoc, assistant professor) committed to open-science and interested in JDM, we invite you to join us. Read about joining the project: https://tinyurl.com/joinmassreplication





### **Open Resources**

### Learn more

## ECRs: Join us!