On the wonders of replication:
A student perspective

Kristoffer Klevjer
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• Power posing
• Power posing

Removed screen-shot from TED.com, highlighting Amy Cuddy’s talk “Your body language may shape who you are” as the second most watched TED-talk (54 mill. views)
• Power posing
• Pencil in your mouth
The replication crisis *in science*
The replication crisis in science

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The replication crisis *in science*

• Highlights the need for solid, preregistered, direct replications
• This is beneficial for:
  • **Science**
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  - *Students*
  - *Supervisors*
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Background:

• Master’s degree in psychology
  • Supervisor: Prof. Gerit Pfuhl - UiT

• Direct+ replication – Collaborative Replications and Education Project (CREP)

• Psychological Science Accelerator

• Accelerated CREP
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  - Supervisor: Prof. Gerit Pfuhl - UiT
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- Psychological Science Accelerator
- Accelerated CREP
Direct replication – Easy right?
Direct replication – Easy right?

• Paper-and-pencil or computer based?
• Male or female experimenter?
• Single or group testing?
• Hand-outs or verbal instructions? Both?
• Whom did they recruit?
Collaborative Replications and Education Project

- Strict adherence to data collection protocols
  - Down to a written script of everything I said
  - Incl. a video of pilot-testing
- Protocols and procedures had to be approved prior to data collection
Collaborative Replications and Education Project / Preregistration

• Solid method section
• Adherence to protocols
• Read and evaluate articles
• Confirmatory vs. exploratory hypotheses
• Publishing process
The replication crisis *in science*

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  - Supervisors
Beneficial for: Supervisors
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- Students get a thorough introduction
- Increased trust in students, and their collected data
Beneficial for: Supervisors

• Students get a thorough introduction
• Increased trust in students, and their collected data
• Time-effective alternatives for bachelors students
• Direct+ replications for other levels at no cost
Beneficial for: Supervisors

• Students get a thorough introduction
• Increased trust in students, and their collected data
• Time-effective alternatives for bachelors students
• Direct+ replications for other levels at no cost
• Exchange ideas with other researchers
• Network with other researchers
The Wonders of Replication

• It’s beneficial for
  • Science
  • Students
  • Supervisors
The Wonders of Replication: Pitch a replication project the next time a student approaches you!

• Thank you for listening!
• Questions?

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Sources and further reading:

- Collaborative Education and Replication Project: osf.io/wfc6u/wiki/home & @twitter: CREP_psych
- Psychological Science Accelerator: psysciacc.org