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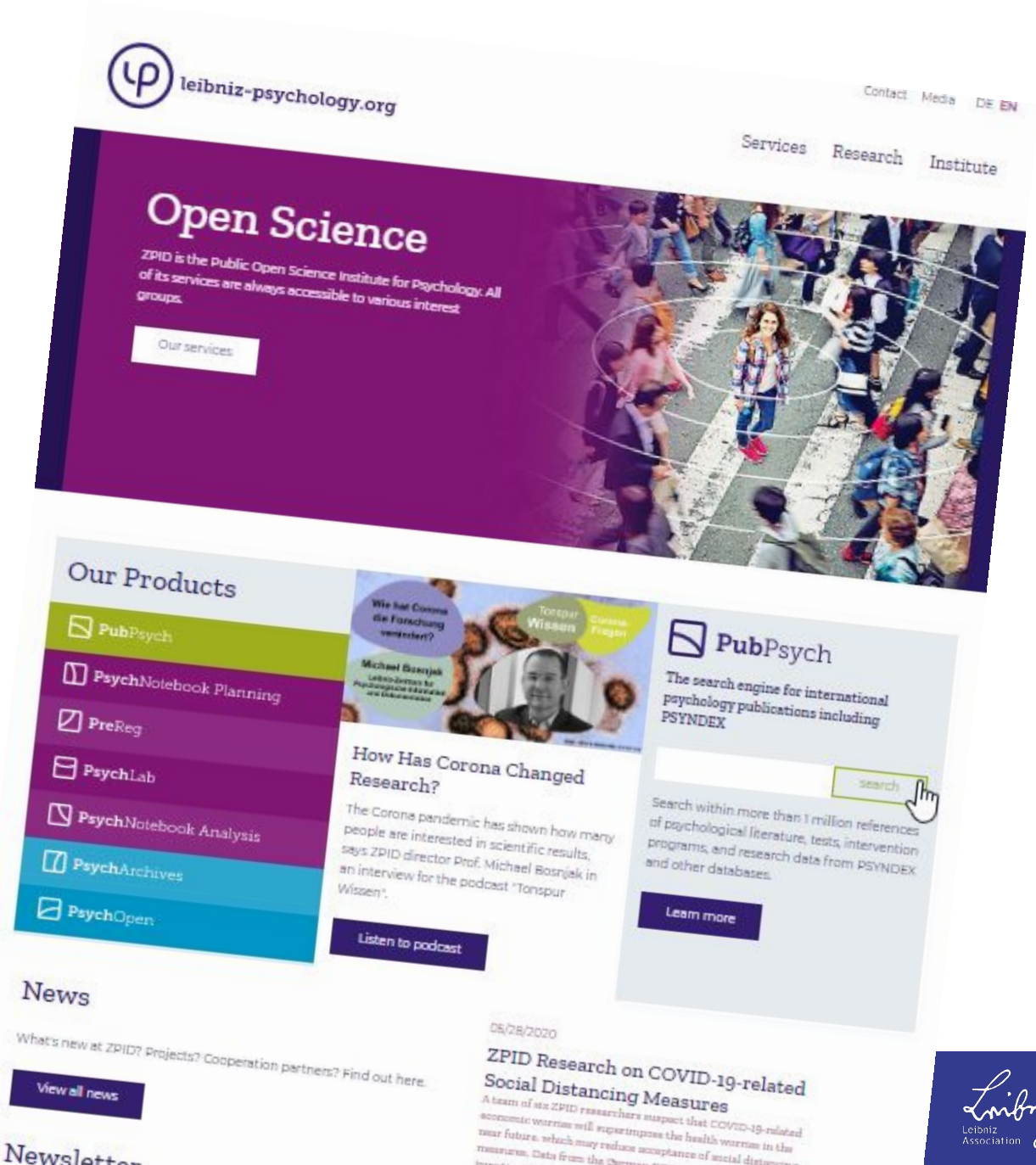

http://bit.ly/ZPIDRoadshow-2020-Bosnjak

leibniz-psychology.org (ZPID)

- … is a Public Open Science Institute for Psychology and related disciplines.
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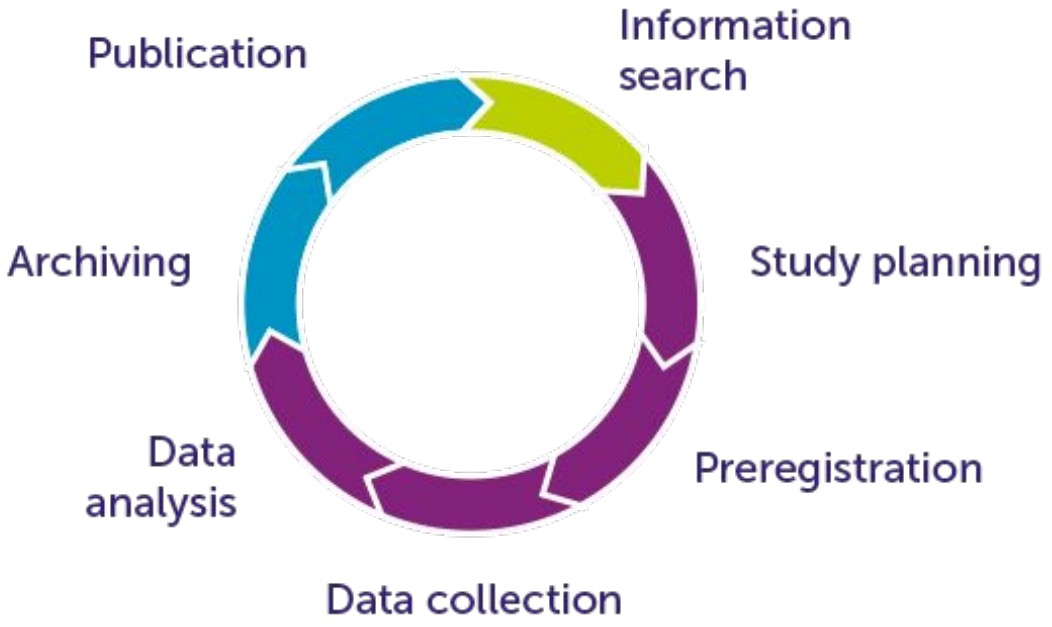

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Supporting the (scientific) community in psychology (and beyond) to make research

- accessible
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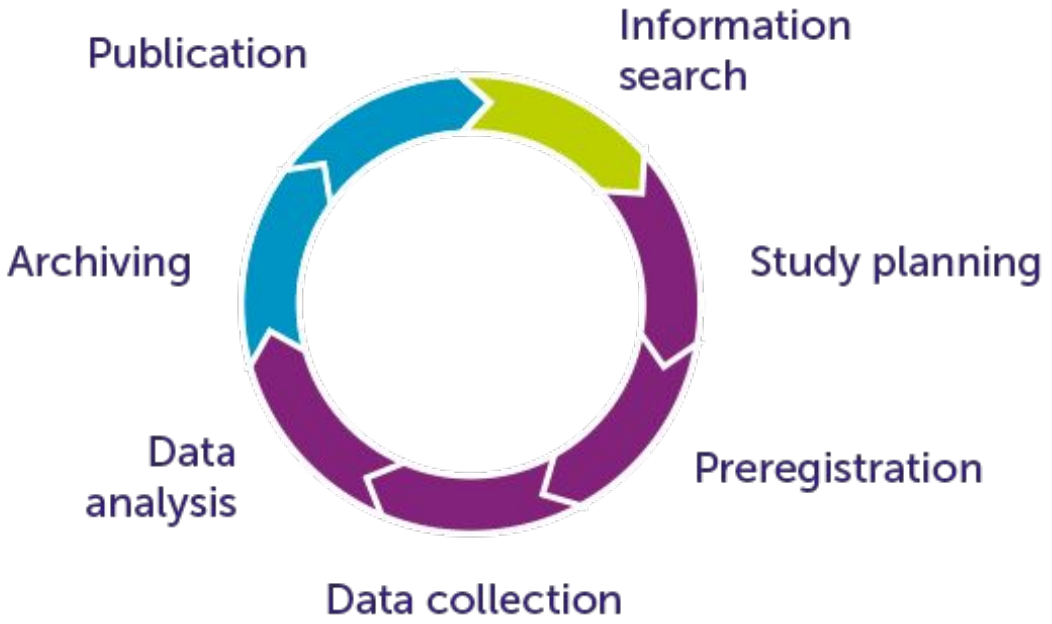
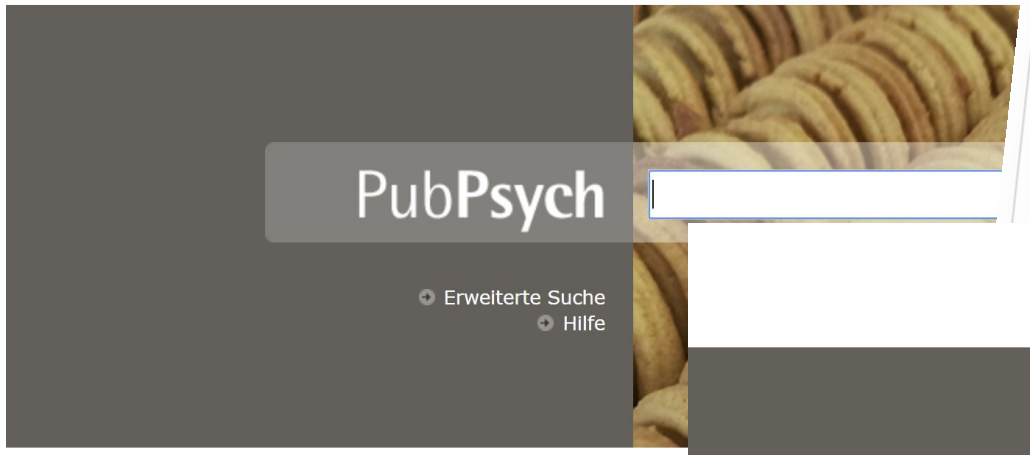


Information search

PubPsych



En | Es | Fr | **De**
Startseite
Hilfe

https://www.pubpsych.eu/

Über PubPsych · Nutzungsbedingungen · Kontakt · Impressum & Datenschutz

PubPsych: Usage Scenarios

- Identifying pertinent sources from Psychology research in Europe, namely publications, data, study material, and more for research purposes.
- Easy access to Open Access Publications (using the unpaywall functionality).
- Using PubPsych as a low-hurdle educational tool for courses
- Using PsychPorta (under development) to explore the entire semantic space of a Psychology-related topic.

Information search

PsychTopics

Set range of publication years:

1980 2018

Reset

The psychological research topics from the German-speaking countries were identified automatically using Topic Modeling. **Conclusions should be drawn carefully.**

The topics consist of standardized keywords of the psychological reference database PSYNDEX.

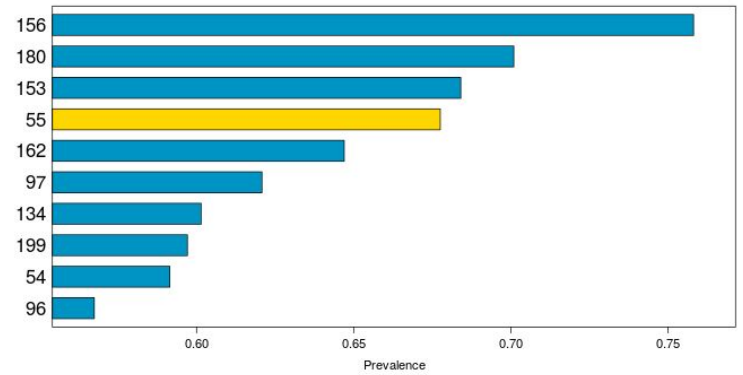
Topic ***prevalence*** is the mean topic probability in the corpus of publications (in percent).

Feedback

leibniz-psychology.org

Popular by Year | Popular by Period | Hot Topics | Cold Topics | All Topics | Expected Trends

Popular topics in 2018



Select year: 1980 2018

ID	Topic	Prevalence	Search
156	child psychotherapy, adolescent psychotherapy, psychotherapeutic techniques, psychotherapeutic processes, behavior therapy	0.76	Search PSYNDEX
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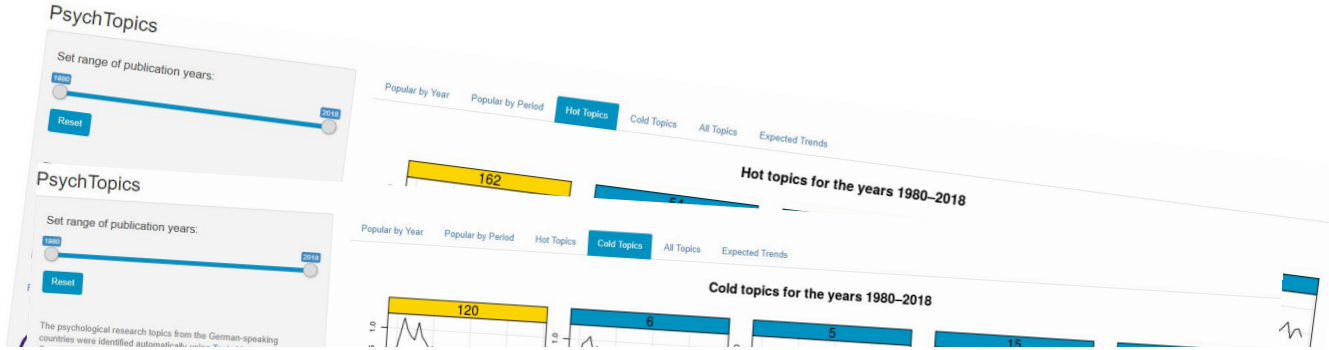

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Compare the observed with the expected course at a desired point in time.

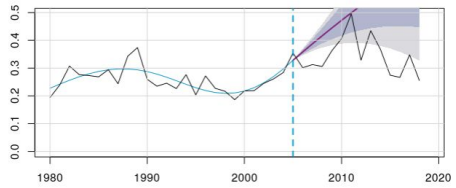
Search for topics

Please enter search term

A list of possible search terms can be found here

ID	Topic
1	therapeutic processes, physicians, decision making, client participation, interpersonal communication
2	drug usage, drug abuse, alcohol drinking patterns, tobacco smoking, epidemiology
3	adolescent development, personality development, childhood development, psychosocial development, self concept
4	scientific communication, history of psychology, psychologists, scientists, psychology
5	family relations, family therapy, psychotherapeutic techniques, systems, family systems theory
6	prisoners, juvenile delinquency, incarceration, psychosocial rehabilitation, prisons
7	sports, athletes, athletic performance, sport psychology, athletic training
8	geriatric patients, geriatric psychotherapy, geriatrics, aging, geropsychology
9	social casework, social workers, professional identity, professional supervision, professional competence
10	drug rehabilitation, drug addiction, drug abuse, methadone maintenance, heroin addiction
11	urban environments, housing, architecture, social environments, home environment

Observed and expected trend of Topic 1



Select year: 1981 2005 2018

https://abitter.shinyapps.io/psychtopics/

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- Identifying and using validated open access questionnaire items for your own research.
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- Current spectrum: Attitude tests, developmental measures, intelligence tests, interest inventories, clinical tests, achievement, aptitude and ability tests, personality tests, scholastic achievement tests, sensorimotor measures, behavior scales

Study planning → **Data analysis**

PsychNotebook — PsychNotebook

notebook.org/workspaces/11

leibniz-psychology.org

PsychNotebook

Projekte Hallo

Bearbeiten Teilen Löschen

expStudy_WiPro2020

Geteiltes Projekt mit Camila Azúa Michael Bosnjak

Das sind meine Materialien für den Analyseteil der experimentellen Studie.

JupyterLab. Eignet sich zur Erstellung von Präsentationen oder Textdokumenten, die ausführbaren Code enthalten

RStudio. Eignet sich zur Inspektion und Analyse von Daten.

ben Sie Fragen? Kontakt

iben Sie uns eine E-Mail. Wir helfen Ihnen gern.

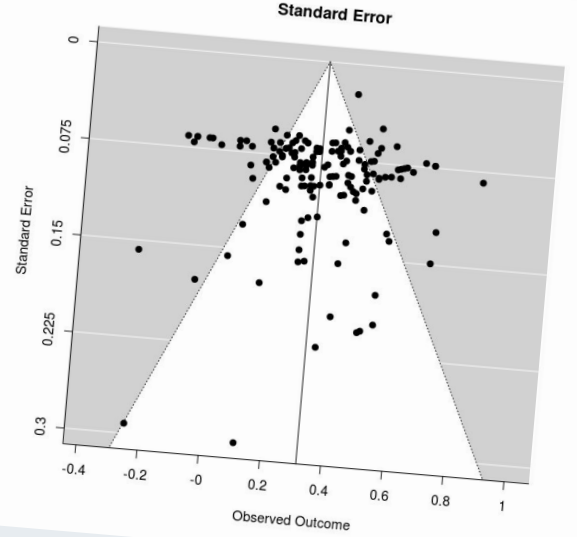
Folgen Sie uns.

Auf Twitter und Facebook informieren wir Sie über Neuigkeiten aus dem ZPID.

Publication Bias

We also performed a funnel plot analysis to investigate if there was any kind of publication bias toward over- or underpowered studies in our data set. As the figure shows, the majority of the effect sizes have rather low standard errors (smaller than 0.1), meaning that they were estimated with a reasonable degree of precision. Also, there appears to be a moderately asymmetric relationship between the magnitude of effect sizes and their standard errors, there is practically no reason to assume that publication bias is a problem in the present meta-analysis. The funnel plot also gives evidence for heterogeneity among effect sizes.

```
In [10]: 1 funnel(unconditional, main="Standard Error")
```



PsychNotebook: Usage Scenarios

- Collaborative planning, analyzing, and documenting research projects.
- Collaborative teaching projects.
- One-click archiving functionality for long-term preservation.

Preregistration

PreReg

Registered Reports Workshop 2018

PreReg

Preregistration & ZPID | Track Types | Submission Information | FAQ

Preregistration in Psychology

By using preregistration, researchers can demonstrate that their studies have been conducted, analyzed, and reported as

ZPID promotes preregistration via **PreReg in Psychology** by offering a domain-specific repository (Repository Track) and data collection for high-quality preregistrations in the field of psychology (Lab Track).

Preregistrations submitted to **PreReg in Psychology** will be archived in PsychArchives, ZPID's repository for psychologica timestamp and a DOI (digital object identifier) to become citeable.

Successful applications for the Lab Track are awarded a free-of-charge data collection via the service PsychLab which cor the sample for an online study or to outsource the data collection of an eye tracking (or any pc-based) study to our on-sit

About ZPID

ZPID (Leibniz Institute for Psychology Information) is a public open science institute researchers by providing services related to information search, study planning and archiving, and publication. Find out more about ZPID via www.leibniz-psychology.o

PreReg: Usage Scenarios

- Framework to develop (pre-registered) study protocols, based on agreed-upon templates endorsed by professional associations (currently: APA, BPS, DGPs plus ZPID). APA style guide-compliant.
- Notarized proof of authorship in the earliest possible stage of idea development.
- Educational tool to train students in study planning.
- Entry ticket for free data collection in PsychLab (see next).

Data collection

PsychLab

PsychLab: Usage Scenarios

- Low-hurdle data collection:
  - Current model:
    Proposal > Proposal Decision > Own Data Collection > Paper preparation
  - Our model:
    Protocol > Protocol Decision > **Independent** Data Collection for free > Protocol finalization = Paper
- Large-scale panel and top-notch technology for eye tracking
- Free of charge, only quality is decisive for acceptance/refusal
- Long-term preservation of DROs (see next)

leibniz-psychology.org

PsychArchives

Contact

Home Contribute Browse

Disciplinary Repository for Psychological Science

PsychArchives is a disciplinary repository preserving a variety of digital research objects (DROs), with 21 different publication types (preprints, primary, and secondary publications), research data, tests, preregistrations, multimedia and code. We provide easy and free access to DROs according to the FAIR principles, which implies the commitment to ensure that research and research data are findable, accessible, interoperable, and reusable.

Please find all content regarding COVID-19 Snapshot MOnitoring (COSMO Standard) in a special collection.

Start a new search

Search

Highlighted Submissions

COVID-19 Snapshot MOnitoring (COSMO Standard): Monitoring knowledge, risk perceptions, preventive behaviours, and public trust in the current coronavirus outbreak - WHO standard protocol (WHO Regional Office for Europe) 2020-03-17 studyProtocol

Recent Submissions

The PSA Calls for Rapid and Impactful Study Proposals on COVID-19 (Psychological Science Accelerator) 2020-06-01 other

Supplementary

PsychArchives in a nutshell

Shared Digital Research Objects (DRO)
- research outputs from the entire cycle of psychological research are welcome.

Citable and discoverable
- uploads are assigned a Digital Object Identifier (DOI) to make them easily and uniquely citable.

Open licensing
- fostering re-use and open science.

Safe
- your research output is stored safely for the future at a sustainable, publicly funded infrastructure.

ychArchives

leibniz-psychology.org

DataWiz

DataWiz is a free data management system that helps prepare research data.

DataWiz ...
- facilitates high-quality documentation according to current standards.
- enables collaborative and distributed work on projects.
- ensures the long-term reusability of research data.

DataWiz covers the entire research data management process:

Creation
- Organize and document research projects
- Create data management plans adapted to the requirements of various sponsors (BM DFG)

Processing
- Export study documentation for preregistrations
- Work together with specific assignment of access rights

Analysis
- Import and version control records
- Read variable descriptions from SPSS and convert into codebooks
- Convert to relevant data formats

chiving and reuse
- Export entire project or individual studies into long-term readable formats for your own re
- Provide via PsychArchives, the ZPID repository

ting started with DataWiz:

need a DataWiz account that you can create here. After logging in with your DataWiz us

PsychArchives / DataWiz: Usage Scenarios

- Generating a data management plan using DataWiz for a prospective study (as requested by an increased number of funding institutions).
- Reproducible documentation of already collected data using DataWiz.
- Free long-term preservation of own DROs, e.g. supplements of publications, theses, presentations/course material, video material, and more. DOI-identifiable, GDPR-compliant, fine-grained access levels.
- Growing DRO-source for research and teaching.

PsychOpen

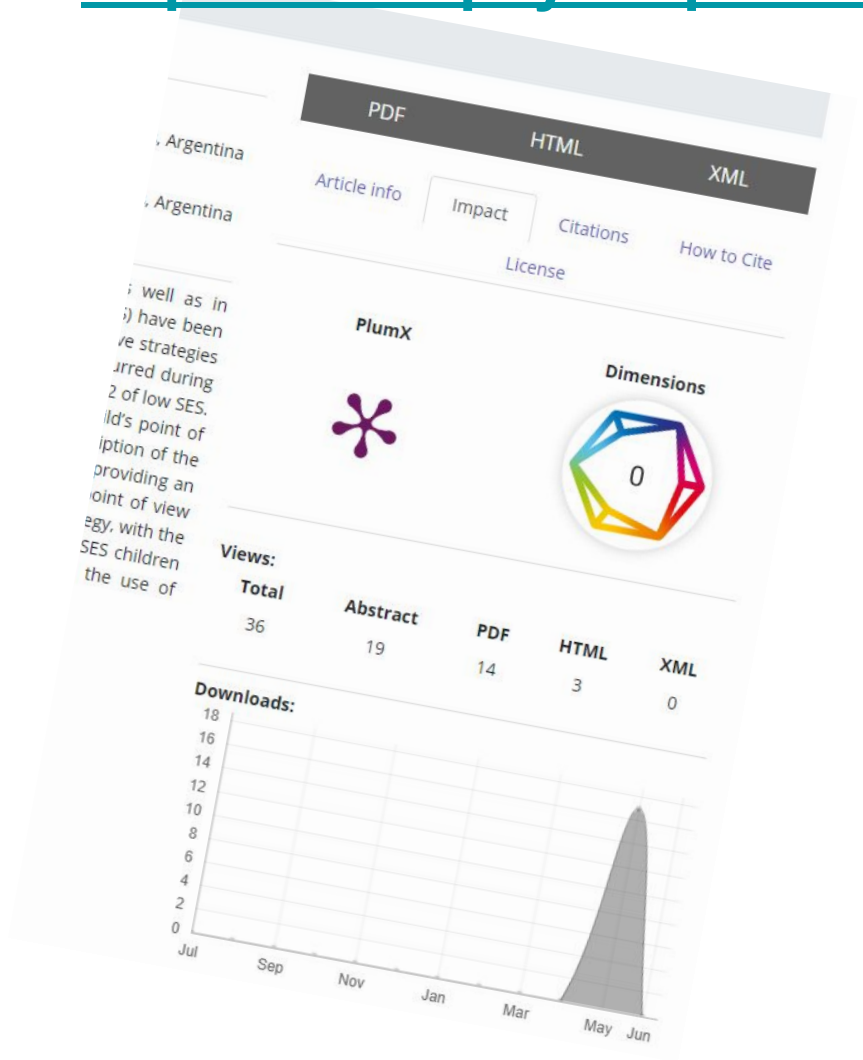
https://www.psychopen.eu/

PERSONALITY SCIENCE

Quantitative and Computational Methods in Behavioral Sciences

METHODOLOGY
European Journal of Research Methods for the Behavioral and Social Sciences

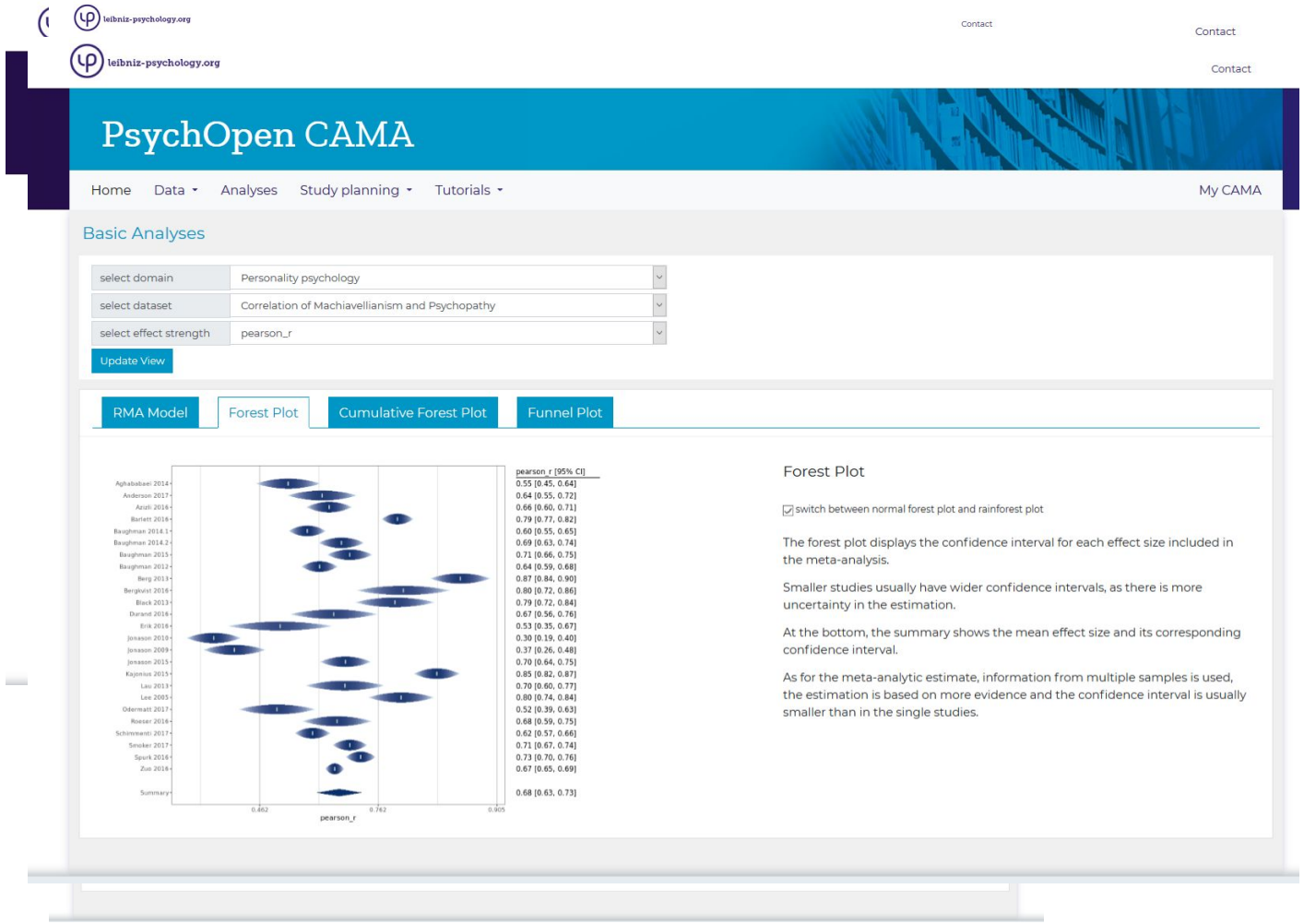
Sexual Offending
Theory, Research, and Prevention



PsychOpen GOLD: Usage Scenarios

- *For readers:* Free articles in rising star journals, extended functionalities (impact, related literature, archive integration, notebook integration, etc.)
- *For researchers:* Open access publication opportunity in highly visible/accessible journals, no APCs
- *For professional associations:* Free journal publishing opportunity, high-quality publishing services offered by ZPID

PsychOpen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PsychOpen CAMA
Home
Data
Analyses
Study planning
Tutorials
My CAMA
Basic Analyses
select domain
Personality psychology
select dataset
Correlation of Machiavellianism and Psychopathy
select effect strength
pearson_r
Update View
RMA Model
Forest Plot
Cumulative Forest Plot
Funnel Plot
pearson_r [95% CI]
0.55 [0.45, 0.64]
0.64 [0.55, 0.72]
0.66 [0.60, 0.71]
0.79 [0.77, 0.82]
0.60 [0.55, 0.65]
0.69 [0.63, 0.74]
0.71 [0.66, 0.75]
0.64 [0.59, 0.68]
0.87 [0.84, 0.90]
0.80 [0.72, 0.86]
0.79 [0.72, 0.84]
0.67 [0.56, 0.76]
0.53 [0.35, 0.67]
0.30 [0.19, 0.40]
0.37 [0.26, 0.48]
0.70 [0.64, 0.75]
0.85 [0.82, 0.87]
0.70 [0.60, 0.77]
0.80 [0.74, 0.84]
0.52 [0.39, 0.63]
0.68 [0.59, 0.75]
0.62 [0.57, 0.66]
0.71 [0.67, 0.74]
0.73 [0.70, 0.76]
0.67 [0.65, 0.69]
0.68 [0.63, 0.73]
0.462
0.762
0.905
pearson_r
Forest Plot
switch between normal forest plot and rainforest plot
The forest plot displays the confidence interval for each effect size included in the meta-analysis.
Smaller studies usually have wider confidence intervals, as there is more uncertainty in the estimation.
At the bottom, the summary shows the mean effect size and its corresponding confidence interval.
As for the meta-analytic estimate, information from multiple samples is used, the estimation is based on more evidence and the confidence interval is usually smaller than in the single studies.

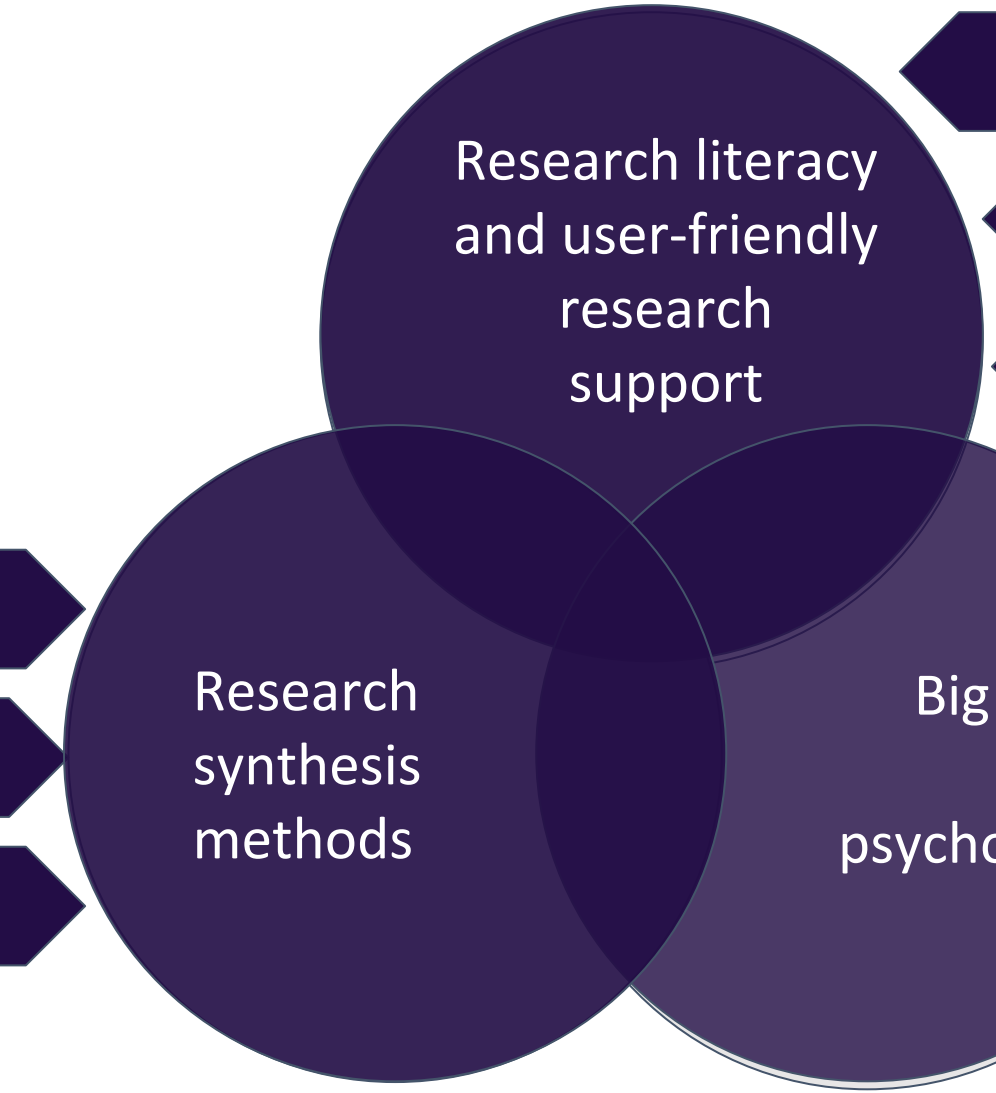
WORK IN PROGRESS

PsychOpen CAMA: Usage Scenarios

- Continuously updated evidence on hotspot topics in Psychology
- Planning and implementation tool for your own meta-analyses
- Tool to let the community update your meta-analysis
- Valuable source for teaching evidence-based research issues / research methods classes

Research at ZPID

Research at ZPID



- Dealing with contradictory evidence
- Evidence-based thinking and epistemic change
- Open science literacy
- Data collection issues
- Quality appraisal systems
- MASEM
- Hotspots topics in Psychology
- Theory-driven usage of big data
- Data processing and curation issues

Research Synthesis 2018 & 2019

Open Science 2019

Big Data 2018 & 2019

Workshop with Icek Ajzen 2018

Michael Bošnjak
Edgar Erdfelder
(Editors)

Hotspots in Psychology 2018

Michael Bošnjak
Timo Gnambs
(Editors)

Hotspots in Psychology 2019

Frank Renkewitz
Moritz Heene
(Editors)

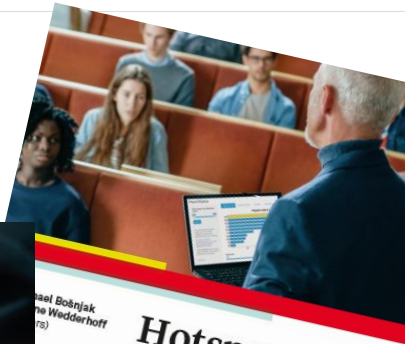
Open Science in Psychology

Progress and Yet Unsolved Problems

Mike W.-L. Cheung
Suzanne Jak
(Editors)

Big Data in Psychology

Methods and Applications



Michael Bošnjak
[illegible] Wedderhoff
(Editors)

Hotspots in Psychology 2020

http://lifp.de/mediacenter

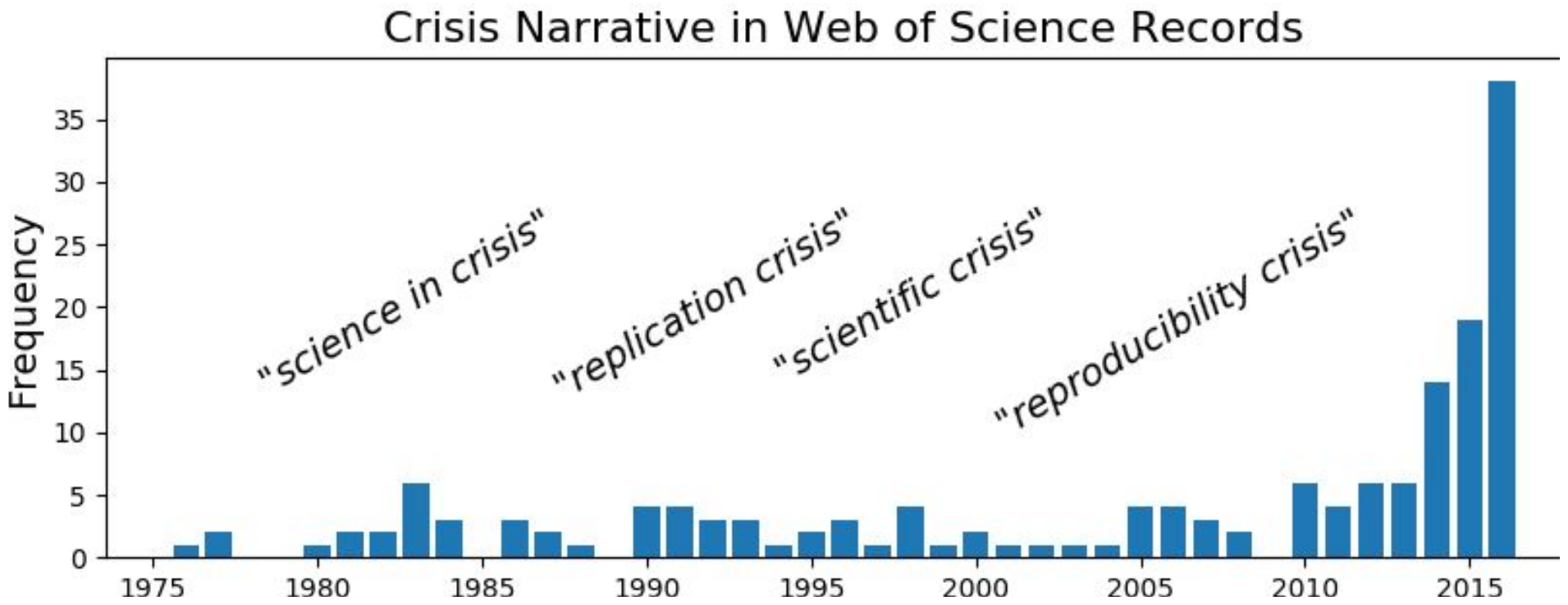
http://bit.ly/ZPIDRoadshow-2020-Bosnjak

Learn more about ZPID ...

@ZPID

www.lifp.de/evaluation

Replication Crisis



Number of titles, abstracts, or keywords that contain one of the following phrases: “reproducibility crisis,” “scientific crisis,” “science in crisis,” “crisis in science,” “replication crisis,” “replicability crisis”, found in the Web of Science records. Modified from (Fanelli, 2018).

Replication Crisis: Solutions: Open Science I

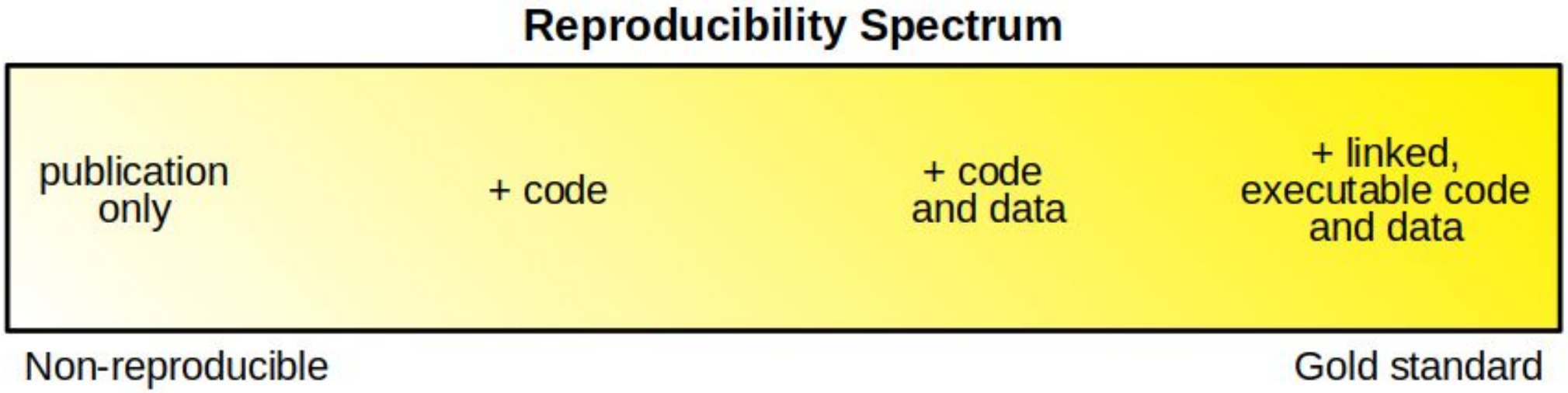
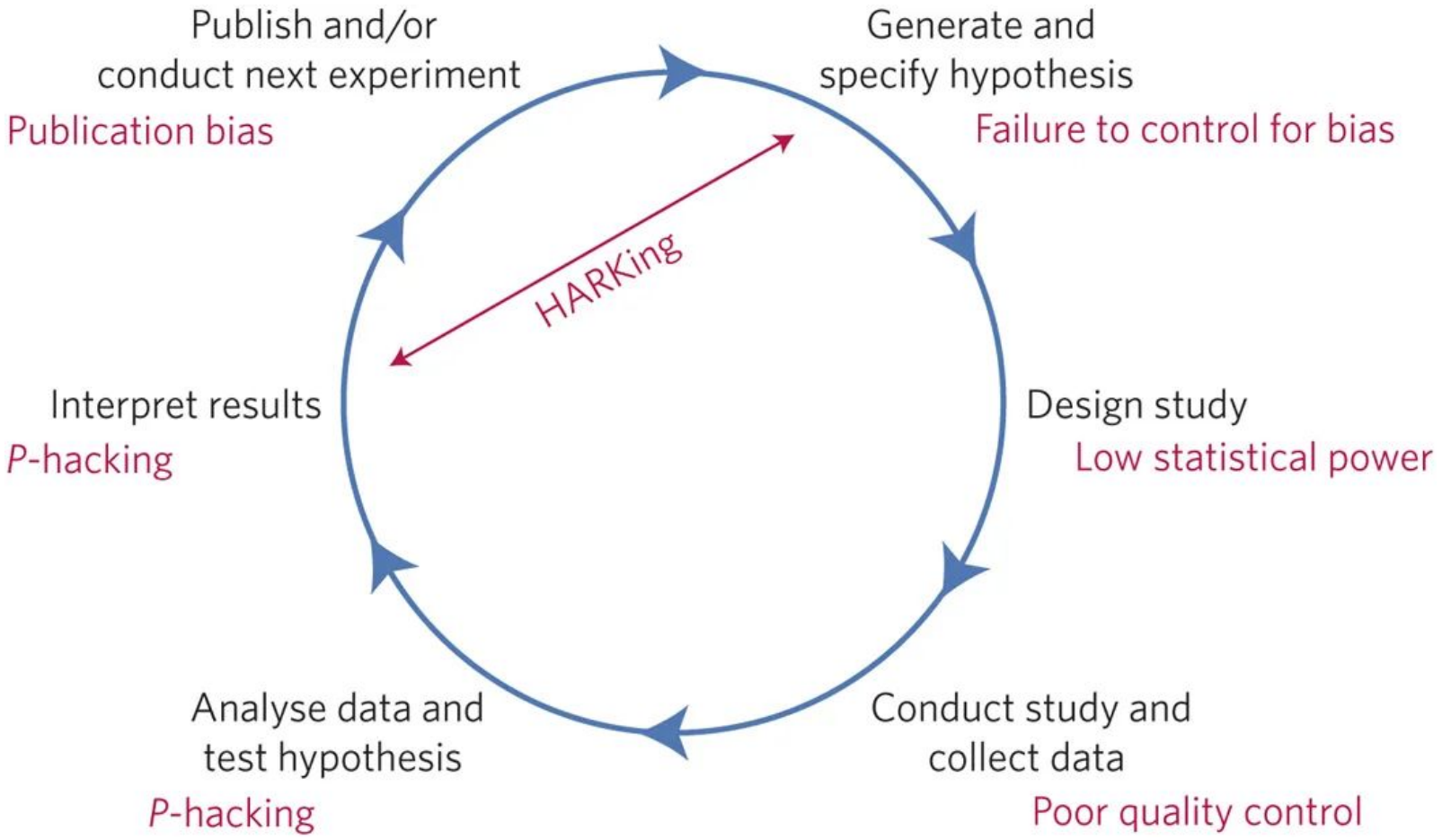


Illustration of the “spectrum of reproducibility”, ranging from not reproducible to the gold standard that includes code, data and executable files that can directly replicate the reported results. Modified from (Peng, 2011).

Replication Crisis: Solutions: Open Science II



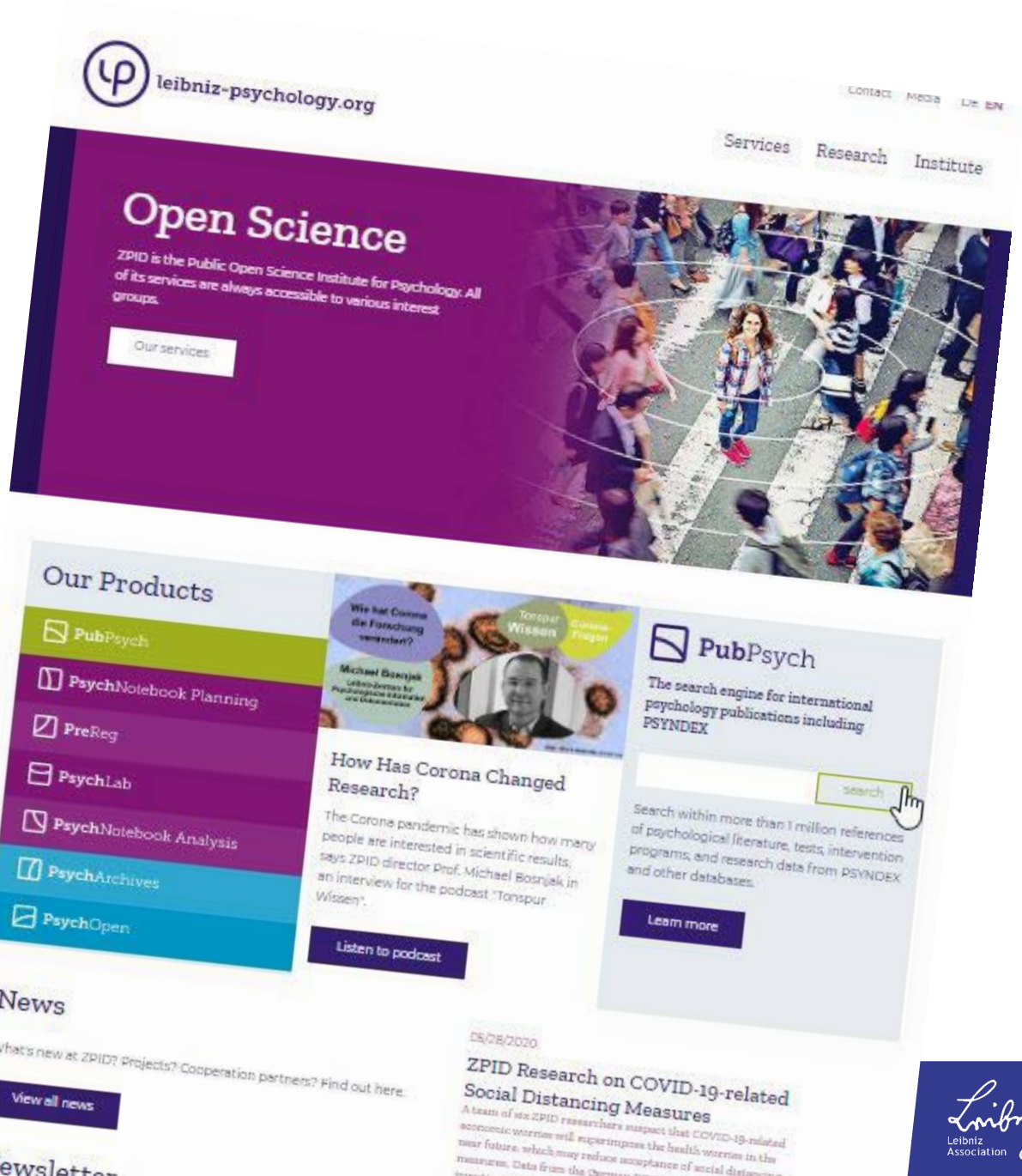
Munafo et al. (2017): "A manifesto for reproducible science", summarizes the **vulnerability of empirical research** in different stages of an idealized **research cycle**.

Video with **Chris Chambers** on Registered Reports as on solution to address the threats to empirical science: **https://youtu.be/d2nVPhVacFk**

Example of two interrelated **preregistered studies** at ZPID:

http://dx.doi.org/10.23668/psycharchives.2636

leibniz-psychology.org



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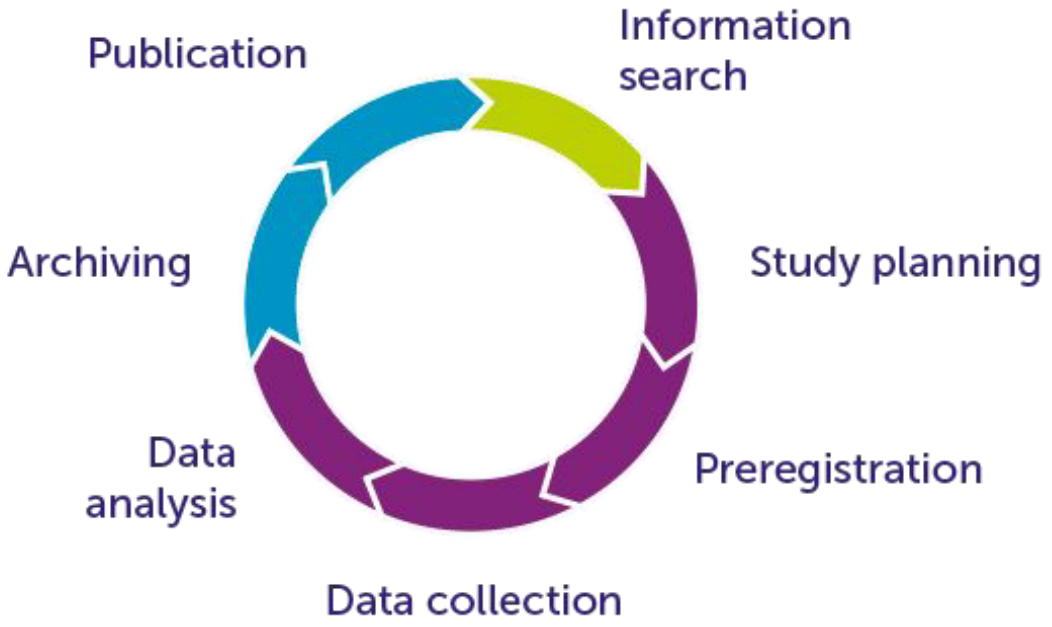

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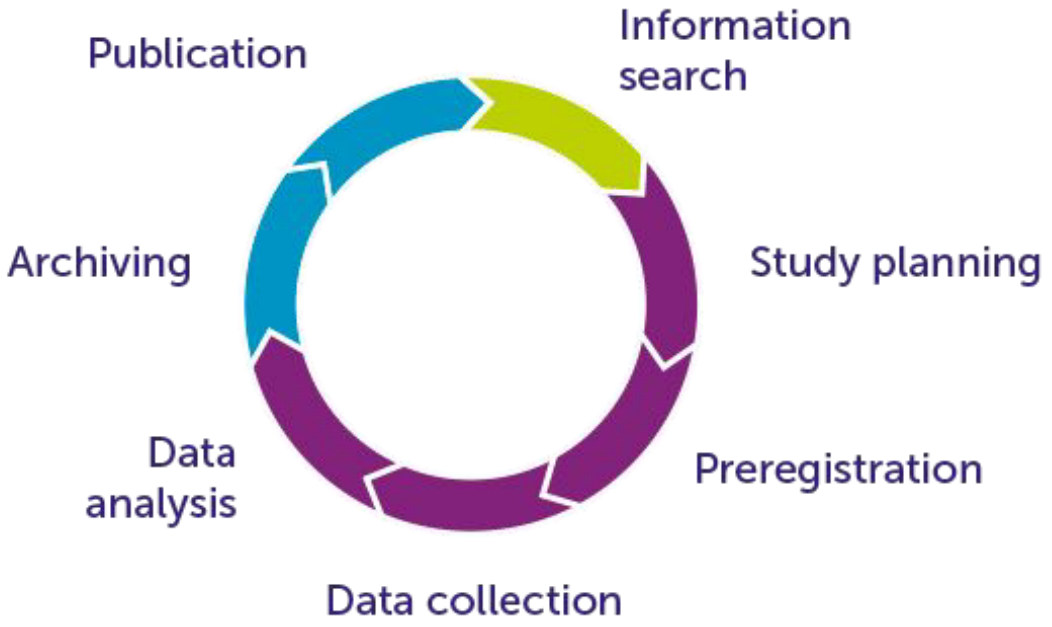

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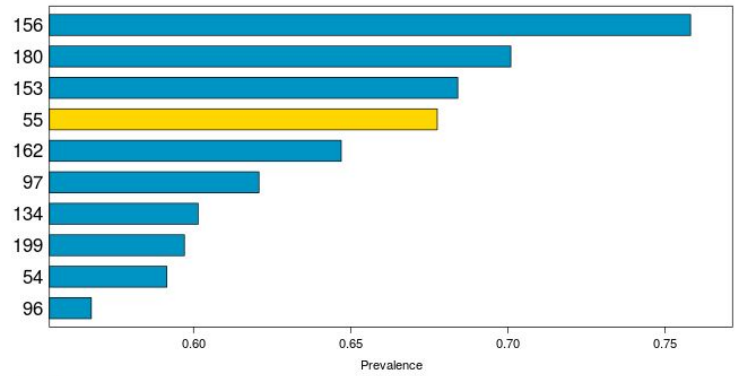
Popular topics in 2018



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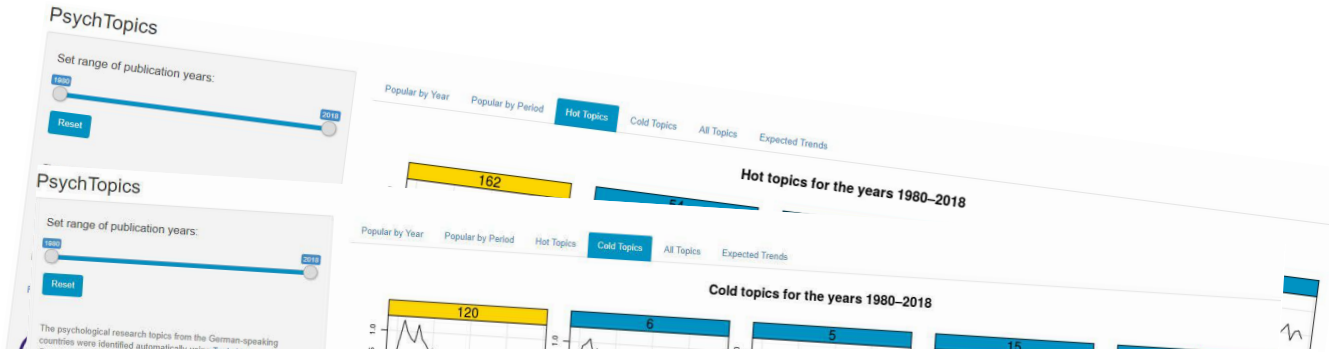

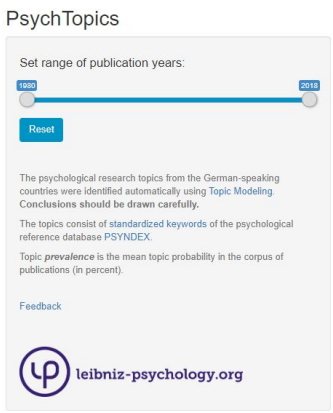

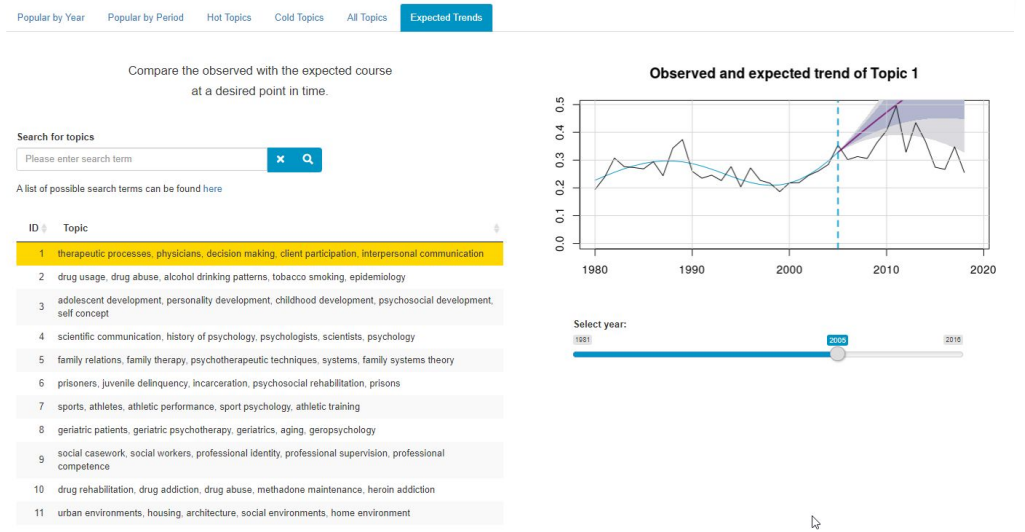

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Study planning → **Data analysis**

PsychNotebook — PsychNotebook

notebook.org/workspaces/11

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PsychNotebook

Projekte Hallo

Bearbeiten Teilen Löschen

expStudy_WiPro2020

Geteiltes Projekt mit Camila Azúa Michael Bosnjak

Das sind meine Materialien für den Analyseteil der experimentellen Studie.

JupyterLab. Eignet sich zur Erstellung von Präsentationen oder Textdokumenten, die ausführbaren Code enthalten

RStudio. Eignet sich zur Inspektion und Analyse von Daten.

ben Sie Fragen? Kontakt

iben Sie uns eine E-Mail. Wir helfen Ihnen gern.

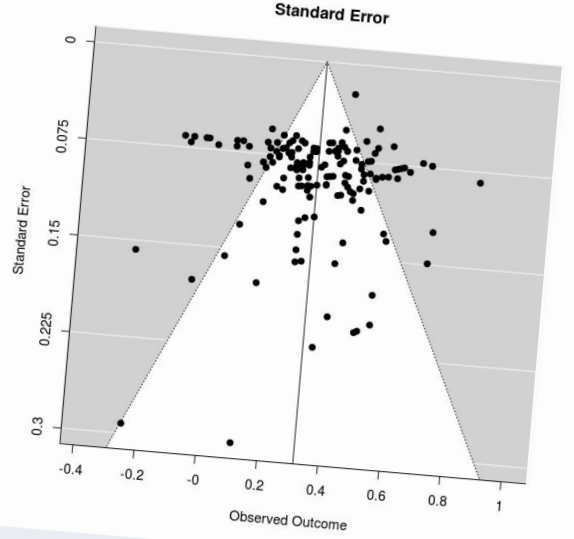
Folgen Sie uns.

Auf Twitter und Facebook informieren wir Sie über Neuigkeiten aus dem ZPID.

Publication Bias

We also performed a funnel plot analysis to investigate if there was any kind of publication bias toward over- or underpowered studies in our data set. As the figure shows, the majority of the effect sizes have rather low standard errors (smaller than 0.1), meaning that they were estimated with a reasonable degree of precision. Also, there appears to be a moderately asymmetric relationship between the magnitude of effect sizes and their standard errors, there is practically no reason to assume that publication bias is a problem in the present meta-analysis. The funnel plot also gives evidence for heterogeneity among effect sizes.

```
In [10]: 1 funnel(unconditional, main="Standard Error")
```



PsychNotebook: Usage Scenarios

- Collaborative planning, analyzing, and documenting research projects.
- Collaborative teaching projects.
- One-click archiving functionality for long-term preservation.

Preregistration

PreReg

PreReg

Preregistration & ZPID | Track Types | Submission Information | FAQ

Preregistration in Psychology

By using preregistration, researchers can demonstrate that their studies have been conducted, analyzed, and reported as data collection for high-quality preregistrations in the field of psychology (Lab Track).

ZPID promotes preregistration via **PreReg in Psychology** by offering a domain-specific repository (Repository Track) and

Preregistrations submitted to **PreReg in Psychology** will be archived in PsychArchives, ZPID's repository for psychologica timestamp and a DOI (digital object identifier) to become citeable.

Successful applications for the Lab Track are awarded a free-of-charge data collection via the service PsychLab which cor the sample for an online study or to outsource the data collection of an eye tracking (or any pc-based) study to our on-sit

About ZPID

ZPID (Leibniz Institute for Psychology Information) is a public open science institute researchers by providing services related to information search, study planning and archiving, and publication. Find out more about ZPID via www.leibniz-psychology.o

Registered Reports Workshop 2018

PreReg: Usage Scenarios

- Framework to develop (pre-registered) study protocols, based on agreed-upon templates endorsed by professional associations (currently: APA, BPS, DGPs plus ZPID). APA style guide-compliant.
- Notarized proof of authorship in the earliest possible stage of idea development.
- Educational tool to train students in study planning.
- Entry ticket for free data collection in PsychLab (see next).

Data collection

PsychLab

PsychLab: Usage Scenarios

- Low-hurdle data collection:
  - Current model:
    Proposal > Proposal Decision > Own Data Collection > Paper preparation
  - Our model:
    Protocol > Protocol Decision > **Independent** Data Collection for free > Protocol finalization = Paper
- Large-scale panel and top-notch technology for eye tracking
- Free of charge, only quality is decisive for acceptance/refusal
- Long-term preservation of DROs (see next)

leibniz-psychology.org

PsychArchives

Contact

Home Contribute Browse

Disciplinary Repository for Psychological Science

PsychArchives is a disciplinary repository preserving a variety of digital research objects (DROs), with 21 different publication types (preprints, primary, and secondary publications), research data, tests, preregistrations, multimedia and code. We provide easy and free access to DROs according to the FAIR principles, which implies the commitment to ensure that research and research data are findable, accessible, interoperable, and reusable.

Please find all content regarding COVID-19 Snapshot MOnitoring (COSMO Standard) in a special collection.

Start a new search

Search

Highlighted Submissions

COVID-19 Snapshot MOnitoring (COSMO Standard): Monitoring knowledge, risk perceptions, preventive behaviours, and public trust in the current coronavirus outbreak - WHO standard protocol (WHO Regional Office for Europe) 2020-03-17 studyProtocol

Recent Submissions

The PSA Calls for Rapid and Impactful Study Proposals on COVID-19 (Psychological Science Accelerator) 2020-06-01 other

Supplementary

PsychArchives in a nutshell

Shared Digital Research Objects (DRO)

- research outputs from the entire cycle of psychological research are welcome.

Citable and discoverable

- uploads are assigned a Digital Object Identifier (DOI) to make them easily and uniquely citable.

Open licensing

- fostering re-use and open science.

Safe

- your research output is stored safely for the future at a sustainable, publicly funded infrastructure.

ychArchives

leibniz-psychology.org

DataWiz

DataWiz is a free data management system that helps prepare research data.

DataWiz ...

- facilitates high-quality documentation according to current standards.
- enables collaborative and distributed work on projects.
- ensures the long-term reusability of research data.

DataWiz covers the entire research data management process:

Creation

- Organize and document research projects
- Create data management plans adapted to the requirements of various sponsors (BM DFG)

Processing

- Export study documentation for preregistrations
- Work together with specific assignment of access rights

Analysis

- Import and version control records
- Read variable descriptions from SPSS and convert into codebooks
- Convert to relevant data formats

chiving and reuse

- Export entire project or individual studies into long-term readable formats for your own re
- Provide via PsychArchives, the ZPID repository

ting started with DataWiz:

need a DataWiz account that you can create here. After logging in with your DataWiz use

PsychArchives / DataWiz: Usage Scenarios

- Generating a data management plan using DataWiz for a prospective study (as requested by an increased number of funding institutions).
- Reproducible documentation of already collected data using DataWiz.
- Free long-term preservation of own DROs, e.g. supplements of publications, theses, presentations/course material, video material, and more. DOI-identifiable, GDPR-compliant, fine-grained access levels.
- Growing DRO-source for research and teaching.

Publication

PsychOpen

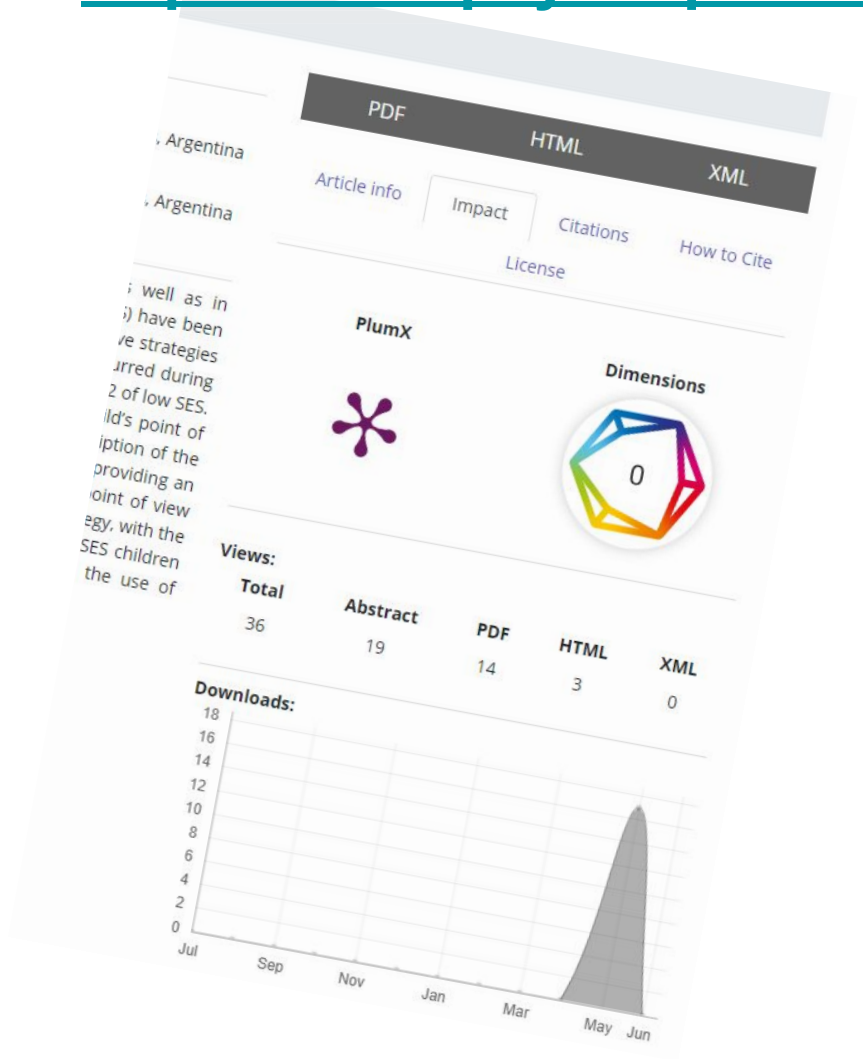
https://www.psychopen.eu/

PERSONALITY SCIENCE

Quantitative and Computational Methods in Behavioral Sciences

METHODOLOGY
European Journal of Research Methods for the Behavioral and Social Sciences

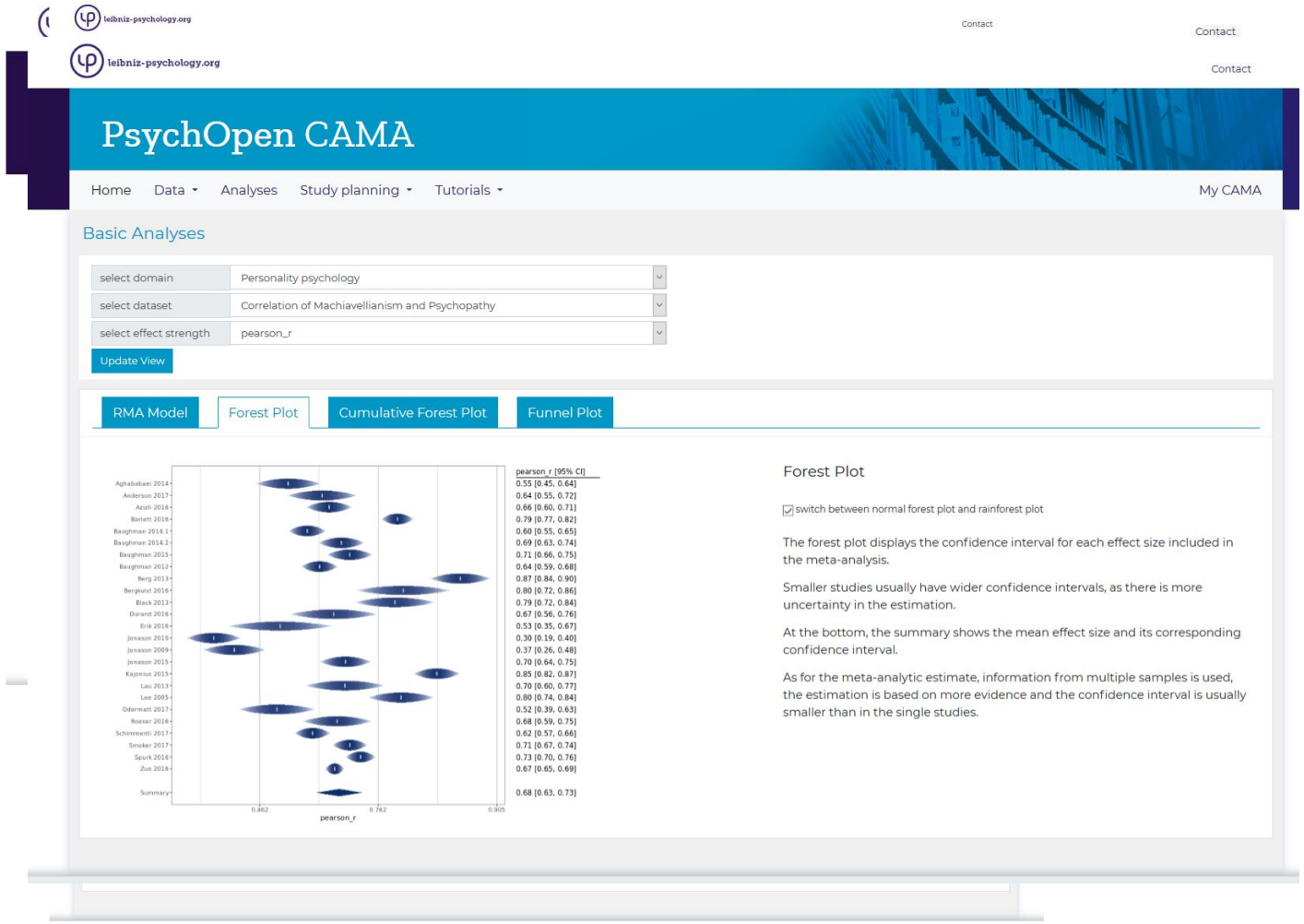
Sexual Offending
Theory, Research, and Prevention



PsychOpen GOLD: Usage Scenarios

- *For readers:* Free articles in rising star journals, extended functionalities (impact, related literature, archive integration, notebook integration, etc.)
- *For researchers:* Open access publication opportunity in highly visible/accessible journals, no APCs
- *For professional associations:* Free journal publishing opportunity, high-quality publishing services offered by ZPID

PsychOpen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PsychOpen CAMA
Home
Data
Analyses
Study planning
Tutorials
My CAMA
Basic Analyses
select domain
Personality psychology
select dataset
Correlation of Machiavellianism and Psychopathy
select effect strength
pearson_r
Update View
RMA Model
Forest Plot
Cumulative Forest Plot
Funnel Plot
pearson_r [95% CI]
0.55 [0.45, 0.64]
0.64 [0.55, 0.72]
0.66 [0.60, 0.71]
0.79 [0.77, 0.82]
0.60 [0.55, 0.65]
0.69 [0.63, 0.74]
0.71 [0.66, 0.75]
0.64 [0.59, 0.68]
0.87 [0.84, 0.90]
0.80 [0.72, 0.86]
0.79 [0.72, 0.84]
0.67 [0.56, 0.76]
0.53 [0.35, 0.67]
0.30 [0.19, 0.40]
0.37 [0.26, 0.48]
0.70 [0.64, 0.75]
0.85 [0.82, 0.87]
0.70 [0.60, 0.77]
0.80 [0.74, 0.84]
0.52 [0.39, 0.63]
0.68 [0.59, 0.75]
0.62 [0.57, 0.66]
0.71 [0.67, 0.74]
0.73 [0.70, 0.76]
0.67 [0.65, 0.69]
0.68 [0.63, 0.73]
0.462
0.762
0.905
pearson_r
Forest Plot
switch between normal forest plot and rainforest plot
The forest plot displays the confidence interval for each effect size included in the meta-analysis.
Smaller studies usually have wider confidence intervals, as there is more uncertainty in the estimation.
At the bottom, the summary shows the mean effect size and its corresponding confidence interval.
As for the meta-analytic estimate, information from multiple samples is used, the estimation is based on more evidence and the confidence interval is usually smaller than in the single studies.

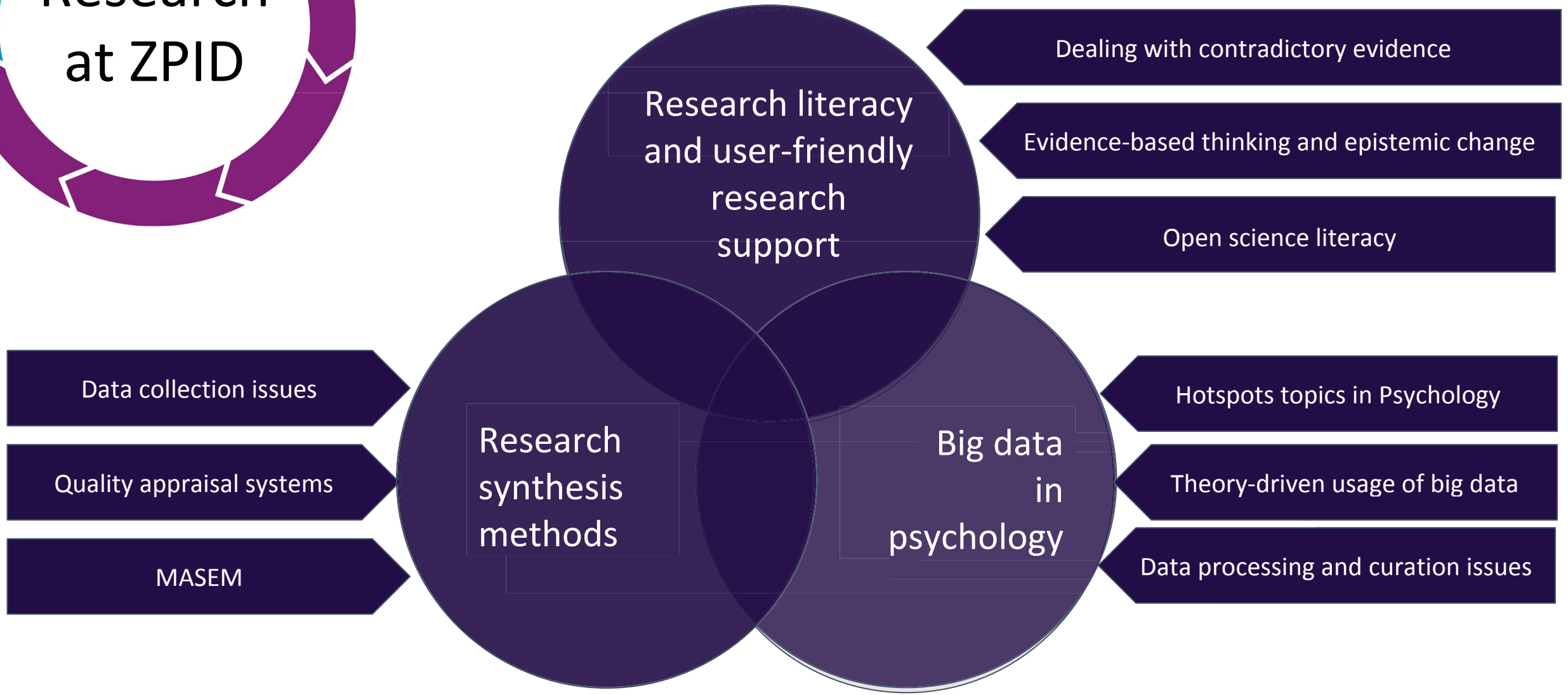
WORK IN PROGRESS

PsychOpen CAMA: Usage Scenarios

- Continuously updated evidence on hotspot topics in Psychology
- Planning and implementation tool for your own meta-analyses
- Tool to let the community update your meta-analysis
- Valuable source for teaching evidence-based research issues / research methods classes

Research at ZPID

Research at ZPID



Research Synthesis 2018 & 2019

Open Science 2019

Big Data 2018 & 2019

Workshop with Icek Ajzen 2018

Michael Bošnjak
Edgar Erdfelder
(Editors)

Hotspots in Psychology 2018

Michael Bošnjak
Timo Gnambs
(Editors)

Hotspots in Psychology 2019

Frank Renkewitz
Moritz Heene
(Editors)

Open Science in Psychology

Progress and Yet Unsolved Problems

Mike W.-L. Cheung
Suzanne Jak
(Editors)

Big Data in Psychology

Methods and Applications

Michael Bošnjak
Lothar Wedderhoff
(Eds)

Hotspots in Psychology 2020

hogrefe

http://lifp.de/mediacenter

http://bit.ly/ZPIDRoadshow-2020-Bosnjak

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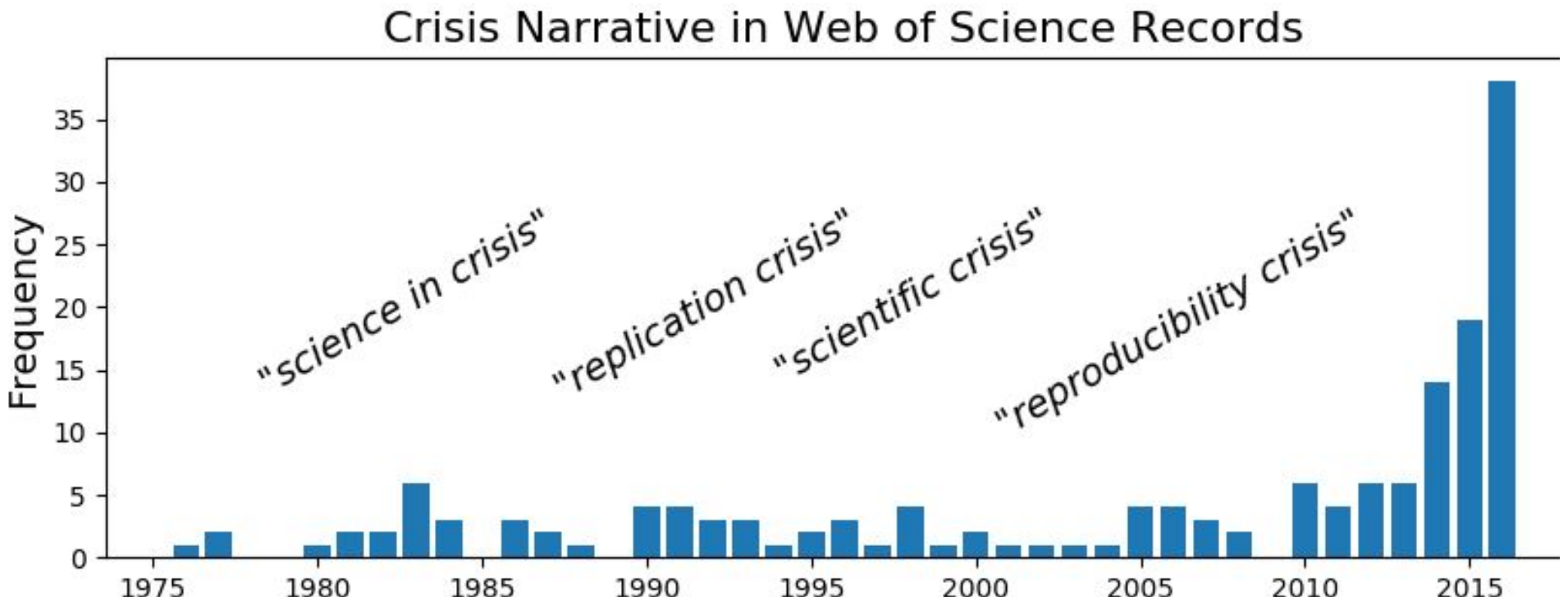
Replication Crisis



Number of titles, abstracts, or keywords that contain one of the following phrases: “reproducibility crisis,” “scientific crisis,” “science in crisis,” “crisis in science,” “replication crisis,” “replicability crisis”, found in the Web of Science records. Modified from (Fanelli, 2018).

Replication Crisis: Solutions: Open Science I

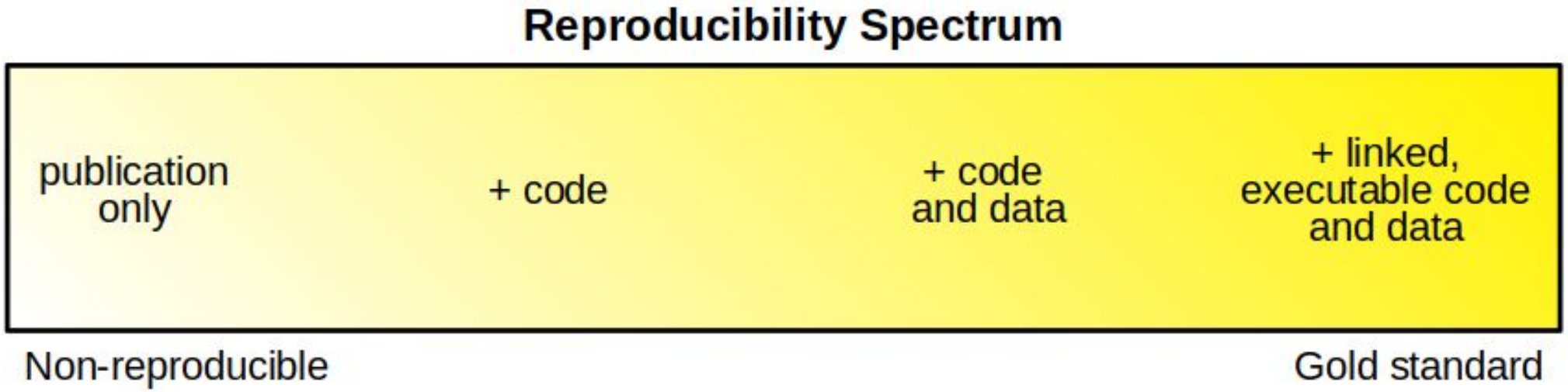
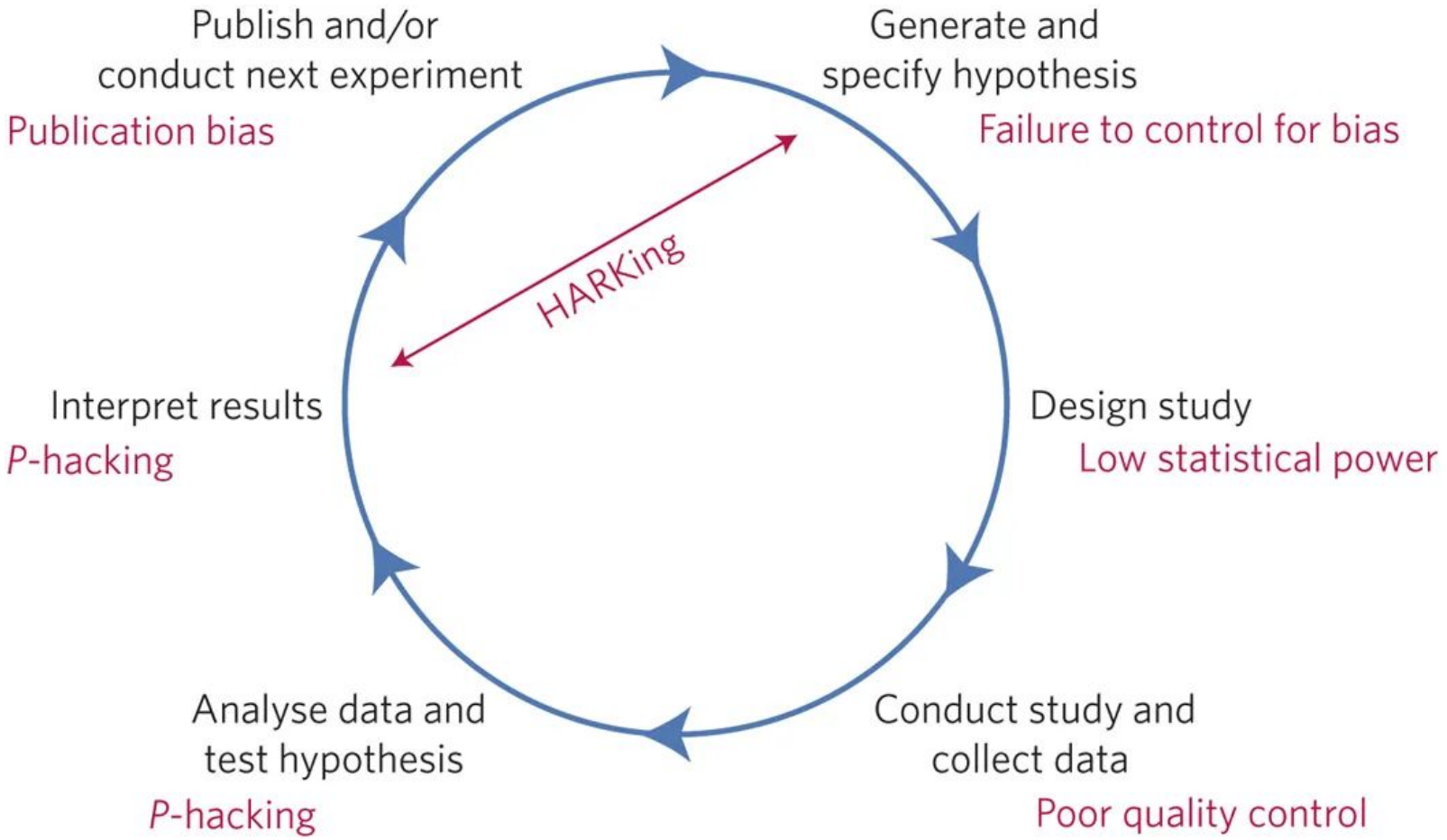


Illustration of the “spectrum of reproducibility”, ranging from not reproducible to the gold standard that includes code, data and executable files that can directly replicate the reported results. Modified from (Peng, 2011).

Replication Crisis: Solutions: Open Science II



Munafo et al. (2017): "A manifesto for reproducible science", summarizes the **vulnerability of empirical research** in different stages of an idealized **research cycle**.

Video with **Chris Chambers** on Registered Reports as on solution to address the threats to empirical science: **https://youtu.be/d2nVPhVacFk**

Example of two interrelated **preregistered studies** at ZPID:

http://dx.doi.org/10.23668/psycharchives.2636