

Open Science in Psychology and COSN: A Grassroots Path Forward

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SOCIETY FOR THE
IMPROVEMENT OF
PSYCHOLOGICAL SCIENCE



Hu Chuan-Peng (PhD)

Employment

2021.07 – Now Professor, School of Psychology, Nanjing Normal University

Teaching: R language in Psychological Research; Bayesian Statistics

2020.12 – 2021.07 Lecturer, School of Psychology, Nanjing Normal University

2017.10 – 2020.10 Post-doc, Leibniz Institute for Resilience Research, Mainz, Germany

Education

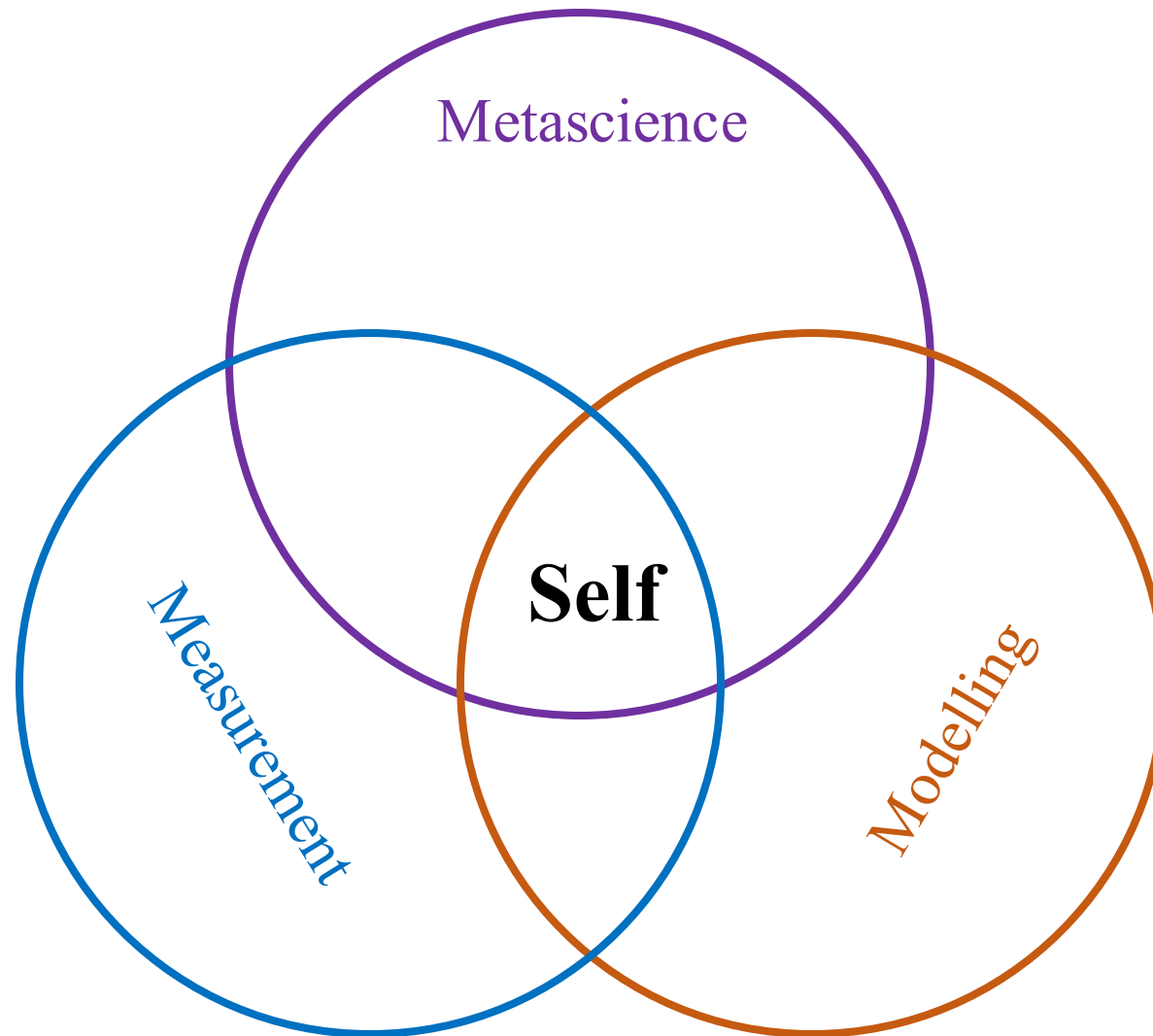
2012.08 – 2017.07 PhD Tsinghua University (Supervisors: Prof. Kaiping Peng, Prof. Jie Sui)

2016.02 – 2016.08 Visiting student Department of Psychology, The University of Oxford

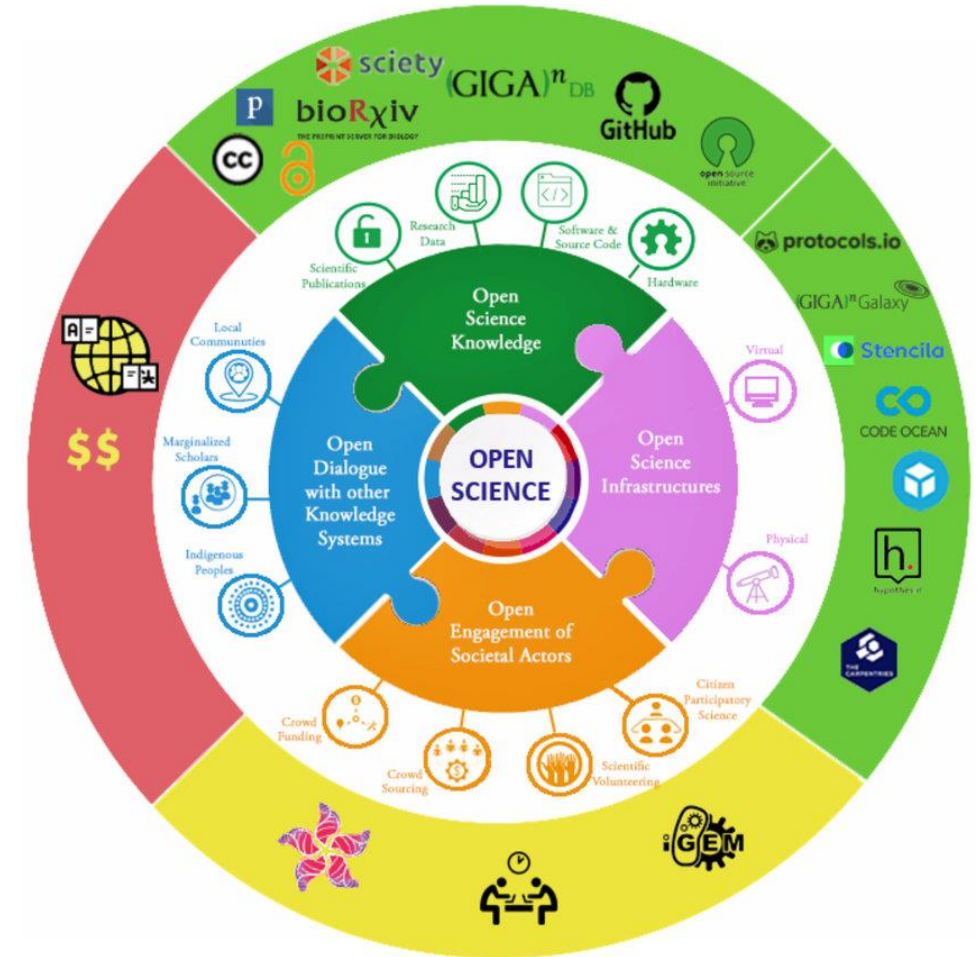
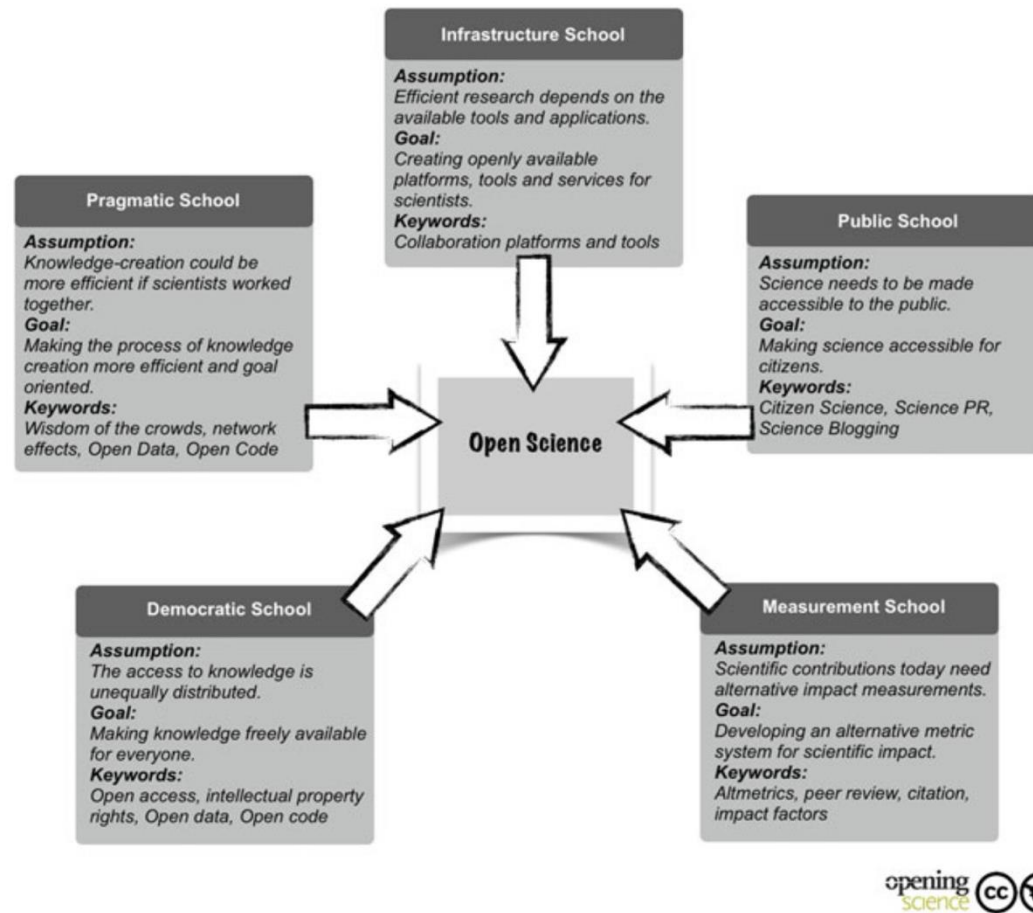
2009.09 – 2012.07 M.Ed. Hubei University, Wuhan, China

2005.09 – 2009.07 LLB. Hubei University, Wuhan, China

Research interest



What does “open science” mean?

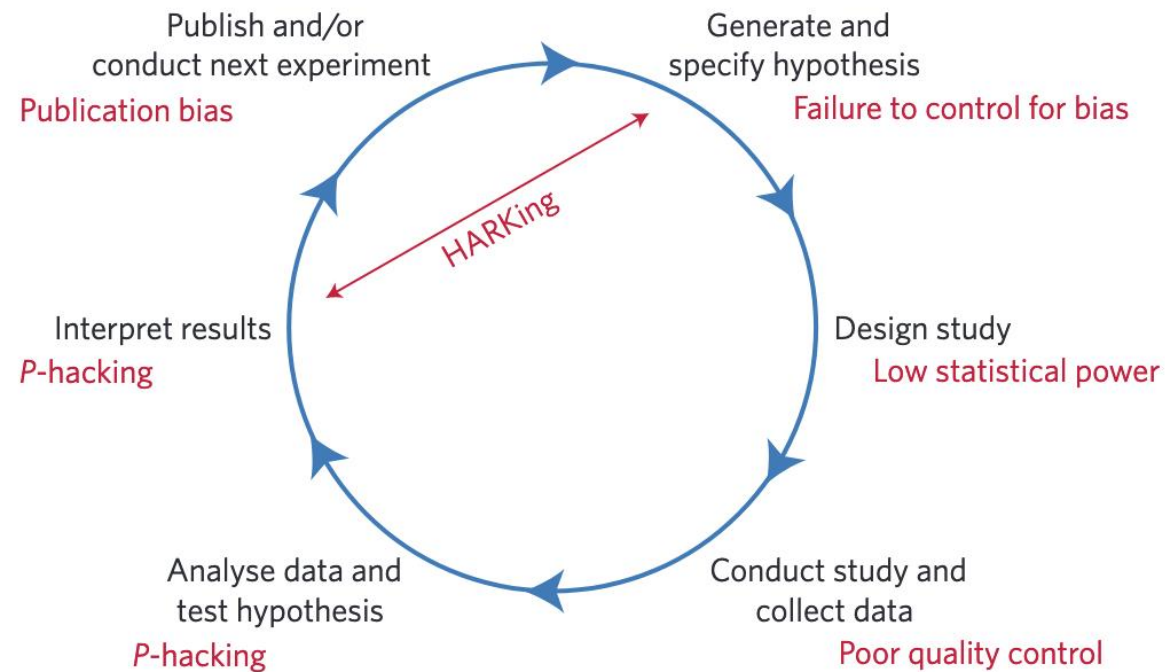


Fecher, B., & Friesike, S. (2014). Open Science: One Term, Five Schools of Thought. In S. Bartling & S. Friesike (Eds.), *Opening Science: The Evolving Guide on How the Internet is Changing Research, Collaboration and Scholarly Publishing* (pp. 17–47). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-319-00026-8_2

Edmunds, S. C., Zauner, H., Nogoy, N. A., Zhou, H., Zhang, H., & Goodman, L. (2022). A Decade of GigaScience: Milestones in Open Science. *GigaScience*, 11, giac067. <https://doi.org/10.1093/gigascience/giac067>

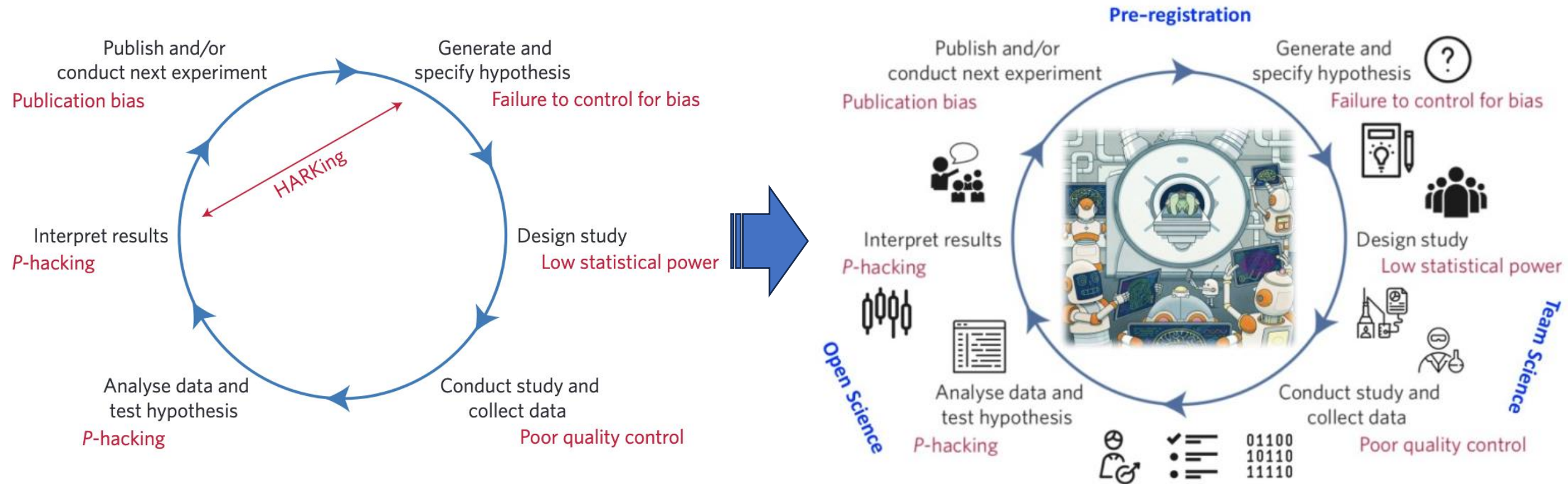
What does “open science” mean for psychology?

- Open, transparency, & reproducibility.



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- Open, transparency, & reproducibility.



Replication crisis → Open Science

[nature](#) > [news](#) > [article](#)

News | Published: 27 August 2015

Over half of psychology studies fail reproducibility test

[Monya Baker](#)

[Nature](#) (2015) | [Cite this article](#)

41k Accesses | 70 Citations | 1434 Altmetric | [Metrics](#)

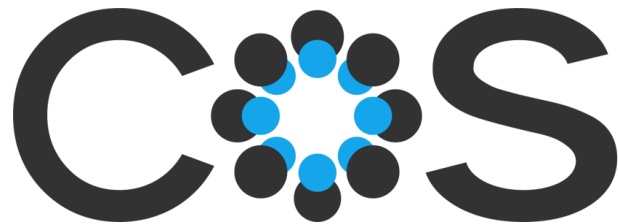
Largest replication study to date casts doubt on many published positive results.

SCIENCEINSIDER | EDUCATION

Final Report: Stapel Affair Points to Bigger Problems in Social Psychology

In video statement, disgraced psychologist expresses "deep, deep remorse"

28 NOV 2012 • BY [MARTIN ENSERINK](#)



CENTER FOR
OPEN SCIENCE
SCIENCE WORKS BEST IN THE OPEN

HOME > SCIENCE > VOL. 349, NO. 6251 > ESTIMATING THE REPRODUCIBILITY OF PSYCHOLOGICAL SCIENCE

[RESEARCH ARTICLE](#)

[X](#) [in](#) [re](#) [we](#) [en](#)

Estimating the reproducibility of psychological science

OPEN SCIENCE COLLABORATION | [Authors Info & Affiliations](#)

SCIENCE • 28 Aug 2015 • Vol 349, Issue 6251 • DOI: [10.1126/science.aac4716](#)

64,271 4,168



CHECK ACCESS



Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science*, 349(6251), aac4716.

<https://doi.org/10.1126/science.aac4716>

Replication crisis → Open Science

- Open, transparency, & reproducibility.



5. Make it Required

The [Transparency and Openness Promotion \(TOP\)](#) Guidelines provide and promote a policy framework for aligning values, incentives, and policies for journals, funders, and institutions.

4. Make it Rewarding

Journals and funders to realign incentives with [Rigor and Transparency Initiatives](#) using [Registered Reports](#), a publishing format where peer review happens prior to data collection.

3. Make it Normative

[Grassroots organizing](#) activates champions to adopt new practices and engage their community. Targeted communications such as badges make their new behaviors visible to others.

2. Make it Easy

OSF is constantly evolving with user-centered product development to integrate into researchers' daily workflows. [Training](#) and customization ensures that the tools are fit-for-purpose for all kinds of research.

1. Make it Possible

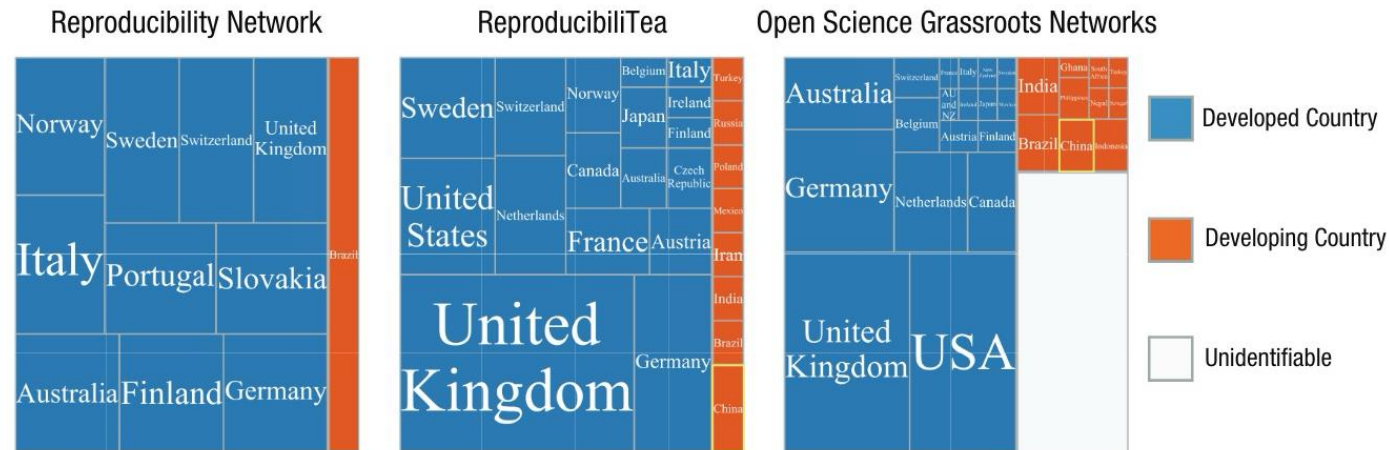
The open-source [Open Science Framework \(OSF\)](#) makes it possible for researchers to improve rigor, transparency, and sharing of all their work across the research lifecycle.

Replication crisis → Open Science

a



b



Jin, H., Wang, Q., Yang, Y.-F., Zhang, H., Gao, M., Jin, S., ... Chuan-Peng, H. (2023). Chinese Open Science Network (COSN): Building an Open Science community from scratch. *Advances in Methods and Practices in Psychological Science*, 6(1). <https://doi.org/10.1177/25152459221144986>

Chinese Open Science Network (COSN): Starting a grassroots network from scratch

- 2016, we wrote a Chinese paper about reproducibility;

心理科学进展 ›› 2016, Vol. 24 ›› Issue (9): 1504-1518. doi: 10.3724/SP.J.1042.2016.01504

• 研究方法 •

心理学研究中的可重复性问题：从危机到契机

胡传鹏¹;王 非¹;过继成思¹;宋梦迪¹;隋 洁²;彭凯平¹ ✓

Advances in Psychological Science ›› 2016, Vol. 24 ›› Issue (9): 1504-1518. doi: 10.3724/SP.J.1042.2016.01504

• Research Methods •

The replication crisis in psychological research

HU Chuanpeng¹; WANG Fei¹; GUO Jichengsi¹; SONG Mengdi¹; SUI Jie²; PENG Kaiping¹ ✓

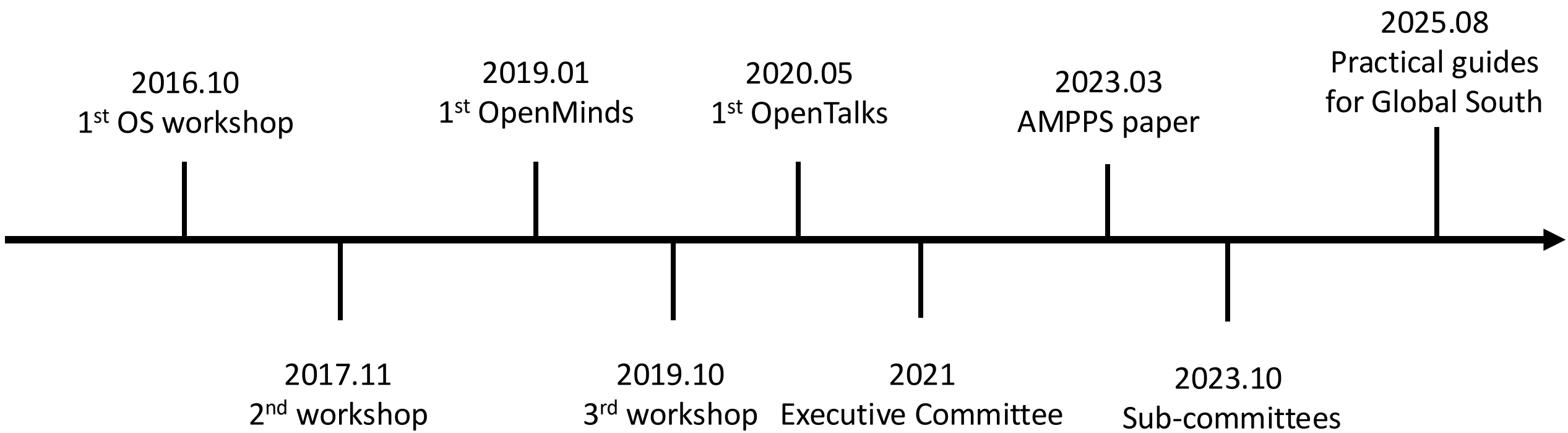
Chinese Open Science Network (COSN): Starting a grassroots network from scratch

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- 2016, we organized a workshop on reproducibility & open science;



Chinese Open Science Network (COSN): Starting a grassroots network from scratch

- 2016, we wrote a Chinese paper about reproducibility;
- 2016, we organized a workshop on reproducibility & open science;
- 2017, 2nd workshop, & WeChat-Official-Account for Open Science;
- ...



Status of COSN



- WeChat Official Account: OpenScience (> 34 000 subscribers)



- OSF: osf.io/9d7y4/



- Website: open-sci.cn

- Email: opensci@outlook.com

- Bsky: [@chineseopensci.bsky.social](https://chineseopensci.bsky.social)

Status of COSN

(1) Online events:

- OpenTalks: # 92
- OpenMinds (Journal club): Five years (> 60 events)
- OpenTutorials: #22
- OpenPlus: #5

(2) OpenTransfer (translation and writing)

- One book: The Seven Deadly Sins of Psychology;
- Sample size justification, Collabra: Psychology; (>1, 7000 views)
- Ten common stats error, *elife*;
- Linear mixed model in RT analysis
-

(3) Online collaborators recruitment for metascience

(4) In-person events: Hackathons (once per year) & workshops

We are not alone!

- Support from International communities
 - Center for Open Science (COS);
 - Society for the Improvement of Psychological Science;
 - Psychological Science Accelerator.

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- Support from International community
 - Center for Open Science (COS);
 - Society for the Improvement of Psychological Science;
 - Psychological Science Accelerator.
- Open Science communities in China
 - Chinaxiv (chinaxiv.org)
 - Science Data Bank (scidb.cn)
 - Open Science platform by Institute of Psychology, CAS (<https://os.psych.ac.cn/>)

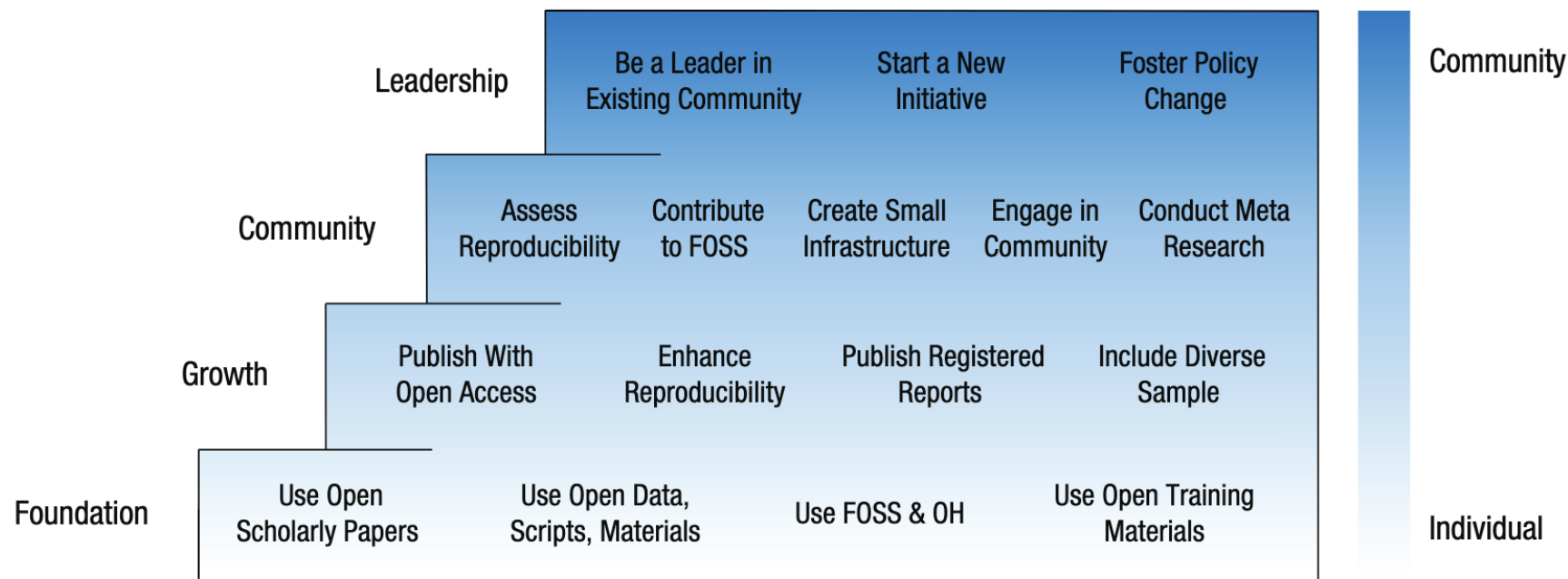
- Practical guides for researchers in developing countries by researchers from developing countries



<https://github.com/OpenSci-CN/OS-developing-world>

We are not alone !

- Practical guides for researchers in developing countries by researchers from developing countries



Chuan-Peng, H., Xu, Z., Lazić, A., Bhattacharya, P., Seda, L., Hossain, S., ... Azevedo, F. (2025). Open Science in the Developing World: A Collection of Practical Guides for Researchers in Developing Countries. *Advances in Methods and Practices in Psychological Science*, 8(3), 25152459251357565. <https://doi.org/10.1177/25152459251357565>

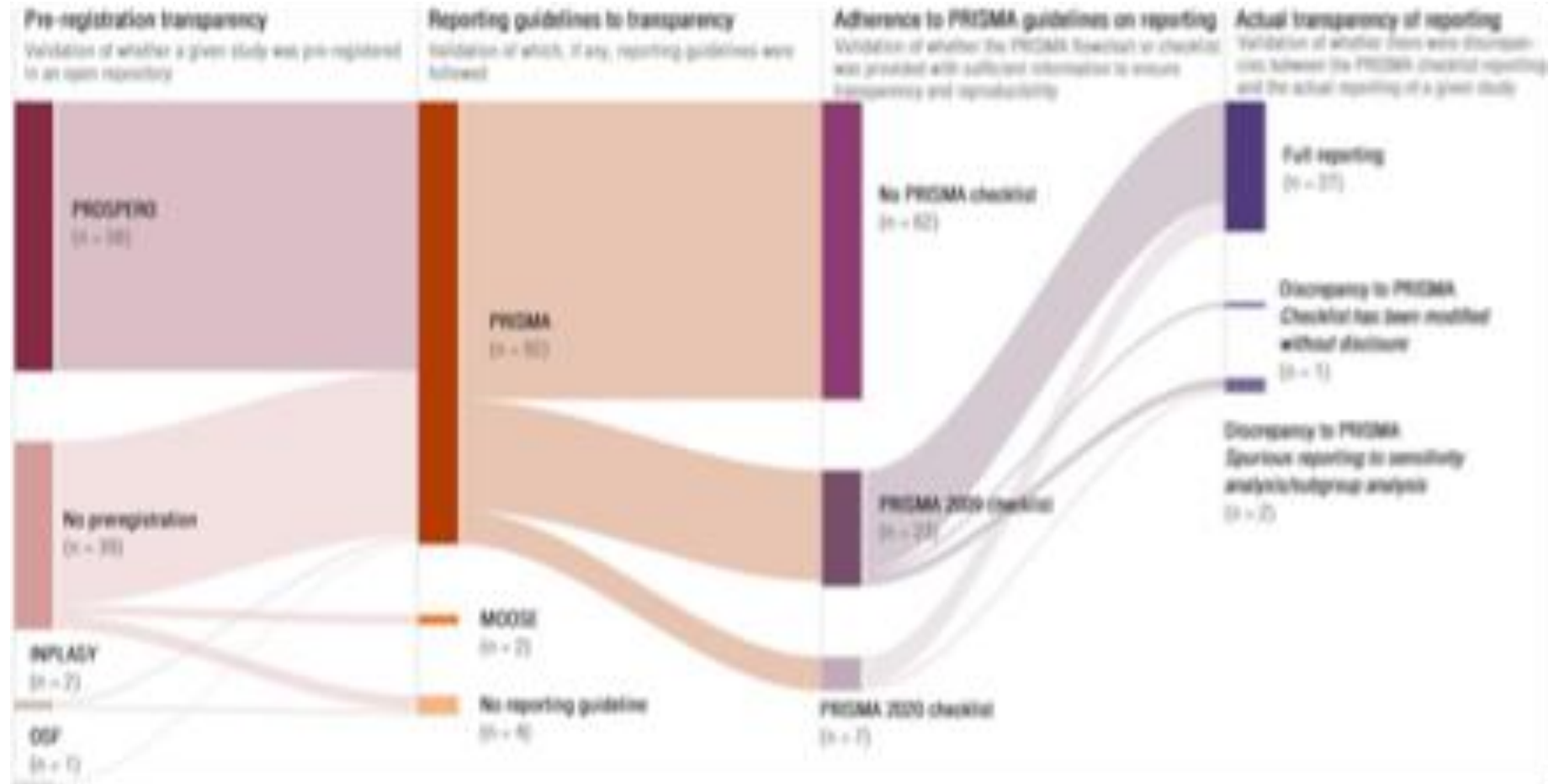


Evaluating open science practices from a metascience perspective

Evaluating open science practices from a metascience perspective

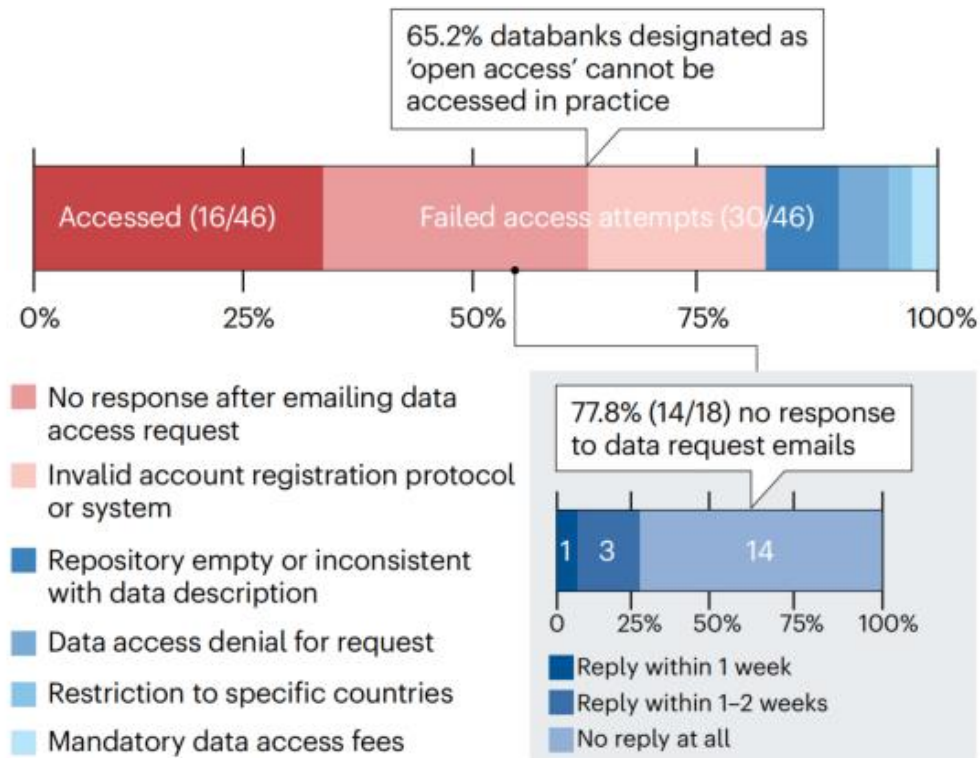


Dr. Zhiyi Chen



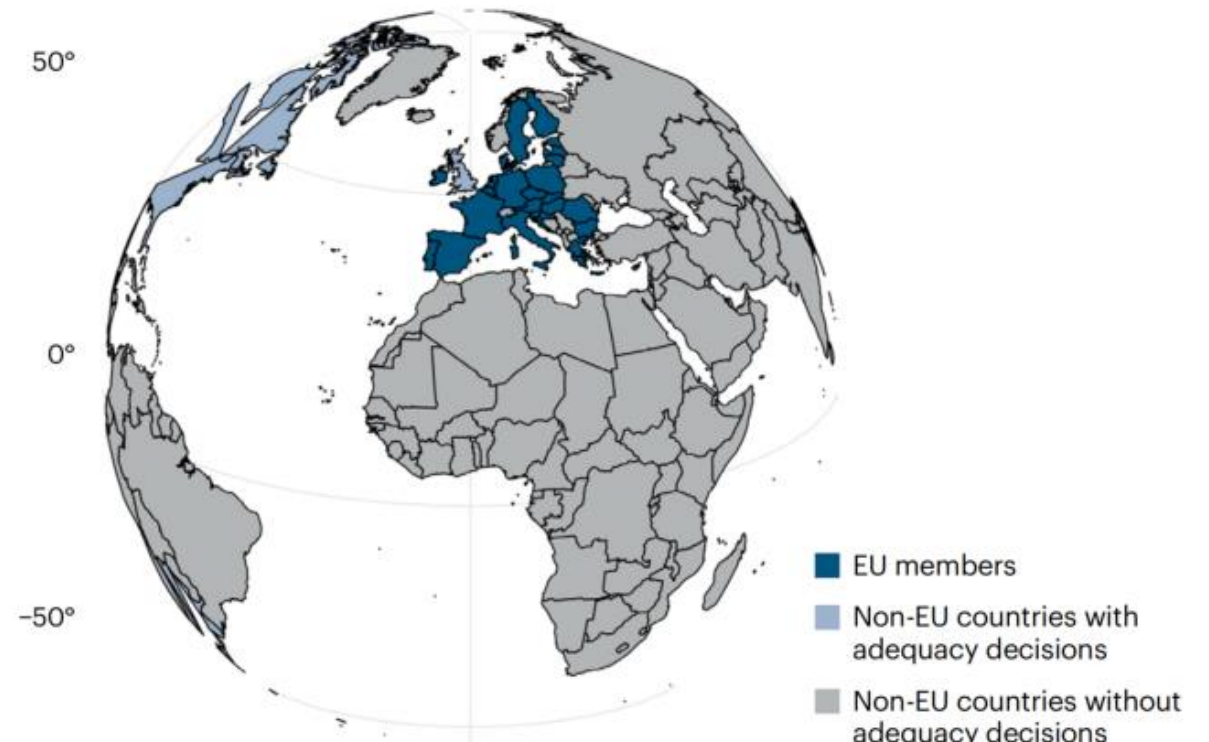
Evaluating open science practices from a metascience perspective

Data accessibility challenges

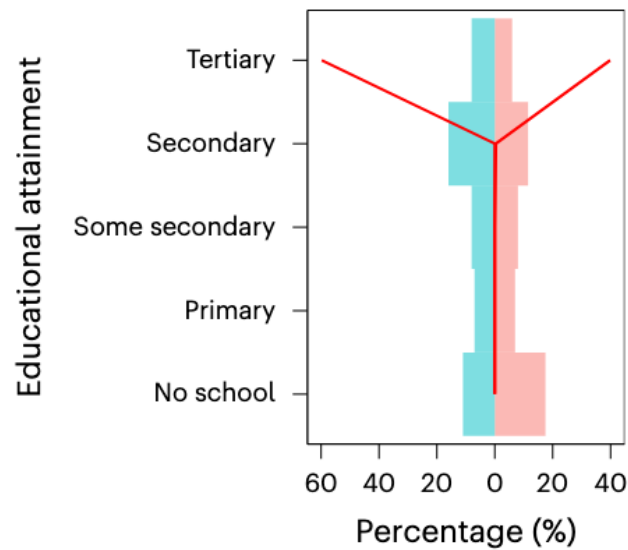


Adequacy decisions on EU data protection

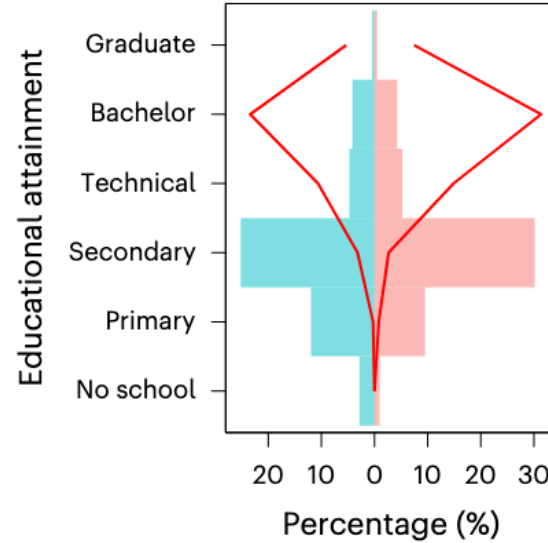
On 4 March 2024, based on Article 45 of EU Regulation 2016/679, transmission of and access to personal data were restricted within 27 EU members and 15 non-EU countries with adequacy decisions.



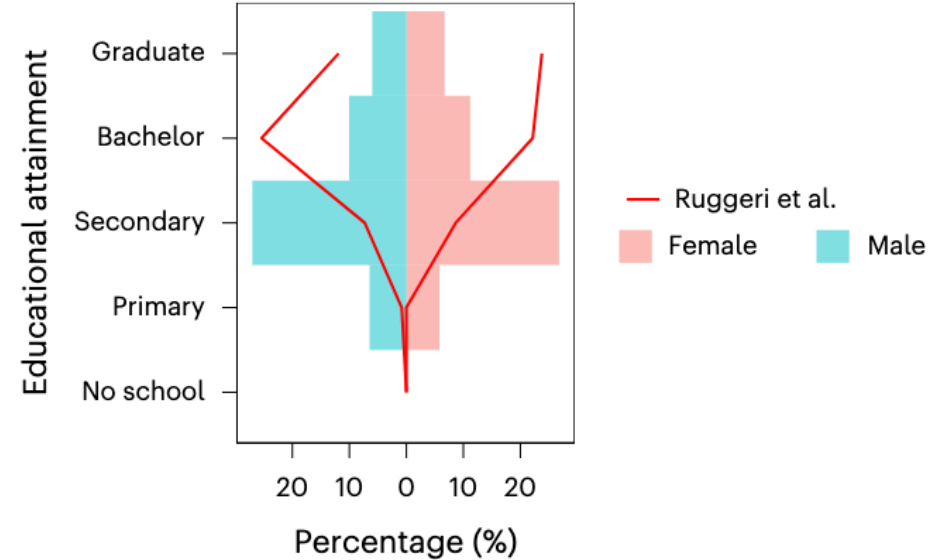
Evaluating open science practices from a metascience perspective



Nigeria



China



US

What's next for COSN?

- A new journal: *Open Science*
 - Multi-disciplinary;
 - Global South perspective
- Extending our guides as a e-book
- More metascience projects form the global south perspective

OPEN SCIENCE, a gold Open Access journal established through a crowdfunding approach demonstrates the willingness and action of Chinese scientists to support UNESCO's Open Science and the International Decade of Sciences for Sustainable Development strategy. It provides a community-driven, cost-effective (low-cost) solution for global knowledge sharing and equitable scientific dissemination.



Editors-in-Chief

• Huadong Guo
Aerospace Information Research Institute,
Chinese Academy of Sciences

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2024 • 2033
International Decade of
Sciences for Sustainable
Development



Take home message (open science)

There are many grassroots open science networks out there (Skubera et al, 2025);

Training and community-building with researchers for **open & credible** scientific knowledge

Skubera, M., Korbmacher, M., Evans, T. R., Azevedo, F., & Pennington, C. R. (2025). International initiatives to enhance awareness and uptake of open research in psychology: A systematic mapping review. *Royal Society Open Science*, 12(3), 241726.

<https://doi.org/10.1098/rsos.241726>

Take home message (for researchers)



愿中国青年都摆脱冷气，只是向上走，．．．能做事的做事，能发声的发声。有一分热，发一分光，——鲁迅《热风·随感录四十一》

[I] wish the Chinese youth could get rid of that indifference and keep moving forward, . . . do what you can do and voice what you can voice. Glow when you have the energy.

—LU Xun (1938/2021), a leading figure of modern Chinese literature in the early 20th century (authors' translation)



No, it's not The Incentives—it's you

<https://talyarkoni.org/blog/2018/10/02/no-its-not-the-incentives-its-you/>

Thanks a lot for your attention

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WeChat Account

