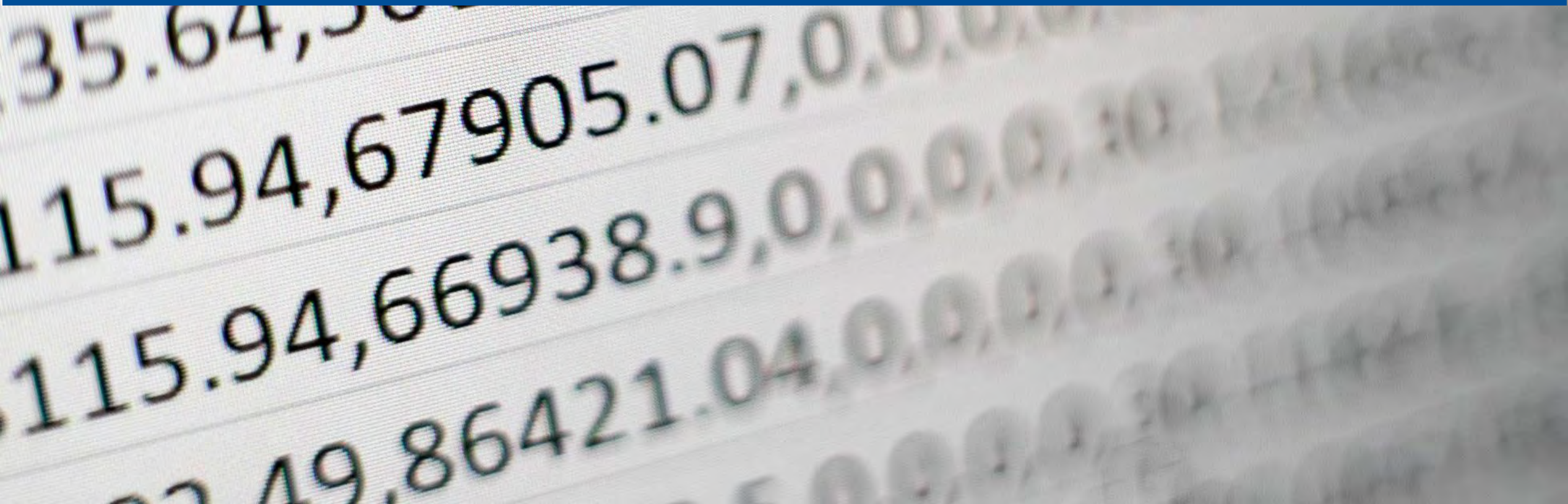


# To OS or Not to OS

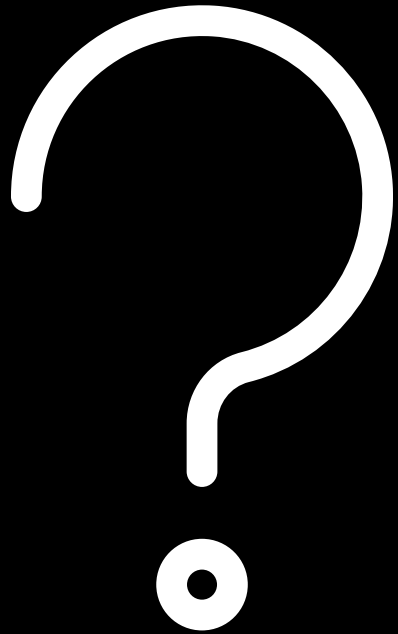
**Challenges and Opportunities of Embracing Open Science in Qualitative Research**

APPE RISE Pre-Conference Symposium, February 24, 2022

Amy Koerber, Jesse C. Starkey, Kerk F. Kee, Lyombe Eko, Karin Ardon-Dryer, Robert Glenn Cummins



# Questions for today's presentation



## *WHY?*

Why should we care about open science in the context of qualitative research?

## *HOW?*

How do we implement open science principles in qualitative research?

## *WHAT?*

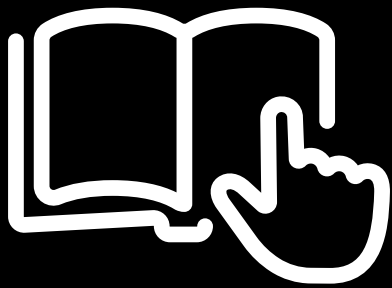
What challenges did we face in implementing open science principles in our own study?

Background



What is Open Science?

# Definitions



## *IN PHILOSOPHY*

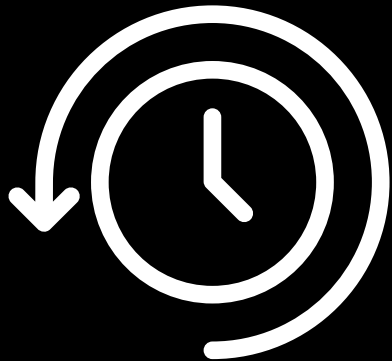
“science that is practiced with transparency and integrity, and with an emphasis on collaboration and inclusion”  
([Field et al., 2021](#))

Antidote to “replication crisis” in quantitative research  
([Renkewitz & Heene, 2019](#))

## *IN PRACTICE*

Research practices such as data sharing, preregistration of research designs, open access publishing, preprint publication, and open peer review  
([Vicente-Saez & Martinez-Fuentes, 2018](#))

# OS in Qualitative Research



## BENEFITS

transparency and accountability ([Chauvette, Schick-Makaroff, & Molzahn, 2019](#))

efficiency and economy ([Corti & Fielding, 2016](#))

“diversity in analysis and opinion” ([Chauvette, Schick-Makaroff, & Molzahn, 2019](#))

## COMPLICATIONS

“...replication misses the point...” ([Pratt, Kaplan, & Whittington, 2020](#))

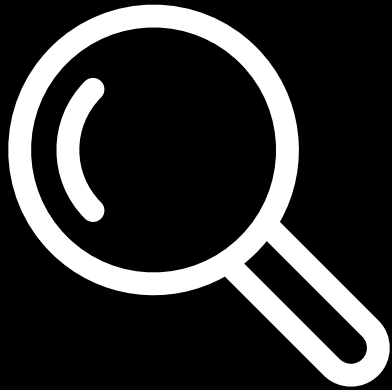
“cost-benefit balance” ([Field et al., 2021](#))

de-contextualization ([Chauvette, Schick-Makaroff, & Molzahn, 2019](#))

informed consent ([Heaton, 2008](#))

# Our project: NSF STEPP

*STEM Training in Ethics of Publication Practices*



## *RESEARCH AND GOALS*

- 48 interviews: March - October 2020 (800 pages of transcripts)
- Extensive textual analysis: case studies, content analysis, and legal analysis
- Goal: understanding “predatory publishing” from diverse stakeholder perspectives
- Current status: analyzing data, writing and publishing results (one article published, one under review, book manuscript in progress)

# Interview findings

*Some highlights*



## *OPEN SCIENCE AS ANTIDOTE TO “PREDATORY PUBLISHING”*

- Traditional peer review occurs behind closed doors--how do we know it actually happens?
- Same is true for so much of the process in scholarly research--how can we truly assess quality without having access to the data?
- “Predatory publishing” and other suspect publishing practices thrive on this closed/black-box nature of traditional science



Examples from our study

PlumX - A qualitative content analysis of watchlists vs safelists: How do they address the issue of predatory publishing?

Journal of Academic Librarianship

Volume 46, Issue 6, November 2020, 102236

**A qualitative content analysis of watchlists vs safelists: How do they address the issue of predatory publishing?**

Amy Koerber<sup>a</sup>, Jesse C. Starkey<sup>b</sup>, Karin Ardon-Dryer<sup>c</sup>, R. Glenn Cummins<sup>c</sup>, Lyombe Eko<sup>c</sup>, Kerk F. Kee<sup>d</sup>

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Availability of data and material (data transparency)

Data for this project, in the form of nVivo files is archived in the Texas Data Repository and can be found here:  
<https://dataverse.idl.org/dataverse/NSFSTEPF>

Code availability (software application or custom code)

Not applicable.

CRediT authorship contribution statement

First and second author were primary contributors to the article content and research. Remaining four authors are presented in alphabetical order, as each made equal contributions to the article content and research.

**Amy Koerber:** Conceptualization, Methodology, Formal analysis, Writing- Original Draft, Writing- Review & Editing, Supervision, Project administration, Funding acquisition. **Jesse C. Starkey:** Methodology, Validation, Formal analysis, Investigation, Data Curation, Writing- Original Draft, Writing- Review & Editing, Visualization. **Karin Ardon-Dryer:** Writing- Review & Editing, Visualization, Funding acquisition.



# "STEPP NVivo file"

Koerber, A. (2020). *STEPP NVivo file*. Texas Data Repository.  
<https://doi.org/10.18738/T8/F3QE0H>

The screenshot shows the Texas Data Repository website. The browser address bar displays the URL: [dataverse.tdl.org/dataset.xhtml?persistentId=doi:10.18738/T8/F3QE0H](https://dataverse.tdl.org/dataset.xhtml?persistentId=doi:10.18738/T8/F3QE0H). The page header includes the Texas Data Repository logo and navigation links for Search, About, User Guide, Support, and a user profile for Amy Koerber. The main content area features a document icon, the dataset title "Koerber, Amy, 2020, 'STEPP NVivo file'", and a DOI link. Below this, there are links for "Cite Dataset" and "Learn about Data Citation Standards." A right-hand sidebar contains buttons for "Access Dataset", "Edit Dataset", "Link Dataset", "Contact Owner", and "Share", along with "Dataset Metrics" showing 341 Views, 23 Downloads, and 0 Citations. The "Description" section states: "This is the NVivo file for our article, 'A Qualitative Content Analysis of Whitelists vs Blacklists: How do they address the issue of predatory publishing?' (2020-02-27)". The "Subject" is "Social Sciences" and the "Keyword" is "qualitative research". A navigation bar includes "Files", "Metadata", "Terms", and "Versions". A search bar is present with the text "Search this dataset...". Below the search bar, there are filters for "File Type: All" and "Access: All". The file list shows "1 to 2 of 2 Files" with a single file entry: "2.27.20 NVivo STEPP file Dataverse.nvp", which is 18.2 MB, published on Feb 28, 2020, and has 15 Downloads. The MD5 hash is a78...477. Action buttons for "Edit Files" and "Download" are visible.



Preprints are preliminary reports that have not undergone peer review.  
They should not be considered conclusive, used to inform clinical practice,  
or referenced by the media as validated information.

# Challenges and Threats to Quality in Scholarly Knowledge Production: Views of Selected Stakeholders from 17 Countries

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## Research Article

**Keywords:** scholarly knowledge production, quality, qualitative research, international scholarship, higher education policy

**Posted Date:** February 9th, 2022

## Declarations

### Funding

This project is part of a National Science Foundation Grant (Grant # 1926348), entitled "Standard: STEM Training in Ethics of Publication Practices (STEPP)," and is subject to the provisions of NSF 18-532 [Cultivating Cultures for Ethical STEM]. The sponsors had no direct participation or influence on the actual data collection and analysis.

### Conflicts of interest/Competing interests (include appropriate disclosures)

The authors declare they have no conflict of interest.

### Data Availability

Data for this project, in the form of NVivo files, is archived in the Texas Data Repository and can be found here <https://doi.org/10.18738/T8/LD7SSX>.

### Authors' contributions

First and second author (J. Starkey & A. Koerber) were primary contributors to the article content and

*Dataset #2*

# "Research Quality"

Koerber, A. (2021). *NVivo file for research quality manuscript*.

Texas Data Repository.

<https://doi.org/10.18738/T8/LD7SSX>

The screenshot shows a web browser window displaying the Texas Data Repository page for a dataset. The browser's address bar shows the URL: [dataverse.tdl.org/dataset.xhtml?persistentId=doi:10.18738/T8/LD7SSX](https://dataverse.tdl.org/dataset.xhtml?persistentId=doi:10.18738/T8/LD7SSX). The page header includes the Texas Data Repository logo and navigation links: Search, About, User Guide, Support, and a user profile for Amy Koerber. The main content area features a document icon, the dataset title "Koerber, Amy, 2021, 'NVivo file for research quality manuscript', <https://doi.org/10.18738/T8/LD7SSX>, Texas Data Repository, V1. Below the title are buttons for "Cite Dataset" and "Learn about Data Citation Standards." To the right, a vertical menu contains buttons for "Access Dataset", "Edit Dataset", "Link Dataset", "Contact Owner", and "Share". Under "Dataset Metrics", it shows 47 Views, 0 Downloads, and 0 Citations. The "Description" section states: "This is the NVivo file that accompanies our manuscript on research quality. (2021-08-22)". The "Subject" is "Social Sciences" and the "Keyword" is "qualitative research, interviews, scholarly publishing". Below these are tabs for "Files", "Metadata", "Terms", and "Versions". The "Files" tab is active, showing a list with one file: "Quality\_Deidentified\_6.29.21.nvp", which is 36.9 MB, published on Aug 22, 2021, and has 0 Downloads. The file's MD5 hash is 097...edb and its description is "NVivo file to accompany manuscript on research quality". Buttons for "Upload Files" and "Edit Files" are visible in the top right of the file list area.

# Challenges and Lessons Learned

Externals

ORGANIZE

 Coding

Codes


Sentiment

Relationships

Relationship Types


 Cases

 Notes

































 Sets

EXPLORE

 Queries

 Visualizations

 Reports

 06_P07_Transcript		21	51
 07_P08_Transcript		36	132
 08_P09_Transcript		35	136
 09_P10_Transcript		30	78
 10_P11_Transcript		25	63
 11_P12_Transcript		29	69
 12_P13_Transcript		18	46
 13_P14 Transcript		18	30
 14_P15 Transcript		19	26
 15_P16 Transcript		18	25
 16_P17_Transcript		23	64
 17_P18 Transcript		21	30
 18_P19_Transcript		30	63
 19_P20_Transcript		10	34
 20_P21 Transcript		25	46
 21_P22 Transcript		20	30
 22_P23 Transcript		24	54
 23_P24 Transcript		14	21
 24_P25 Transcript		26	65
 25_P26 Transcript		46	78
 26_P27 Transcript		26	61
 27_P28 Transcript		23	39

# For future consideration

- IMPACT

- Dataset #1: 341 views, 23 downloads
- Dataset #2: 47 views, 0 downloads

- ADVICE

- Consider other open science practices such as preregistration of study design and how these might apply in qualitative research
- If you intend to practice open data, keep that in mind from the beginning.





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