

Rethinking Transparency and Rigor from a Qualitative Open Science Perspective

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Interactive Journal Club Session, 14th March 2024

Agenda:

 ≈ 20 minutes: A concise summary and discussion of our focus paper (without the paper authors)

 ≈ 2:25 PM: Open Q&A and discussion session with the paper's authors

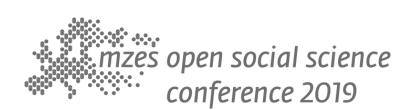














Introducing Our Focus **Paper Today**

Explores how open science principles, often viewed through a quantitative lens, can be reinterpreted and applied in qualitative research.



Rethinking Transparency and Rigor from a Qualitative Open Science Perspective

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Discussions around transparency in open science focus primarily on sharing data, materials, and coding schemes, especially as these practices relate to reproducibility. This fairly quantitative perspective of transparency does not align with all scientific methodologies. Indeed, qualitative researchers also care deeply about how knowledge is produced, what factors influence the research process, and how to share this information. Explicating a researcher's background and role allows researchers to consider their impact on the research process and interpretation of the data, thereby increasing both transparency and rigor. Researchers may engage in positionality and reflexivity in a variety of ways, and transparently sharing these steps allows readers to draw their own informed conclusions about the results and study as a whole. Imposing a limited, quantitatively-informed set of standards on all research can cause harm to researchers and the communities they work with if researchers are not careful in considering the impact of such standards. Our paper will argue the importance of avoiding strong defaults around transparency (e.g., always share data) and build upon previous work around qualitative open science. We explore how transparency in all aspects of our research can lend itself toward projecting and confirming the rigor of our work.

Keywords open science, transparency, rigor, qualitative, quantitative

the open science movement, within the last rigor and transparency have largely come from decade. This movement emphasizes greater a positivist, quantitative perspective that fotransparency and openness through specific cuses on the transparency of outputs, namely practices, such as preregistration and replica- open data, open materials, open code, and tion, and improving the quality and quantity open access to manuscripts (Hagger, 2019; of evidence used in making scientific claims Lyon, 2016; Powers & Hampton, 2019). For (Vazire, 2018). The concepts of transparency example, Fecher and Friesike (2014) describe and rigor are important to these conversations. Transparency can be defined as "the obligation" (1) creating openly available platforms, tools, to make data, analysis, methods, and inter- and services for scientists; (2) making science pretive choices underlying their claims visible accessible for citizens; (3) developing alternain a way that allows others to evaluate them" tive measures of impact; (4) making knowledge (Moravcsik, 2019). Rigor can be defined as "the freely available for everyone; and (5) making strict application of the scientific method to the knowledge creation process more efficient. ensure unbiased and well-controlled experi- Notably, their description of open science does mental design, methodology, analysis, inter- not explicitly discuss transparency regarding

The social sciences have been undergoing Institutes of Health [NIH], n.d.). Within the a credibility revolution, also known as open science movement, discussions around five schools of open science which focus on pretation and reporting of results" (National the decisions researchers make during the re-

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The Open Science Movement in the Social Sciences

- Recent emphasis on transparency and reproducibility
- Dominant quantitative focus in transparency debates
- Limitations of applying quantitative standards to qualitative research

Transparency and Rigor in Qualitative Research

- Definition and importance of transparency and rigor in research
- Qualitative methods: Positionality, reflexivity, and detailed method descriptions
- Risks of imposing quantitative standards on qualitative research



Advancing Open Science through Qualitative Methods

- Need for broader guidelines in open science that accommodate qualitative methods
- The role of qualitative research in understanding context and validity
- Suggestions for integrating qualitative methods in open science practices

Conclusion and Future Directions

- Rethinking rigor and transparency in open science to include qualitative perspectives
- Potential for richer, more inclusive research frameworks
- Need for ongoing dialogue between qualitative and quantitative researchers



A new twist to....?



Part II

"Internal" discussion (without authors)!

Part III

Open Q&A and discussion session with the paper's authors!