**OSSSG fifth session: Troubleshooting Open Science**

**Date:** December 4, 2020

**Location:** Zoom

**Presenter:** Rosemary Twomey

**Session description:** This semester, the OSSSG held biweekly sessions to learn about several open science topics, including introduction to open science, project workflow, open data and data sharing, and pre-registration. The final session of the semester will center around discussing barriers to implementing open science practices and troubleshooting these issues. We will be joined by Dr. Rosie Twomey, a post-doctoral fellow in the Cummings School of Medicine and member of the Society for Transparency, Openness, and Replication in Kinesiology (STORK). Dr. Twomey will tell us about her open science journey and experience, suggest workarounds to common barriers, and share resources. Attendees are asked to bring a few questions or problems to discuss if possible. All are welcome to attend!

**Link to video recording of presentation:**

**Link to slides:**

**Challenges:**

WHERE TO START

* Transparent reporting withina manuscript (e.g., supplementary material);
* Distinguishing between confirmatory and exploratory research;
* Conducting analyses in an open-source software (e.g., Jamovi, R)
* Using the Open Science Framework to openly share study materials;
* Providing an open comment/feedback on a preprint (supporting the community);
* Consulting your ethics board about sharing de-identified data for studies that studies that are already in progress.

WHERE TO AIM

* State requirements for transparency upfrontwhen beginning new project;
* Support a meta-research project;
* Use open science as a teaching and mentorship tool.

**Resources:**

* MunafòMR, NosekBA, Bishop DVM, Button KS, Chambers CD, Perciedu SertN, et al. A manifesto for reproducible science. Nature Human Behaviour. 2017;1: 1–9. doi: <https://doi.org/10.1038/s41562-016-0021>
* RIOT Science Club: <https://www.youtube.com/playlist?list=UUqAkVUPSOg0bC5dB9tPRAVw> including Dr Florian Markowetzon Five selfish reasons to working reproducibly: <https://www.youtube.com/watch?v=S8bU1CyEkRM&list=UUqAkVUPSOg0bC5dB9tPRAVw>
* [SHERPA/JULIET](http://www.sherpa.ac.uk/juliet/) - Summaries of research funder open access policies.
* [SHERPA/RoMEO](http://www.sherpa.ac.uk/romeo.php) - Provides a searchable database of publisher policies on copyright and archiving
* PownallM, Talbot CV, Henschel A, LautarescuA, Lloyd K, Hartmann H, … Siegel JA (2020, October 13). Navigating open science as early career feminist researchers. <https://doi.org/10.31234/osf.io/f9m47>
* Science Fictions: The Epidemic of Fraud, Bias, Negligence and Hype in Science by Stuart Ritchie (<https://www.sciencefictions.org/>)