**Open Science Student Support Group: Facilitator's Guide**

Thank you for participating in an Open Science Student Support Group session! This guide will outline what the session is about, challenges based the session topic, the session agenda with key roles outlined for each agenda item, discussion questions for each round, and facilitation tips.

**Session topic:** Intro to Open Science

**Date:** October 9, 2020

**Time:** 4pm - 6pm

**Location:** Zoom (registration required to access link)

**Presenter:** Gwen van der Wijk

**Main facilitator:** Emiko Muraki

**Chat facilitator:** Chelsea Moran

**Breakout facilitator(s):**

**Session description:**

Not sure what Open Science is about? Or maybe you do, but don’t know where to get started with making your own research more ‘open’? Join our first session to get an overview of different open science practices, why such practices are crucial for advancing psychological science, what the benefits and risks of these practices are and how you can start implementing such practices into your research! With lots of discussion and challenges of different difficulty levels, there will be something to gain for everyone!

**Pre-session materials (all optional!!):**

Listen (podcasts):

* Open science talks: [What is open science?](https://septentrio.uit.no/index.php/OSTalk/article/view/5266/4994) (~15 minutes)
* Radiolab: [Stereothreat](https://www.wnycstudios.org/podcasts/radiolab/articles/stereothreat) (~40 min)
* The black goat: [It’s so complicated](https://www.theblackgoatpodcast.com/posts/its-so-complicated/) (~70 min)

Watch (videos):

* Short video introducing open science: [Open science: what, how & why?](https://www.youtube.com/watch?v=3m6p6w8oOw4) (~4 min)
* Ted Talk about current research culture and open science as a solution: [Research Culture is Broken: Open Science can Fix It](https://www.youtube.com/watch?v=c-bemNZ-IqA) (~15 min)
* Lecture on open science: [Open Science is just good science](https://www.youtube.com/watch?v=UEEcwRUgQu8) (~40 min)

Read (articles/papers):

* Bahlai, C., Bartlett, L. J., Burgio, K. R., Fournier, A., Keiser, C. N., Poisot, T., & Whitney, K. S. (2019). Open science isn’t always open to all scientists. *American Scientist, 107*(2), 78-82.
* Kathawalla, U., Silverstein, P., & Syed, M. (2020, May 8). Easing Into Open Science: A Guide for Graduate Students and Their Advisors. https://doi.org/10.31234/osf.io/vzjdp

Great overview of more resources presented in a tiered way so you can select what you have time for: [A Guide for Open Science for People Who Are Already Too Busy](https://medium.com/@mullarkey.mike/a-guide-to-open-science-for-people-who-are-already-too-busy-e42f6ac3a1c7)

**Land acknowledgement\***

On behalf of the Open Science Student Support Group, I acknowledge that we live on the traditional territories of the Blackfoot and the people of the Treaty 7 region in Southern Alberta, which includes the Siksika, the Piikuni, the Kainai, the Tsuut’ina, and the Stoney Nakoda First Nations, including Chiniki, Bearspaw, and Wesley First Nation. This land is also home to Métis Nation of Alberta, Region III.

For thousands of years before colonization, the lands we find ourselves on today were a

significant gathering place known as MOH-kin-stsis in the Blackfoot tongue, which translates to

“Elbow”. In 1875, only 145 years ago, a North-West Mounted Police station was established here and two years later, a document known as Treaty 7 was signed. It is well accepted that negotiations were carried out in bad faith and signatures obtained under false pretenses. The truth is these lands were stolen through these bad-faith Treaty 7 negotiations that were conducted in the midst of genocides that are ongoing to this day. As I continue to live on this land, I am a colonist and bear responsibility for the ongoing injustices from which I draw benefit - including land theft and alienation, forced assimilation, degradation and even criminalization of Indigenous culture, as well as many other forms of individualized and structural violence.

In recent years, it has become an accepted part of meetings such as this to acknowledge the legal framework by which colonization of this land was justified. While doing this today, we feel it is important to do so in a way that does not lend implicit support to the status quo. When talking about open science, we recognize that science and its history are intimately intertwined with ideas of colonialism and racism, and we cannot address systemic issues in academia without also addressing broader inequalities and injustices present in our society. We believe science can only be truly open and beneficial to all if it is diverse, inclusive and open to challenges to existing norms, and actively work to dismantle the dominant colonial culture that stands in the way.

\*Adapted from a talk given by Jeremy Morris on behalf of Extinction Rebellion Calgary

Map of turtle island & Indigenous territories: <https://native-land.ca/>

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| **Time** | **Length** | **Item** | **Resources** |
| 4pm | ~5 min | Welcome and introduction  Land acknowledgement | Main facilitator |
| 4:05pm | ~15 - 30min | Round 1 (full group)  Introductions   * Name * Pronouns * Research lab/supervisor * Interests (academic and otherwise) * What do you know about open science? | Main facilitator |
| 4:35pm | ~10 - 20 min | Presentation | Presenter |
| 4:55pm | ~10 min | Questions to the Presenter | Main facilitator  Chat facilitator |
| 5:05pm | ~20 min | Round 2 (breakouts)   * Do you have any questions about today's topic? * What is the most important practice we have discussed today for you? | Main facilitator  Chat facilitator  Breakout facilitators |
| 5:25pm | ~30 min | Round 3 (breakouts)   * How do these practices relate to your own projects?   + What stage of the research cycle is (are) your project(s) in? * What practices would you like to incorporate into your everyday work? | Main facilitator  Chat facilitator  Breakout facilitators |
| 5:55pm | ~5 min | Wrap up   * Closing ritual/positive example of open science * Introduce topic for next session | Main facilitator |

**Challenges:**

Learn more about it!

* Check out the resources we’ve collected and read/watch/listen to something

Talk about it!

* Ask a question/share something you’ve recently learned about open science on Slack (use the #session1\_open\_science\_intro channel)
* Share and discuss the article by Kathawalla et al. (2020) with your supervisor/lab

Try it out!

* Create an OSF account, set up a project and upload/organize your files (private/public)

Implement it!

* Create an overview of the different open science practices at each stage of a project and place it on/around your desk
* Commit to joining our sessions this semester Session agenda

**Facilitation tips (adapted from** [**Facilitating Group Discussions**](https://web.stanford.edu/group/resed/resed/staffresources/RM/training/facilguide.html#situs)**)**

* Start the discussion with going around and letting everyone share their thoughts/comments about the topic. The purpose is to give everyone space to speak without requiring them to pus. There should not be pressure for everyone to speak, though, anyone can pass when their turn comes. An example of introducing such a structure would be:
  + "We’ll start the discussion by going around and giving everyone a minute or two to share their thoughts to make sure everyone has a chance to be heard. Then we’ll open the floor to anyone who wants to respond or has any additional thoughts they want to share. If you don’t feel like sharing, feel free to pass when your turn comes.”
* If the discussion isn't flowing, ask follow-up and/or probing questions, such as:
  + "Can you say a little more about..."
  + "Can you give us an example?"
  + Offer a comment and ask for agreement or disagreement from the group
* If someone is monopolizing the discussion, try redirecting with statements like:
  + "I'd like to hear what others have to say about that" referring to what the speaker just said
  + Ask another person a question when the speaker takes a pause
  + Explain that you appreciate their viewpoint, but you would like to make sure everyone has a chance to contribute
* If someone keeps changing the subject or goes on tangents:
  + "That's really interesting, how do you feel about...." and then redirect to the topic
* If people keep interrupting:
  + Try to manage the conversation order, such as "Okay, first Sarah, then Randy, then Marie"
  + Try to re-establish the conversation order "You make an interesting point. I'd like to finish hearing from Renee, and then I know that Tom wanted to add thoughts as well"
* If someone expresses judgement/hostility towards another individual:
  + Remind everyone that open science is a process, and that we are all here because we are interested in incorporating this into our work

**Topic resources:**

* Podcasts:
  + [Open access in Latin America](https://septentrio.uit.no/index.php/OSTalk/issue/view/445) (~15 min)
  + [Publising in the global south](https://septentrio.uit.no/index.php/OSTalk/issue/view/443) (~15 min)
  + [A student’s perspective](https://septentrio.uit.no/index.php/OSTalk/issue/view/459) (~15 min)
* Videos:

https://www.youtube.com/watch?v=KoyEfw\_gwFY

https://www.youtube.com/watch?v=c-bemNZ-IqA

Interview with Alexandra Elbakyan on Sci-hub project and open access to scientific papers:

https://www.youtube.com/watch?v=dz1Uj20tZvs

Brian Nosek (creator of OSF) on open science: https://www.youtube.com/watch?v=DBGvZ0ni5Tk

* Papers:
  + Kathawalla et al., 2020: Easing Into Open Science: A Tutorial for Graduate Students