

The Replicability Crisis and the Solution: Open Science Practices

Wednesday, April 24, 2019, 9:00-11:00

MCLD 242 (UBC Point Grey)

About a decade ago, John Ioannidis claimed that “most published research findings are false.” While seeming outrageous at the time, a growing body of meta-science research has substantiated this claim, causing uncertainty about the trustworthiness of published scientific findings. We believe that threats to the validity of published findings in science are widespread and systemic.

Open Science refers to a broad, transdisciplinary movement that aims to open up research processes to promote the integrity, reproducibility, and value of scholarly work. Responding to pressing credibility, questionable research practices, and replicability problems in science, this movement has thoroughly changed the fields of medicine, psychology, economics, genomics, and physics. For example, all research papers by CERN-affiliated authors are published as Open Access, but free and open access to the papers is not enough for Open Science. Research data, code, and documentation each play a part in increasing the transparency and reusability of research output. Open Science provides a solution for practicing credibility, transparency, and replicability.

Topics covered in the workshop include: Questionable research practices, protocols and pre-registration plans, open access and open data, the open science framework, and reproducible workflows including version control and data management open data.

About the speakers

Carole Lunny is a postdoctoral fellow at UBC’s Department of Anesthesiology, Pharmacology & Therapeutics. She specializes in methods for research synthesis and completed her PhD at Cochrane Australia at Monash University’s School of Public Health and Preventive Medicine. She has worked in the field of systematic reviewing and meta-analysis for the past 12 years.

She is a member of the Cochrane Collaborations Statistical methods group, and the Open Science Taskforce at UBC. She is also a representative on the Graduate & Postdoctoral Education Committee and the Faculty of Medicine Post-Doctoral Professional Development Team.

Mathew Vis-Dunbar is the Southern Medical Program Librarian at UBC Okanagan, where he also works with Biology and the School of Health and Exercise Sciences.

Promoting Open Scholarship and Open Science, Mathew works closely with colleagues across UBC, in undergraduate classrooms and research, to encourage the integration and use of Open Science tools and practices.

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