Proposed title and organizers (names, affiliations, emails) Please identify one person as the primary contact person.

Title: Reproducible Social Science Research: Why and How
Organizer: Sam Harper, PhD
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Description of workshop objectives, goals, and expected outcomes.

The objective of this workshop is to provide participants with an overview of the rationale for why funders, investigators, students, and practitioners of social science research should aim to make their research transparent and fully reproducible. The goal is for participants to leave the workshop with a strong grasp of why adopting transparent and reproducible research practices is important throughout the research life cycle, and with some hands-on experience with the tools to do so.

Statement on how the workshop can benefit PAA 2020 attendees.

Many attendees of PAA are either producers or consumers of social science research, and have a fundamental interest in making research more robust and credible. A lack of transparency in the practice of how research is conducted leads to diminished research quality, non-replicable findings, and research waste. PAA attendees will benefit from being aware of the so-called “replication crisis” and learning how to make their research transparent. One reason I think this should have broad appeal is that reproducible research practices are relevant across all domains of PAA attendees, regardless of whether they are primarily interested in quantitative or qualitative research (though the workshop will be heavily geared toward the former rather than the latter).

Description of target audience and estimated number of participants (minimum and maximum).

Primarily graduate students and early-career researchers, though I also think that senior faculty and researchers that are interested in open science would benefit. I would consider a minimum of perhaps 6 participants, and no more than, say, 20.

Preferred workshop day(s) to be held: Tuesday, April 21st, Wednesday, April 22nd, or Saturday, April 25th.

No strong preference, but Tuesday, April 21st seems like the best choice and Saturday, April 25th the worst choice.

Proposed workshop duration (1/2 day, 1 day, 1.5 day, 2 day), format, activities, and schedule.

Proposed Duration: 1/2 day
Format: A combination of short lecture material, collaborative group work, as well as hands-on exercises.
Activities: The workshop will provide:

- An introductory, high-level overview of what it means to engage in reproducible research;
- Guidance on how to create a management plan for a research project and a structured workspace for the project that facilitates a reproducible workflow;
- A discussion of pre-registration and pre-analysis plans for both experimental and observational research designs;
- An introduction to version control and dynamic documents; and
- Tools and guidance for how to ethically and responsibly share the outputs of a research project, including data, code, and research reports.

The workshop will be conducted using both R and Stata, but will focus on general practices and core principles that can be adapted to any software platform.

**A/V needs beyond what is provided (see below).**

I don’t think any beyond what is provided.

**Short biographical sketches of presenters. Please include a link to a current CV.**

Sam Harper received his PhD in Epidemiologic Science from the University of Michigan. He is currently Associate Professor in the Department of Epidemiology, Biostatistics & Occupational Health at McGill University, and holds an endowed chair in Public Health at Erasmus University in Rotterdam. He is also a member of the McGill University Centre on Population Dynamics and the Institute for Health and Social Policy.

His research focuses on understanding population health and its social distribution, with specific interests in impact evaluation, measuring health inequalities, global health, demography, causal inference, and reproducible research. He is currently a 2019-2020 Faculty Fellow in Project TIER (Teaching Integrity in Empirical Research), whose mission is to promote a systemic change in professional norms related to the transparency and reproducibility of empirical research in the social sciences. More information on specific projects, papers, students, and teaching are available in his CV.