

TALK

OPEN SCIENCE

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ABSTRACT

This interactive session introduces participants to open science principles and practices, with a focus on immediate application to the research projects being developed during the Summer Institute. The session considers how transparency, reproducibility, and accessibility contribute to more credible and useful research. Participants will examine the rationale behind open science, including concerns around research integrity and the reproducibility crisis. Through guided discussion and short activities, we will explore the distinction between exploratory and confirmatory research, and how preregistration can help clarify hypotheses and analysis plans—thus avoiding common pitfalls sometimes referred to as the horsemen of irreproducibility. With support, each group will draft a preregistration for their project using a simplified template.

The workshop will also address practical aspects of open data and materials sharing, including ethical considerations around consent, anonymisation, and reuse. Participants will work through typical challenges in data documentation and evaluate examples of both strong and weak transparency practices. Throughout the session, we will emphasise open science as a flexible, evolving approach to responsible research—not a rigid checklist. By the end of the workshop, participants will be better equipped to consider how open science practices can strengthen the quality and integrity of their own research. Before attending this session, please make sure you have created an account on the Open Science Framework (<https://osf.io>).