

Bridging Metascience, Pedagogy and Policy: FORRT's Vision for Open, Reproducible, and Ethical Research and Training

Asst. Prof. Dr. Flavio Azevedo, Dept. of Interdisciplinary Social Science, Utrecht University, The Netherlands



Abstract

The Framework for Open and Reproducible Research Training (FORRT; <https://forrt.org>) is a global, community-driven initiative dedicated to integrating open scholarship and research credibility into higher education. FORRT fosters a culture of responsible and transparent scientific inquiry by developing educational resources, structured training materials, and pedagogical strategies that support researchers, educators, and students in adopting open and reproducible research practices.

FORRT provides comprehensive lesson plans, interactive teaching tools, curated repositories of open science literature, and guidelines for integrating reproducibility into academic curricula. Its initiatives include systematic reviews of open scholarship pedagogy, the Replication Hub, open-access educational frameworks, and collaborative training programs that equip scholars with the skills to navigate methodological transparency, ethical authorship, and responsible data stewardship. Through mentorship programs and interdisciplinary workshops, FORRT helps build research literacy and critical engagement with open science across different career stages and disciplines.

Additionally, FORRT is co-developing R2, a journal dedicated to reproducible research, embedding open peer review, transparent authorship, and structured guidance for replication studies. By linking educational reform with open science advocacy, FORRT ensures that reproducibility and credibility are not just ideals but accessible practices within academic training.

By bridging pedagogy, metascience, and policy, FORRT is shaping the future of open, reproducible, and ethically responsible research training—empowering educators, researchers, and students to engage with science in a way that is rigorous, transparent, and globally accessible.