

Alexandre Hocquet and
Käte Hamburger Kolleg Aachen:
Cultures of Research (c:o/re)
RWTH Aachen University

c:o/re Workshop: Computational Reproducibility and Open Science (23./24. January 2022)

Location: FZ Jülich & RWTH, Theaterstr. 75 (Stadtpalais)

Program:

Wed., 23.03.

Closed discussion at FZ Jülich

Konrad Hinsén (CBM CNRS, Orléans)
Frédéric Wieber (Archives Henri-Poincaré, Nancy)
Alexandre Hocquet (c:o/re Aachen, Archives Henri-Poincaré, Nancy)
Gabriele Gramelsberger (c:o/re Aachen)

Thur., 24.03.

13:00–15:00 c:o/re workshop, Stadtpalais lecture room & online

**“The past, present, and future of reproducible computational
research practices”**

Konrad Hinsén (CBM CNRS, Orléans)
Alexandre Hocquet (Archives Henri-Poincaré, c:o/re Aachen)
Frédéric Wieber (Archives Henri-Poincaré)

END

Abstract

“The past, present, and future of reproducible computational research practices” (Hinsen, Hocquet, Wieber)

Reproducibility has been considered one of the core values of science since the beginnings of organized research in the 17th century, even though it has never been obvious in practice. Whereas its role as an indicator of rigor and trustworthiness has remained the same, its technical and social embodiment has evolved together with scientific methods and institutions. AH and FW will first present a short outline of this evolution and briefly assess the interest of focusing on software as a research object for historians of science. KH will then focus on the aspects specific to computational research, which is characterized by the determinism of its fundamental technique on one hand, and by the complexity of its software on the other hand. The roles of reproducibility and replicability therefore differ from their traditional ones in experimental research. We will conclude with an outlook towards the emergent practices of Open Science, in which reproducibility is increasingly considered an important quality label.

Alexandre Hocquet and Frédéric Wieber are historians of science. Their main research interest is the role of software in computer simulations.

Konrad Hinsén is a computational biophysicist, with a special interest in computational reproducibility issues, and one of the founders of the ReScience C journal.

A brief video of a dialogue of theirs, part of a MOOC on reproducible research is available on YouTube.

Join Zoom Meeting

<https://rwth.zoom.us/j/95006282626?pwd=OGJnc1ZlY29sU1BzMWNTNWZLcjhZz09>

Meeting ID: 950 0628 2626

Passcode: 435035