Replication in crisis – scientific validation in practice

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Replication is one of the main criteria for the validation of research outcomes. Discussions about a ‘replication crisis’ started in psychology and have since raised awareness about the scope of failing to reproduce original studies for science as a whole, both in the social and behavioral sciences and beyond. In these discussions, the processes for legitimating evidence are at stake. By examining how the concept of ‘replication’ is understood in scientific practice, epistemically and socially relevant features of validation procedures in the sciences can be revealed. This poster contributes to clarifying the concept of replication in scientific practice.

I want to draw attention to both analytical challenges (to the analyst) and methodological concerns (in the sciences) by combining literature analysis and qualitative research methods. In light of discussions about replication in philosophy and science studies (e.g. Franklin, Collins), I examine two sets of sources: recent scientific publications related to the “replication crisis” and semi-structured narrative interviews with researchers about good scientific practice. I draw out scientists’ own views on replications, identify the terms they are using to describe the problem, ask to what extent it is a problem for them, and discuss what significance they attach to practices of replication. The poster will show what sets of data I am using, how the data is analyzed, and what surprising insights can be gained by working with qualitative interviews.

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