SMiP-Training

Workshop Open Science & Research Data Management

The old restrictions of the analogue media are being replaced by digitalization and networking so that all components of the scientific process can be made accessible and reusable. Examples of such components are research plans (designs), instructions, materials, raw data and analysis code. The scientific process is sometimes called research lifecycle. With respect to data, a lifecycle helps to shift the short-term perspective to a long-term one: what is the intended purpose for these research data? How do you make sure that the choices you make when you collect data are robust enough to enable reuse and long-term storage? For research to be as reproducible as possible, research practices and statistical analyses should be made transparent. Likewise, both data and materials should be made public and available for other researchers to examine. Transparency, sharing and collaboration are characteristics of Open Science, which should become the standard for research in Europe.

In this workshop, forms of cooperation/collaboration, methods and digital tools which make it possible to implement Open Science without considerable additional expenditures are introduced. Current procedures will also be introduced and practiced in the context of the following topics: What requirements or recommendations are given by publishing houses, scientific societies or research funders concerning Open Science? How does one archive and document test materials, designs, code, results of experiments, etc.? How does one make it available for others? Which infrastructures are available that support Open Science? What about recognition, esteem and reputational gain through Open-Science practices?

A central point of this workshop is to introduce and practice the procedures for processing research data. What is research data management (RDM) and how does it make the research process as efficient as possible? You will become aware of what data management and a data management plan (DMP) are and why they are important. What are the guiding principles to make data Findable, Accessible, Interoperable, and Re-usable (the FAIR principles)? Which tools exist that assist in the Research Data Management process? Does DataWiz, the automated assistant for the management of psychological research data (developed by ZPID with funding from the German Research Foundation), meet user’s expectations? In this workshop, you will travel through the research data lifecycle from planning, organizing, documenting, processing, storing and protecting your data to sharing and publishing them. After the workshop, participants will have in-depth knowledge and hands-on experience in open science practices and in research data management.
About the Speaker

Dr. Erich Weichselgartner is Deputy Director of the Leibniz-Institute for Psychology Information (ZPID) in Trier (http://leibniz-psychology.org/). ZPID is the Public Open Science Institute for Psychology. It is devoted to safeguarding scientific integrity as well as openness and transparency in psychological research.