

OPEN SCIENCE DAY

23/5/19

9:00 — 17:15, LECTURE HALL

MAX PLANCK INSTITUTE FOR HUMAN COGNITIVE AND BRAIN SCIENCES, LEIPZIG, GERMANY
EMPOWERING OPEN, TRANSPARENT, AND REPRODUCIBLE RESEARCH AT THE MPI CBS

PROGRAM

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**MAX
PLANCK
INSTITUTE** FOR
HUMAN
COGNITIVE AND BRAIN SCIENCES
LEIPZIG

9:00–9:15
OPEN SCIENCE DAY ORGANIZERS
Welcome and introduction

INTRODUCTION TO OPEN SCIENCE

9:15–10:00
CORINA LOGAN

MPI for Evolutionary Anthropology, Leipzig

KEYNOTE LECTURE: **How to improve the value of your research**

There is a desperate need to reform the production and dissemination of scholarly outputs to increase transparency, reproducibility, timeliness, and academic rigor. Evidence suggests that open practices actually help researchers rather than hinder them. I will discuss what researchers are doing to address these issues by sharing ways to facilitate higher quality research and tackle biases in this rapidly changing world of academia and scholarly publishing.

COFFEE BREAK

IN-DEPTH SESSION:
PREREGISTRATION & REGISTERED REPORTS

10:20–11:05
JULIA ROHRER

MPI for Human Development, Berlin

KEYNOTE LECTURE: **Tackling bias with preregistration and registered reports**

Within only a few years, preregistration and registered reports have gained immense popularity. This talk will cover the benefits of these practices for both the scientific community and for individual researchers, but also limitations and practical concerns: What are the potential pitfalls? Which types of research is preregistration suited for? And what options are available to researchers?

11:05–11:25
OLIVER GENSCHOW

Social Cognition Center Cologne, University of Cologne

EXPERIENCE TALK: **Experiences with registered reports**

11:25–11:45
XENIA SCHMALZ

Department of Child and Adolescent Psychiatry, LMU Munich

EXPERIENCE TALK: **Preregistration: Where do I start?**

11:45–12:15
ALL SPEAKERS IN THIS SESSION
Questions & Answers

LUNCH BREAK

OPEN SCIENCE PRACTICES

13:15–14:00
DIRK OSTWALD

Center for Cognitive Neuroscience Berlin, Free University Berlin

OPEN DATA: **Sustainability and transparency in computational cognitive neuroscience**

In this talk, I will discuss open science practices that aim to foster sustainability and transparency in computational cognitive neuroscience. First, I will review recent community efforts that aim to ease data sharing and analytical reproducibility, such as the reports of the OHBM Committees on Best Practice in Data Analysis and Sharing (COBIDAS) and the Brain Imaging Data Structures (BIDS). Second, I will discuss neuroimaging data sharing strategies in the light of ethical and legal constraints, such as the European General Data Protection Regulation (GDPR). Finally, I will discuss some common-sense guidelines for day-to-day research practice that aim to maximize the societal impact of computational cognitive neuroscience.

14:00–14:45
FELIX SCHÖNBRODT

Department of Psychology, Psychological Methods and Assessment, LMU Munich

OPEN STATS: **“Learn to p-hack like the pros!”**

The replication crisis has hit several scientific fields. The most systematic investigation has been done in psychology, which revealed replication rates less than 40% (Open Science Collaboration, 2015). However, the same problem has been well documented in other disciplines, for example preclinical cancer research or economics. It has been argued that one reason for the high prevalence of false-positive findings is the application of “creative” data analysis techniques that allow to present nearly any noise as significant. Researchers who use such techniques, also called “p-hacking” or “questionable research practices”, have higher chances of getting things published. What is the consequence? The answer is clear. Everybody should be equipped with these powerful tools of research enhancement. This talk covers the most commonly applied p-hacking tools, and shows which work best to enhance your research output: “If you torture the data long enough, it will confess!”. But be careful: Recently developed tools allow the detection of p-hacking. The talk also covers some ideas how to overcome the replication crisis.

COFFEE BREAK

15:05–15:50
KARINA NÄTHE

MPI for Human Cognitive and Brain Sciences, Leipzig

OPEN ACCESS: **Introduction to Open Access at MPS**

This introductory session aims to give background information about open access publishing in the Max Planck Society and our Institute. Basic information about the golden and green route to open access will be provided. All central agreements and further related terms and conditions for Max Planck authors will be explained. As a very important outcome the session should start a discussion what kind of services related to open access publishing is missing at the Institute and could possibly part of the library services. Establishing an open access policy is a conceivable objective.

PANEL DISCUSSION

15:55–17:00
ALL SPEAKERS
Moderator: **SABRINA WALTER**

MPI for Evolutionary Anthropology, Leipzig

17:00–17:15
OPEN SCIENCE DAY ORGANIZERS
Wrap-up

DINNER & DRINKS
(on own expenses)