



## IMPRS on Cognitive NeuroImaging

### Matlab for Advanced Users (Scientific Course)

18 May – 20 May 2026  
10am–3pm CEST

#### Description

We will start with basic operations on vectors and matrices and will also briefly look at non-numeric data. We will then cover conditional statements and iterative statements and will work on writing simple scripts. We will also look at how to get data into and out of Matlab and how to plot data in various simple ways. We will spend a large amount of time on how to write (and debug) more complex pieces of code, using functions. If time permits, we will also cover some of the following topics that can be helpful during typical research projects: i) using regular expressions, ii) using different data types, iii) integrating Matlab with other tools, v) interacting graphically with a user, and vi) more complex data visualization. Ideally, we will also spend quite some time on data analysis.

**Instructor:** Dr Falk Eippert

#### Credit Points

Participants have the possibility to receive 1 ECTS CP. Conditions: 80% attendance and submission and positive evaluation of written assignment (details will be specified at the beginning of the lecture series).

#### Target group

Doctoral researchers of IMPRS CoNI and reserachers from the graduate school BrainDynamics. External participants are possible if free spots are available, but require endorsement from one of our IMPRS CoNI faculty members.

#### Venue

Computer Training Room (A412), Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig

#### Organiser

International Max Planck Research School on Cognitive NeuroImaging (IMPRS CoNI)

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