**CPCZurich2021 Practical Tutorial H – rDCM – An Advanced Model Of Connectivity**

**Installation Guide**

**Authors / Tutors**: Stefan Frässle ([stefanf@biomed.ee.ethz.ch](mailto:stefanf@biomed.ee.ethz.ch)), Computational Psychiatry Course 2021, Zurich, Switzerland.

**Revision and testing**: Inês Pereira (pereira@biomed.ee.ethz.ch)

**rDCM Toolbox**

In order to install the ***r****egression* ***D****ynamic* ***C****ausal* ***M****odeling (rDCM)* Toolbox, please follow these steps:

1. **Install Matlab:** For this tutorial, you need Matlab with the statistics toolbox. We recommend using Matlab R2016a or newer (<https://www.mathworks.com/products/get-matlab.html>).
2. **Install a C Compiler:** For the rDCM Toolbox, you need a C-compiler alongside Matlab. We recommend **MinGW** (Windows), **Xcode** (Mac) or **GCC** (Linux) which are available free of charge. Detailed instructions can be found at: <https://ch.mathworks.com/support/requirements/supported-compilers.html>.
3. **Download TAPAS** (***T****ranslational* ***A****lgorithms for* ***P****sychiatry* ***A****dvancing* ***S****cience*): Download the TAPAS toolbox (as zip-file) at: <https://translationalneuromodeling.github.io/tapas/#download>.
4. Put the code and the material in a folder/directory which you will use for the practical tutorial (e.g., Desktop/CPC2021/rDCMTutorial).

**Make sure you do not have any spaces in the titles of your folders!**

1. **Open Matlab**. You will see the following interface:

A screenshot of a social media post

Description automatically generated

Fig. 1: Illustration of the MATLAB interface.

1. **Setup TAPAS:** Unzip the zip-file and add the “tapas-master/rDCM” folder to your Matlab path by, in Matlab, navigating to the folder/directory you prepared (*e.g.,* “rDCMTutorial”). Then right-click on the directory and on “Add to Path”, “Selected Folders and Subfolders”.

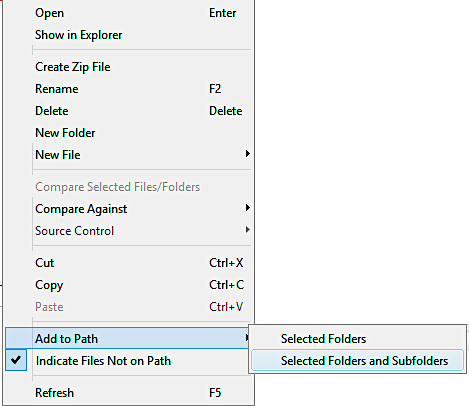


Fig. 2: Illustration of how to add a path (and all its subfolders) in MATLAB.

1. Well done! You’re all set up for the Practical Tutorial session. If you are keen, you could already have a look at the manual of the toolbox and run the short beginner’s tutorial (**tapas\_rdcm\_tutorial.m**) before the Practical Tutorial session. To run this tutorial, simply type tapas\_rdcm\_tutorial in the Command window (see Fig. 1).

Well done! You’re all set up for the Practical Tutorial session.

If you have trouble getting to this point before the Practical Tutorial Session, please consult the **#tutorial-helpdesk channel on Slack**. You will be given access to the CPC Slack workspace at the beginning of the course. Check if anyone has had the same issue and has managed to solve it and how. If no one else has encountered the same problem, post your question. **Inês** will be monitoring the channel and providing support. In addition, given the volume of attendees this year, we would be really grateful if you could assist us by answering queries on Slack yourself if you come across a problem you know and have solved.

For those who need more personalized help, Inês will be offering support hours. More information on the exact time will follow.