

# NODE #6 BERLIN

## PRACTICAL BRAIN NETWORK MODELING

FEB  
26th  
2018

Get up to speed about the fundamental principles of full brain network modeling using the open-source neuroinformatics platform The Virtual Brain (TVB).

TVB enables biologically realistic modeling of network dynamics using Connectome-based approaches across different brain scales.

Generate macroscopic neuroimaging signals incl. fMRI, intracranial and stereotactic EEG, surface EEG and MEG for single subjects.

### A workshop hosted by the TVB team at:

Charité – Universitätsmedizin Berlin

& Berlin Institute of Health, Charitéplatz 1

On Campus:

Bonhoefferweg 3, Dept. Neurology ("Alte Nervenklinik")

3rd floor, Room: Seminarraum 3

10117 Berlin, Germany

### PROGRAM: MORNING SESSION

08:30 - 09:00 am

Registration & Coffee

09:00 - 09:15 am

Introduction

Petra Ritter, Charité

Universitätsmedizin Berlin & Berlin Institute of Health

09:15 - 10:15 am

A generative model of the brain: Describing the building blocks of a brain network model

Randy McIntosh, Baycrest Centre & University of Toronto

10:15 pm - 11:15 am

Constructing personalized models from empirical data

Michael Schirner, Charité

Universitätsmedizin Berlin & Berlin Institute of Health

11:15 - 11:30 am

Coffee break

11:30 - 12:30 pm

How to interact with the GUI & script interface

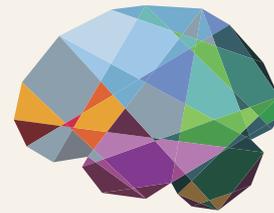
Paula Popa & Mihai Andrei, Codebox/Codemart

12:30 - 13:00 pm

Hands-on Session: Introduction to the GUI

01:00 - 02:00 pm

Lunch break (will be provided)



## THEVIRTUALBRAIN.

### MORE INFORMATION & REGISTRATION:

[WWW.THEVIRTUALBRAIN.ORG/NODE6](http://WWW.THEVIRTUALBRAIN.ORG/NODE6)

### PROGRAM: AFTERNOON SESSION

02:00 - 02:45 pm

Brain stimulation in TVB

Andreas Spiegler, Charité

Universitätsmedizin Berlin & Berlin Institute of Health

02:45 - 03:15 pm

Hands-on Session: Brain stimulation

03:15 - 04:00 pm

Clinical applications of TVB - Alzheimer's Disease & Stroke

Randy McIntosh, Baycrest Centre & University of Toronto

04:00 - 04:30 pm

Hands-on Session: Stroke

04:30 - 04:45 pm

Coffee break

04:45 - 05:30 pm

Clinical applications of TVB - Epilepsy

Julie Courtiol, Aix-Marseille Université

05:30 - 06:30 pm

Hands-on Session: Epilepsy & mouse simulation with GUI & script interface

Paul Triebkorn, Charité

Universitätsmedizin Berlin & Berlin Institute of Health

Closing remarks

08:00 pm

Dinner (with booked ticket only)

Ristorante Pascarella (Chausseestraße 30, 10115 Berlin)