

CPC 2019

SCHEDULE



MONDAY, 02.09.
CLINICAL PSYCHIATRY



TUESDAY, 03.09.
MODELING BASICS,
MODELS OF PERCEPTION & LEARNING



WEDNESDAY, 04.09.
MODELS OF DECISION MAKING,
BIOPHYSICAL MODELS &
MACHINE LEARNING



THURSDAY, 05.09.
APPLICATIONS OF
COMPUTATIONAL PSYCHIATRY



FRIDAY, 06.09.
PRACTICAL TUTORIALS



CPC 2019

SCHEDULE

MONDAY - 2nd September 2019, location: NO, C60

07:30 - 08:30	Registration	
08:30 - 08:45	Introduction to Day 1	Klaas Enno Stephan
08:45 - 09:35	Introduction to Computational Psychiatry	Klaas Enno Stephan
09:35 - 10:25	Affective Disorders	Gina Paolini
10:25 - 10:55	Break (catering)	
10:55 - 11:45	Schizophrenia	Jakob Siemerkerus
11:45 - 12:35	Psychosomatics	Roland von Känel
12:35 - 14:05	Lunch Break (no catering)	
14:05 - 14:55	Addiction	Marcus Herdener
14:55 - 15:45	Bipolar Disorder	Helen Schmidt
15:45 - 16:15	Break (catering)	
16:15 - 17:05	Introduction to Computational Modeling	Klaas Enno Stephan

PSYCHIATRY

TUESDAY - 3rd September 2019, location: NO, C60

08:15 - 08:30	Introduction to Day 2	Klaas Enno Stephan
08:30 - 09:10	Mathematical Basics	Yu Yao
09:10 - 09:50	Step-by-step guide: Building a Model	Stefan Frässle
09:50 - 10:20	Break (catering)	
10:20 - 11:30	Model Inversion (MCMC, VB & BMS)	Lionel Rigoux
11:30 - 12:15	Psychophysics	Frederike Petzschnner
12:15 - 13:45	Lunch Lottery (no catering)	
13:45 - 14:35	Bayesian Models of Perception	Frederike Petzschnner
14:35 - 15:30	Predictive Coding	Lilian Weber
15:30 - 16:00	Break (catering)	
16:00 - 16:55	Hierarchical Gaussian Filter	Christoph Mathys
16:55 - 17:50	Reinforcement Learning	Woo-Young Ahn

MODEL BASICS, PERCEPTION AND LEARNING



CPC 2019

SCHEDULE

WEDNESDAY – 4th September 2019, location: NO, C60

08:15 - 08:30	Introduction to Day 3	
08:30 - 09:25	Active Inference	Philipp Schwartenbeck
09:25 - 10:20	Drift-Diffusion Model	Ariel Zylberberg
10:20 - 10:50	<i>Break (catering)</i>	
10:50 - 11:45	Machine Learning	Andre Marquand
11:45 - 12:40	Machine Learning Advanced	Andre Marquand
12:40 - 14:10	<i>Lunch Break (no catering)</i>	
14:10 - 15:05	DCM for fMRI	Jakob Heinze
15:05 - 16:00	DCM for EEG	Dario Schöbi
16:00 - 16:30	<i>Break (catering)</i>	
16:30 - 17:25	Advanced Models of Connectivity	Stefan Frässle, Yu Yao

MODELS OF DECISION MAKING & BIOPHYSICAL MODELS

THURSDAY – 5th September 2019, location: NO, C60

08:15 - 08:30	Introduction to Day 4	
08:30 - 09:20	Model-Based Planning, Metacognition and Compulsivity	Claire Gillan
09:20 - 10:10	Dissecting Psychosis through Computational Psychiatry	Phil Corlett
10:10 - 10:40	<i>Break (catering)</i>	
10:40 - 11:30	TBA	Rebecca Lawson
11:30 - 12:20	Uncertainty Misestimation in the Affective Disorders	Michael Browning
12:20 - 14:20	<i>Lunch (no catering)</i>	
14:20 - 15:10	Computation in Psychotherapy	Michael Moutoussis
15:10 - 16:00	Measuring Brain Connectivity & Neuro-transmission for Neuropsych. Investigations	Rosalyn Moran
16:00 - 16:30	<i>Break (catering)</i>	
16:30 - 17:30	Roundtable Discussion	

APPLICATIONS OF COMPUTATIONAL PSYCHIATRY



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SCHEDULE

FRIDAY – 6th September 2019

08:15 - 11:45 Practical Tutorials: Morning

Tutorial A: Hierarchical Gaussian Filter	Lilian Weber Tore Erdmann Sandra Iglesias
Tutorial B: Active Inference	Philipp Schwartenbeck Thomas Parr
Tutorial C: Reinforcement Learning & Decision Making	Woo-Young Ahn
Tutorial D: Model Inversion	Lionel Rigoux
Tutorial E: Machine Learning	Thomas Wolfers
Tutorial F: Dynamic Causal Modeling	Jakob Heinzle Sam Harrison
Tutorial G: Advanced Models of Connectivity	Stefan Frässle Yu Yao
Tutorial H: Metacognition	Stephen Fleming Olivia Faull

13:30 - 17:00 Practical Tutorials: Afternoon

Tutorial A: Hierarchical Gaussian Filter	Lilian Weber Tore Erdmann Sandra Iglesias
Tutorial B: Active Inference	Philipp Schwartenbeck Thomas Parr
Tutorial D: Model Inversion	Lionel Rigoux
Tutorial E: Machine Learning	Thomas Wolfers
Tutorial F: Dynamic Causal Modeling	Jakob Heinzle Sam Harrison
Tutorial G: Advanced Models of Connectivity	Stefan Frässle Yu Yao
Tutorial H: Metacognition	Stephen Fleming Olivia Faull

PRACTICAL TUTORIALS

