



# SCHEDULE

## CPC 2017

MONDAY, 28.08.2017

PSYCHIATRY

7:30	8:30	Registration	
8:30	8:45	Welcome & overview	
8:45	9:15	Introduction to Computational Psychiatry	Klaas Enno Stephan
9:15	10:05	Affective Disorders	Dominik Bach
10:05	10:35	Break	
10:30	11:20	Addiction	Quentin Huys
11:20	12:10	Autism	Helene Haker-Rössler
12:10	14:10	Lunch	
14:10	15:00	Schizophrenia	Stefan Kaiser
15:00	15:50	Computational approaches to help understand psychiatric disorders.	Joshua Gordon
15:50	16:20	Break	
16:20	17:20	Panel Discussion: Open Questions in Psychiatry	Lead: Martin Paulus
17:30	19:30	Sight seeing tour through Zurich (2h)	

TUESDAY, 29.08.2017

BAYESIAN INFERENCE  
& MACHINE LEARNING

8:30	8:45	Introduction to Day 2	
8:45	9:20	Modeling Basics	Klaas Enno Stephan
9:20	10:30	Bayes Models for Perception	Frederike Petzschner
10:30	11:00	Break	
11:00	12:30	Hierarchical Bayesian Inference (Theory & Software)	Christoph Mathys
12:30	14:30	Lunch Lottery	
14:30	16:00	Predictive Coding (Theory & Software)	Lilian Weber
16:00	16:30	Break	
16:30	18:00	Machine Learning Techniques (Theory & Software)	Andre Marquand

# SCHEDULE

CPC 2017

WEDNESDAY, 30.08.2017

DECISION-MAKING  
PLANNING &

8:30	8:45	Introduction to Day 3	
8:45	10:15	Markov Decision Processes (Theory & Software)	Frederike Petzschnr & Lionel Rigoux
10:15	10:45	Break	
10:45	12:15	Reinforcement Learning (Theory & Software)	Woo-Young Ahn
12:15	14:15	Lunch	
14:15	15:45	Active Inference (Theory & Software)	Philipp Schwartenbeck
15:45	16:15	Break	
16:15	17:45	Drift-Diffusion Model	Rafal Bogacz

THURSDAY, 31.08.2017

8:30	8:45	Introduction to Day 4	
8:45	10:15	DCM for fMRI (Theory & Software)	Jakob Heinzle & Hanneke den Ouden
10:15	10:45	Break	
10:45	12:15	DCM for EEG (Theory & Software)	Dario Schöbi & Andreea Diaconescu
12:15	14:15	Lunch Lottery	
14:15	15:45	Bayesian Model Selection and Averaging (Theory & Software)	Stefan Frässle & Saeed Paliwal
15:45	16:15	Break	
16:15	17:45	Model inversion: Markov Chain Monte Carlo and Variational Bayes	Lionel Rigoux

BIOPHYSICAL MODELS  
& MODEL TOOLS

FRIDAY, 01.09.2017

8:30	8:45	Klaas Enno Stephan
8:45	9:35	Xiaosi Gu
9:35	10:05	Break
10:05	10:55	Roshan Cools
10:55	11:55	Panel Discussion
11:55	14:00	Lunch
14:00	14:50	Michael Frank
14:50	15:40	Peter Dayan
15:40	16:10	Break
16:10	17:00	Karl Friston

MODEL APPLICATION