Symposium on Bayesian Modeling of Motivated Behavior

Program

DAY ONE

Coffee and Croissants

8:30 - 10:30   Session 1   *Introduction: Cognitive models to understand the brain*

Coffee break

11:00 - 12:30 Session 2   *Model exploration and model fitting I: How to fit models with Matlab*

Lunch break

13:30 - 15:00 Session 3   *Model exploration and model fitting II: How and why to simulate data*
15:15 - 16:45 Session 4   *Bayesian reward learning and inference*

Coffee break

17:45 - 18:45 Session 5   *On the merits of generative models in task design, validation, analysis and mechanistic thinking*

DAY TWO

Coffee and Croissants

8:30 - 10:00   Session 1   *Why modelling assumptions matter*

Coffee break

10:30 - 12:30 Session 2   *Simple Bayesian methods of data analysis and hierarchical models using Stan I*

Lunch break

13:30 - 15:00 Session 3   *Simple Bayesian methods of data analysis and hierarchical models using Stan II*
15:00 - 16:30 Session 4   *Comparing models and groups*

Coffee break

17:00 - 18:30 Session 5   *Creating perceptual models (simple detection, multisensory)*

DAY THREE

Coffee and croissants

8:30 - 10:00   Session 1   *Jags as Bayesian alternative to SPSS*

Coffee break

10:30 - 12:30 Session 2   *Summary and final discuss: Is modeling and Bayes for everybody?*

Goodbye lunch

Dr. Jacqueline Scholl

She is a neuroscientist interested in understanding the psychological and neural mechanisms underlying motivated behavior. Specifically, how do humans learn what they value and how do they use this knowledge to make good decisions? She is furthermore interested in applying these concepts to understand psychiatric disorders, such as depression, and their treatments.

Dr. Nils Kolling

The primary aim of his research is the understanding of the neural mechanisms underlying reward-guided decision making, learning and exploration. He focuses particularly on the role of the frontal lobes of humans in generating choices based on rewards and other features of the environment.

Venue:
Conference room DZNE, Leipziger Straße 44, Haus 64
39120 Magdeburg