



The Adaptive Mind - General Meeting
Thu 14 – Fr 15 July, 2022
GCSC Building
Otto-Behaghel-Straße 12, 35394 Gießen

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Thursday, July 14th

Time

9:00 Young Pro event
–12:00

12:00 Reception (Sandwiches) and **Individual Project Meetings**

13:00 Welcome

Talk session: Adaptivity in Special Populations

Chair: Britta Hinneberg

13:20 Benjamin Straube & Tilo Kircher: *Current Developments in the Research Topic Mental Disorders*

13:50 Christoph Mulert: *Targeting the adaptive mind with tACS – From modulating perception towards new treatment options for patients*

14:20 Gudrun Schwarzer & Yee Lee Shing: *Cognitive and motor adaptation across the life span*

14:50 Coffee break and **Poster session** (List of posters below)
[presentation odd numbers: 14.40-16.10, even numbers: 16.10-17.40]

17:50 Commute to dinner

18:30 Dinner and **Discussions** at Bootshaus
Bootshausstraße 12, 35390 Gießen
<https://bootshaus-giessen.com/>



BootsHAUS

Friday, July 15th

Time

Talk session: Modelling Adaptivity

Chair: Danilo Kuhn

9:30 Constantin Rothkopf: *Inverse optimal control for continuous psychophysics*

10:00 Kristian Kersting: *Whittle Networks for Time Series Data*

10:30 Coffee Break and **Individual Project Meetings**

11:30 Dominik Endres: *Data Hub and Discussions*

12:30 Lunch Break and **Individual Project Meetings**

Talk session: Modelling Adaptivity

Chair: Anna-Lena Eckert

13:30 Roland Fleming: *Grasping*

14:00 Mathias Hegele: *Predictive Feedback*

14:30 Closing and optional time for **Individual Project Meetings**

14:30 Meeting of the TAM Director's Board
–16:00

Poster session

[odd numbers: 14.50-16.20, even numbers: 16.20-17.50]

1. Alexander Schütz: *Are smooth pursuit deficits in schizophrenia the consequence of dysfunctional adaptation?*
2. Constantin Rothkopf: *Inferring implicit sensorimotor costs by inverse optimal control with signal dependent noise*
3. Katja Dörschner-Boyaci: *Wiggle it a little bit - Active exploration and the visual perception of form and rigidity*
4. Lea Junge-Bornholt: *Outcome prediction of basketball free throws based on kinematic data at ball release*
5. Stefan Roth: *Fast axiomatic attribution for neural networks*
6. Andrea Hermann: *Neural correlates of context-dependent fear and extinction generalization*
7. Andrea Hermann: *Core Set Clinical Scales and Experiments*
8. Benedikt Kretzmeier: *(Not) learning rational temporal eye and head movement strategies*
9. Hamidreza Jamalabadi: *Attractor dynamics of psychotherapeutic interventions*
10. Mareike Grotheer: *Spatiotemporal differences in preterm infants' bundles are linked to slower ex utero myelination*
11. Adrian Wroblewski: *Fear extinction and the prediction of treatment response*
12. Anna Schröger: *Eye-finger coordination when playing a computer game (Pong)*
13. Anna Lena Eckert: *A Bayesian causal inference perspective on motor suppression*
14. Katherine Storrs: *Learning static and motion cues to material by predicting moving surfaces*
15. Lisa Lin: *Active explorations in visual material perception*
17. Lukas Kirchner: *Active inference of social contexts in depression*
19. Zirong Qian: *Fear protocolized, but why: evaluation of expected and experienced fear curve during exposure*
20. Yunbo Yang: *Neural plasticity of the amygdala: does psychotherapy for anxiety disorders modulate amygdala responsiveness to fearful stimuli?*
21. Raphael Schween: *Inverse optimal control of human balance adaptations to postural threat*
22. Abir Chowdhury: *Understanding trial-to-trial variability in juggling*
23. Danilo Kuhn: *Task Influence on Visual Search and Action Planning in a Foraging Task*
24. Christina Schmitter: *The cerebellum and action outcome delay adaptation: A tDCS study*
25. Thomas S. Hartmann: *AVLnet and gesture-speech matching*
26. Francisco López-Guzmán: *MIMo: A Multi-Modal Infant Model for Studying Cognitive Development in Humans and AIs*
27. Aylin Kallmayer: *Making a Scene: Investigating Generated Scene Information at Different Visual Processing Stages*
28. Marcel Linka: *Exploring the diagnostic potential of a 3 minute free viewing task*
29. Hauke Niehaus: *Modeling aberrant volatility estimates associated with the Autism Spectrum Disorder*