



The Adaptive Mind - General Meeting
Wed 15 March, 2023
GCSC Building
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Wednesday, March 15th

Time

9:00 **Welcome** (Roland Fleming)

Opening Lecture

Chair: Constantin Rothkopf

9.15 Angela Yu: *Computational models for visual perception*

Talk session: Adaptivity in Perception and Action

Chair: Danilo Kuhn

10:15 Jochen Triesch: *Modeling the origins of human object perception*

10:45 *Coffee Break*

11:00 Loes van Dam: *Control confusion as an implicit measure for agency*

- 11:30 Mareike Grotheer: *Spatiotemporal characterization of the math and reading networks*
- 12.00 Ortrun Brand: *Introducing the new Data Hub Policy*
- 12:15 *Lunch Break* and **Poster session** (find list below)

Talk session: Adaptivity in Special Populations

Chair: Britta Hinneberg

- 15:00 Andrea Hermann: *TRANSdiagnostic Research into Emotional Disorders and Cognitive Behavioral Therapy of the Adaptive Mind (TRANSTAM)*
- 15:30 Ben de Haas: *A Free View into the Adaptive Mind*
- 16:00 *Coffee Break*
- 16:15 David Engel: *Visuomotor Processing in Parkinson's Disease*
- 16:45 Anna-Lena Eckert: *Perceptual mechanisms across the autism- & psychosis spectra (PerM-Aps)*
- 17:15 *Closing*
- 17:30 Meeting of the TAM Director's Board
- 18:30

Poster session

1. Baltaretu, Schuetz, Vö, & Fiehler: *Scene Grammar Modulations for Spatial Coding in Naturalistic Environments*
2. Caziot, Kaminiarz, & Bremmer: *Retinal optic flow in freely moving non-human primates*
3. Chowdhury, Maurer, Maurer, & Müller: *Understanding the role of functional variability in juggling*
4. Eckert, Endres, Fiehler, Voudouris, & Führer: *A Bayesian ideal-observer perspective on movement-related sensory attenuation of predictable stimuli*
5. Eckert, Pawlowski, Endres, Rief, & Kirchner: *Simulating Social Decision-Making in Depression and Anxiety*
6. Eicke-Kanani, Duan, Schmitter, Tatai, Streiling, van Dam, Rothkopf, Straube, & Wallis: *Noisy Newtons for launching events: quantifying sensory and decisional sources of uncertainty in perceptual causality judgments*
7. Falck, Fassbender, Schwarzer, & Shing: *Cognitive and Motor Adaptation Across the Lifespan (TAM-LIFE)*
8. Falck, Straube, Schwarzer, & Shing: *Cognitive Adaptation in Clinical and Typically Developing Groups during Childhood and Adolescence (TAM-LICA)*
9. Faßbender, Falck, Jovanovic, López, Shing, Triesch, & Schwarzer: *Motor Adaptation in a Daily-Based Force Adaptation Task in Early Childhood and a Simulated Embodied Infant Model*
10. Hartmann, Çelik, Kühne, Roig, Riedl, He, & Straube: *Speech-Gesture Matching*
11. Höhne, Stroth, Kuhn, Schubö, Dörschner-Boyaci, Boyaci, Goettker, Gegenfurtner, & Kamp-Becker: *Predictive Processes in ASD*
12. Kaiser, Nara, & Kircher: *Clinical alterations in the visual encoding of faces*
13. Kallmayer, Kaiser, Storrs, Fleming & Vö: *What makes a scene? Investigating generated scene content across visual processing stages*
14. Kircher, Schmitter, He, Ar Rashid, Engel, van Kemenade, Eckert, Rothkopf, Wallis, van Dam, Hegele, Müller, Maurer, Bremmer, Fiehler, Schütz, Mulert, Jamalabadi, Endres, & Straube: *RT Agency: Agency and schizophrenia*
15. Kirchner & Rief: *Processing Social Expectation Violations: Differences in Cognitive Immunization between Depressed and Non-Depressed Individuals*
16. Kretzmeyer, McManus, Rothkopf, & Fiehler: *Sensorimotor Planning, Adaptation and Learning while Navigating (Un)predictable Virtual Environments*
17. Kuhn, Schubö, Kamp-Becker, Dörschner-Boyaci, Boyaci, Stroth, Goettker, Gegenfurtner, & Höhne: *Predictive Processes in ASD*
18. Kuhn, Tünnermann, & Schubö: *Action Context Shapes Attentional Selection in Multiple-Object Selection*
19. Lin, Belousov, Kshirsagar, Schneider, Peters, Drawing, & Dörschner-Boyaci: *Exploring The Unseen: Task-Adapted Active Explorations in Humans and Robots*
20. López, Massmann, Shi, & Triesch: *A computational model of accommodation control exploiting chromatic aberration*

21. McManus, Schütz, Voudouris, & Fiehler: *How visuomotor predictability affects tactile sensitivity*
22. Meibodi, Straube, Eckert, Rothkopf, Hofmann, Ridderbusch, Kircher, & Endres: *Processing speed and adaptive behavior in mental disorders*
23. Meißner, Klever, Goettker, Vö, & Billino: *Aging attenuates the memory advantage for schema incongruent objects embedded in real-world scenes*
24. Neudert, Hermann, Kruse, Schäfer, Jengert-Stahl, Martin, de Haas, Rothkopf, Straube, Toscani, Stark, & the TRANSTAM team: *Fear out of context? Neural correlates of context-dependent fear conditioning, generalization and extinction and its relevance for intrusive symptoms*
25. Ovsepián, Souto, & Schütz: *Reafference signal adaptation*
26. Qian, Akbarinia, Rothkopf, Kersting, Rief, Kircher, Straube, Yang et al. : *Going beyond traditional self-reports by considering drawing of fear trajectories in exposure therapy*
27. Schmitter, Rothkopf, Endres, Eckert, Tatai, Streiling, Eicke-Kanani, Wallis, van Dam, Jamalabadi, Schütz, van Kemenade, Fiehler, Kircher, & Straube: *Sensorimotor delays in action-perception-coupling*
28. Schröger & Gegenfurtner: *Predictive eye movements in pong game*
29. Schween, Kshirsagar, Engel, Tateo, Al-Hafez, Sun, Xu, Benke, Pané-Farré, Reimann, Peters, Bremmer, & Endres: *Characterizing fear-induced effects on balance by inverse optimal feedback control*
30. Straube, Rothkopf, Hermann, Stark, Rief, Hofmann, Ridderbusch, Yang, & Kircher: *RT Learning: Learning dynamics and anxiety*
31. Streiling, Straube, Schmitter, Wallis, Eicke-Kanani, & van Dam: *Trial history effects on causality perception in Schizophrenia*
32. Stroth, Höhne, Langmann, Kamp-Becker, Becker, Linka, de Haas, & Billino: *Gaze patterns in Autism and ADHD*
33. Tasliyurt-Celebi, de Haas, Vö, & Dobs: *Scene previews facilitate face detection behavior*
34. Vö, Stroth, David, Spur, Höhne, & Kamp-Becker: *Scene grammar violations and the role of predictions in ASD*
35. Wagner & Schütz: *Contextual effects on the dynamics of saccade adaptation*