SFB 1315
Mechanisms and Disturbances in Memory Consolidation:
From synapses to systems

Tuesday

MAY 13, 2025
4:00 pm

BCCN Lecture Hall
Philippstraße 13/Haus 6
10115 Berlin
Meeting-ID: 775 491 0236
SFB1315.ifb@hu-berlin.de

SFB 1315 LECTURE SERIES 2025

INTEGRATION FROM TRAINED TO NATURAL BEHAVIORS

AHMED EL HADY

Group Leader, Integrative Biophysics
Center for Advanced Study of Collective Behavior
Universität Konstanz &
Affiliated Scientist, Max Planck Institute of Animal Behavior
Department of Collective Behavior
Konstanz, Germany

Funded by
DFG Deutsche Forschungsgemeinschaft
German Research Foundation

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INTEGRATION FROM TRAINED TO NATURAL BEHAVIORS

To survive in an uncertain and dynamic environment, animals need to integrate the relevant information in their environment.

Systems neuroscientists have conventionally simplified and made this problem more tractable by studying trained behaviors where they train animals to integrate sensory evidence. This idealization has allowed neuroscientific investigation into neural mechanisms underlying integration.

In my talk, I will present theoretical work showing that integration, as a behavioral computation, can be extended from the realm of trained behaviors to (social) foraging behaviors performed by animals naturally thus bridging a much needed gap between mechanistic models in systems neuroscience and behavioural ecology. This modeling approach opens up the opportunity to quantitatively study neural mechanisms of naturalistic decision making.

About the speaker:

Ahmed El Hady is a principal investigator and research scientist at the center for advanced study of collective behavior (Uni Konstanz). He is a neuroscientist who worked on a variety of problems from the biophysics of the action potential, the collective behavior of neuronal networks to the neural mechanisms underlying decision making in rats. His current research interests revolve around formal theories of social foraging across species and the implementation of large scale foraging experiments with rodents in the newly built imaging hangar at the University of Konstanz.
(Source, ab.mpi)

Social:
twitter: @zamakany

This invited talk is hosted by SFB1315 PI Livia de Hoz.

Certificate of attendance:
Please contact team assistant
serenella.brinati.1(at)hu-berlin.de

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