

iNAV 2024 Data Blitz Talks

Session of presenting	Name of presenting author	Talk Title
Session 1, June 18	Alexander Eperon	Navigating memory: neural and ocular representation of movement in a conceptual space
Session 1, June 18	Sen Cheng	A neural network model that learns to encode and retrieve memories for spatial navigation
Session 1, June 18	Mike Starrett Ambrose	Egocentric and allocentric relational processing in the human brain
Session 1, June 18	Lara Gregorians	Moving through architectural spaces involves spatial and aesthetic processing
Session 1, June 18	Dori Derdikman	Opposite effects of glutamatergic and dopaminergic cells of the VTA on representational drift in the hippocampus
Session 1, June 18	Michael Bukwich	Navigating an impossible geometry in virtual space
Session 1, June 18	Matthias Stangl	Spatial representations for self and others in the medial temporal lobe of freely-moving humans
Session 1, June 18	Shahriar Hosseinjany	Spatial Encoding Precision: Unveiling Retrosplenial cortex and Hippocampal Formation Neural Components
Session 1, June 18	Pearl Saldanha	NEURAL CODING OF SPACE AND GOALS: DYNAMICS OF EGOCENTRIC BOUNDARY TUNING DURING BAIT-CHASING
Session 1, June 18	Yunzhe Liu	Hippocampal ripples reflect prediction error in a valence dependent way
Session 1, June 18	Jennifer Li	Uncovering spatial cognitive maps in zebrafish using brain-wide imaging in freely moving animals
Session 2, June 19	Laurenz Muessig	Functional development of the grid cell network in the entorhinal cortex
Session 2, June 19	Jasmin L. Walter	Visual behavior during spatial exploration in VR explains individual differences in spatial navigation task performance using a graph-theoretical modeling approach of eye tracking data
Session 2, June 19	Hye-A Kim	The Nucleus Reunions Drives Hippocampal Goal-Directed Trajectory Sequences for Route Planning
Session 2, June 19	Veronica Muffato	Exploration behavior and cognitive map: The key point of spatial individual differences
Session 2, June 19	Kim Nguyen	Neural coding of episodic and spatial representations in development
Session 2, June 19	Benjamin Pitt	Spatial reference frames across axes, ages, and cultures
Session 2, June 19	Xhensjana ZENELAJ	A Brainstem Nucleus Linking the Cerebellum to the Hippocampus
Session 2, June 19	Xiuting Yang	Visual boundary cues suffice to anchor place and grid cells in virtual reality
Session 2, June 19	Deetje Iggena	The temporal dynamics of spatial representations – The consolidation of long-term spatial memories of the real world.
Session 2, June 19	Yadurshana Sivashankar	The Necessity of Motoric Engagement in Enhancing Route Memory
Session 2, June 19	Martin Seeber	Comparative neural dynamics of real-world and imagined navigation
Session 2, June 19	Maria Kozhevnikov	Immersive Virtual Reality-Based Perspective Taking: Design and Validation of a Diagnostic Tool to Assess Spatial Navigation Abilities
Session 2, June 19	Michal Gabay	The Effect of Level of Immersion and Locomotion of the Virtual Reality Modality on Spatial Learning Strategy Usage, Performance, and Experience Measures
Session 3, June 21	Reisner Volker	Locomotion-dependent effects of environmental geometry on human spatial memory in volumetric space
Session 3, June 21	Alison Montagrin	Hippocampal timestamp for goals
Session 3, June 21	Desdemona Fricker	Directionally tuned signals in mouse subicular complex and in visual cortex during passive rotation using high-density probes
Session 3, June 21	Misun Kim	An experiment design to isolate spatial updating processes in stationary human brains
Session 3, June 21	Clément Naveilhan	Spatial contextual information modulates affordance processing and early electrophysiological markers of scene perception
Session 3, June 21	Sophia Rekers	Spatial navigation in clinical practice—Diagnostics and treatment in patients with severe cognitive impairment
Session 3, June 21	Jerome Beetz	Bees learn local cues differently than distal panorama cues in a spatial memory task
Session 3, June 21	Xiaoli Chen	Untangling Cue Conflicts: Understanding Spatial Cue Interaction in Navigation through the Bayesian Causal Inference Approach
Session 3, June 21	Pascal Malkemper	Towards the neural basis of the magnetic sense in subterranean mole-rats: behavior and recordings
Session 3, June 21	Elena Aggus Vella	Egocentric navigation network plasticity: training extends functional connectivity of V6 to frontal areas of congenitally blind people.
Session 3, June 21	Nofar Yarimi	Degraded vision leads to impaired spatial memory and neural representations of space
Session 3, June 21	Ilan Vol	Individual differences in navigating around augmented vs. real obstacles
Session 3, June 21	Emre Yavuz	Using Minecraft to elucidate the Neurobiological Mechanisms underlying Human Hunting Behaviour
Session 3, June 21	Coco Newton	Spatial navigation metrics differentiating preclinical and prodromal Alzheimer's disease: a systematic review
Session 3, June 21	Ruma Chatterji	Home Vector Degrades Over Short Time Scales during Path Integration in the Fiddler Crab, <i>Leptuca pugilator</i>