

COBRA Workshop Program

Friday, 4 September | Room 318

09:30 – 09:35	Opening
09:35 – 10:10	Annalisa Caligiuri <i>Presentation (25 min. + 10 min. discussion)</i> Topic: Orbital stability and predictability of functional brain networks in healthy aging, Parkinson's disease, and Alzheimer's disease. Building on her paper: "Predictability of temporal network dynamics in normal ageing and brain pathology" (Caligiuri et al., J. Complex Networks, 2026, doi: 10.1093/comnet/cnaf058).
10:10 – 10:45	Michelle T. Cirunay <i>Presentation (25 min. + 10 min. discussion)</i> Topic: Sandpile/avalanche model with Hebbian learning on hierarchical modular networks, reproducing power-law and log-normal distributions in real connectomes. Building on her paper: "Learning and criticality in a self-organizing model of connectome growth" (Cirunay et al., Scientific Reports, 2025, doi: 10.1038/s41598-025-16377-8).
10:45 – 10:55	Break
10:55 – 11:30	Filip Novický <i>Presentation (25 min. + 10 min. discussion)</i> Topic: Uncovering the spatiotemporal structure of neural avalanches through optimal transport and dynamic time warping.