Computational Neuroscience and Biophysics

Research

Yoram Burak's research group investigates how neural circuits in the brain perform computations, such as: sensory inference, maintenance of short-term memory, and generation of motor output. To address these questions, we apply diverse theoretical tools from statistical mechanics, information theory, and the theory of nonlinear dynamics. We are interested also in computation and information processing in other biological systems, and in their relationship to physical organization and dynamics.

The lab is part of ELSC [1] and the Racah Institute of Physics [2].

Join our lab [3]! Where to find us [4]

UPCOMING EVENTS

Learn more about our exciting upcoming events!

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Studying at ELSC

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

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The Building

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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