

theory @ janelia

Hermundstad lab

postdocs wanted!

Our goal is to understand dynamic, adaptive strategies for representing sensorimotor information that can be used to support efficient circuit computations and ultimately guide flexible behavior. We integrate approaches from efficient coding, Bayesian inference, reinforcement learning, network theory, and dynamical systems. Examples:

normative theories
of adaptive coding
in nonstationary environments

strategies for
flexible learning
from sparse samples

principles of dynamic
stimulus selection in
recurrent circuits

model-based analyses
of exploratory and
goal-driven behaviors

We strive for a tight loop between theory and experiment at Janelia. Come join us!

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ⓘ janelia.org/lab/hermundstad-lab