Computational Visual Neuroscience
Goris Lab

Visual input

Receptor 1

time

future

Receptor 2
Receptor 3
Receptor N

Retina V1   V2   V4

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$$\left[\mathcal{I}(\boldsymbol{\lambda}) \right]_{i,j} = \mathrm{E}_{\boldsymbol{n}} \left[\frac{\partial}{\partial \lambda_i} \log \mathbb{P}(\boldsymbol{n}|\boldsymbol{\lambda}, \boldsymbol{\Sigma}) \frac{\partial}{\partial \lambda_j} \log \mathbb{P}(\boldsymbol{n}|\boldsymbol{\lambda}, \boldsymbol{\Sigma}) \right]$$

Perception

Neuron 1

time

prediction

Neuron 2
Neuron 3
Neuron N
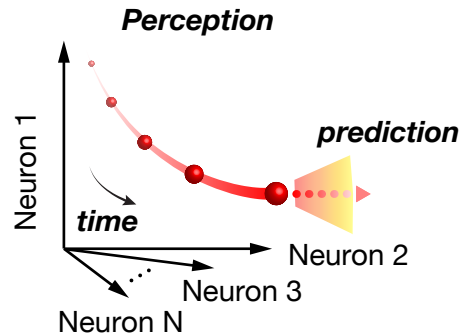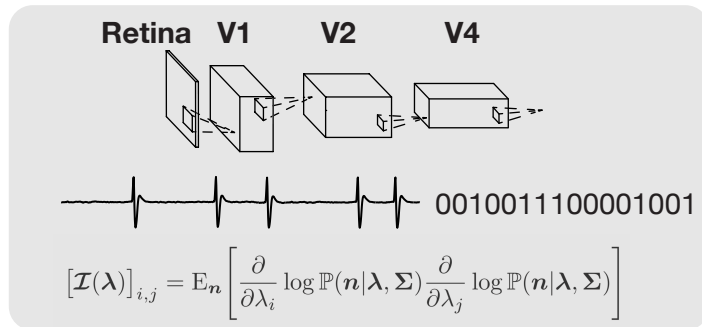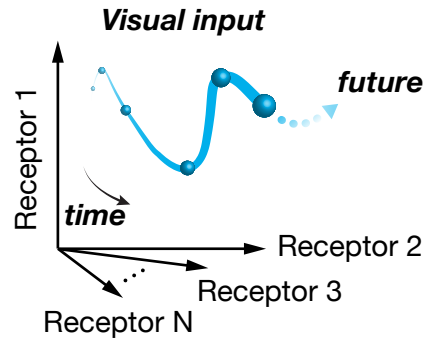
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