

Laurent U. Perrinet

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Research interests

I am interested in bridging the gap between the structure and the function of neural systems by showing how they optimally adapt to the statistics of natural environments.

Areas of specialization

Spatio-temporal inference in low-level sensory areas. Motion Perception. Free-energy and active perception.

Education

2014	HDR Aix-Marseille Université
1999-2003	PhD in Cognitive Neuroscience, ONERA/DTIM, Toulouse (France)
1993 - 1998	MSC in Engineering SUPAÉRO (Toulouse, France), one of the leading French Engineering Schools ("Grandes Ecoles"). Specialization in stochastic models for signal and image processing.

Selected publications

JOURNAL ARTICLES

2017	Mina A Khoei, Guillaume S Masson et Laurent U Perrinet. "The flash-lag effect as a motion-based predictive shift." PLoS Computational Biology .
2012	Karl Friston, Rick A. Adams, Laurent U. Perrinet and Michael Breakspear, "Perceptions as Hypotheses: Saccades as Experiments", Frontiers in Psychology .
2010	Laurent U. Perrinet, "Role of homeostasis in learning sparse representations", Neural Computation .
2004	Laurent U. Perrinet, Manuel Samuelides and Simon Thorpe, "Coding static natural images using spiking event times : do neurons cooperate?", IEEE Transactions on Neural Networks .

BOOK

2015	Gabriel Cristobal, Laurent U Perrinet et Matthias S Keil, editors. "Biologically Inspired Computer Vision." Wiley-VCH doi : 10.1002/9783527680863.
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