



PostDoc Positions

“Structure and dynamics of cortical networks”

Computational Neuroscience lab – Prof. Stefan Rotter

Our goal is to understand the interplay between network topology and spiking activity dynamics in the neocortex and other parts of the mammalian brain, and to explore the possibilities and constraints of dynamical brain function. Our main tools are mathematical/numerical network modeling and statistical data analysis, often used side by side within the framework of stochastic point processes and statistical graph theory. In collaboration with physiologists and anatomists, we seek to develop new perspectives for the model-based analysis and interpretation of neuronal signals.

We are a young group of researchers from mathematics, physics, computer science and biology and invite applications to join the lab for a 2-3 year PostDoc project, and to enter the PostDoc program in Computational Neuroscience at the Bernstein Center Freiburg.

The Bernstein Center Freiburg concentrates research in Computational Neuroscience and Neurotechnology at the University of Freiburg, Germany. The projects are highly interdisciplinary and span from mathematical-theoretical approaches on the function and dynamics of neuronal networks over neuroanatomy and experimentally driven neurophysiology up to the development of technologies for medical application.

Further details on:

www.bcf.uni-freiburg.de/jobs

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