

Open PhD & postdoc position in Computational Systems Neuroscience, University of Cologne (Nawrot Lab)

We offer several positions in computational neuroscience at the PhD and postdoc level. We seek candidates that will develop computational and/or statistical models of nervous system function including candidates that have an interest in brain-inspired models of behavior that can inspire artificial intelligence and neuromorphic computing.

Four positions are related to the following projects

- models of **primate motor control**, in particular movement initiation and sensory-motor integration within the Collaborative Research Center *Motor Control in Health and Disease* (DFG-CRC 1451, <https://www.crc1451.uni-koeln.de/>). This project involves a tight collaboration with an experimental primate lab (<https://elsc.huji.ac.il/people-directory/faculty-members/yifat-prut/>) and is part of a consortium that spans from basic to clinical research.
- models of **learning, memory and behavioral control** in insects within the Research Unit *Dissection of a Brain Circuit: Structure, Plasticity and Behavioral Function of the Drosophila Mushroom Body* (DFG-FOR 2705, <https://www.uni-goettingen.de/en/601524.html>) and involves tight collaborations with experimental partner labs.
- models of **temperature encoding in homeostatic energy regulation**. This project involves the collaboration with two experimental labs with expertise in electrophysiology and molecular neuroscience at the University of Cologne and the Max Planck Institute for Metabolic Research.

An additional **senior postdoc position** will be opened soon and interested candidates are encouraged to contact Martin Nawrot.

Our international team is multidisciplinary with postdocs and PhD students from various backgrounds including physics, computer science, engineering, biology and psychology. Our institute is situated on campus close to the city center. The University of Cologne has a very strong Neuroscience community ranging from basic to translational and clinical neuroscience and Neuroscience is one of the priority research areas, both at the University and the University Clinics. We strongly encourage training opportunities for students and postdocs as well as academic travel to international workshops and conferences.

Contact:

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