

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

March 18, 2022

We have open positions in computational neuroscience at postdoc and PhD 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.

Three positions are related to the following projects:

1. **PhD OR Postdoc position:** 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.
2. **Postdoc position:** models of **memory formation, decision making and behavioral control (artificial agents)** 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>). This is a vibrant collaborative community and the theoretical work involves collaborations with experimental partner labs.
3. Postdoc position: models of **reward prediction and higher forms of learning** in insects in an international collaboration with the labs from Arizona, Paris, Cologne and Magdeburg.

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.

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