

Open position for a PhD student with **Prof. Laurenz Wiskott**
at the Institute for Neural Computation, Bochum, Germany

University:

The Ruhr-Universität Bochum is one of the leading research universities. The university draws its strengths from both the diversity and the proximity of scientific and engineering disciplines on a single, coherent campus. This highly dynamic setting enables students and researchers to work across traditional boundaries of academic subjects and faculties.

Institute:

Institute for Neural Computation
Ruhr-University Bochum
Universitätsstr. 150
D-44801 Bochum, Germany, EU

The Institute for Neural Computation is a central research institute at the Ruhr-University Bochum, see <https://www.ini.rub.de/>. It focuses on the dynamics and learning of perception and behavior on a functional level but is otherwise very diverse, ranging from neurophysiology and psychophysics over computational neuroscience to machine learning and technical applications.

Research group:

Prof. Dr. Laurenz Wiskott, see https://www.ini.rub.de/research/groups/theory_of_neural_systems/

Research topics:

We are looking for an outstanding candidate who will be working on a system-level model of spatial navigation with the hippocampus as one of its central areas. We use methods from neural networks and machine learning. It is also planned to simulate experiments done with rat and/or mice by our experimental partners.

The position is part of a joint team with Prof. Sen Cheng working on developing a system-level model of hippocampal function for memory and navigation. This is being done in close interaction with a team working on similar questions from the machine learning perspective.

Teaching:

There is a teaching load of 3 hours per week during the semester, in particular for a programming course in python.

Time:

The appointment will be for three years and can then be extended for one more year if needed. The position is immediately available.

Requirements:

Candidates should have an education (equivalent to a MSc) in computer science, physics, mathematics, electrical engineering or any related field. Required are strong mathematical and programming skills (ideally in python) as well as the ability to communicate and work well in a team.

Salary:

Salary is 75% of salary scale TV-L E13.

Inquiries:

Informal inquiries can be addressed to Prof. Laurenz Wiskott [<laurenz.wiskott@rub.de>](mailto:laurenz.wiskott@rub.de).

Application:

Applications (CV, transcript of records for MSc and BSc, statement of purpose) should be sent as a single pdf file to Prof. Laurenz Wiskott [<laurenz.wiskott@rub.de>](mailto:laurenz.wiskott@rub.de).

Ruhr-University Bochum is committed to equal opportunity in employment and gender equality in its working environment. We therefore look forward to applications from qualified women. Applications from appropriately qualified handicapped persons are also encouraged.