

Open PhD and Postdoc position in Tchumatchenko lab

The Tchumatchenko Group is seeking PhD and Postdoc candidates to conduct research in the field of computational neuroscience. The group is one of the vibrant computational neuroscience in Germany and Europe and obtained competitive third party funding from the German Research Foundation and other funding schemes.

The PhD candidate will be involved in a computational project which will be conducted in collaboration with the lab of Dr. Marcel Oberlaender at the Caesar Institute. This project will address how pyramidal neurons encode tactile information and will involve data analysis as well as recurrent network simulations in order to understand how spiking activity in the barrel cortex implements texture encoding.

The Postdoc candidate will be involved in a research project addressing recurrent spiking networks with multi-spike plasticity rules and protein dynamics.

Both projects are focused on computational tools and include pen-and-paper calculations, data analysis, and numerical simulations and require an interdisciplinary mindset.

The ideal candidates are highly motivated, team-oriented graduates with a degree in life sciences, Physics, Mathematics, Biology, Engineering or similar disciplines with a strong interest in computational neuroscience. Prior experience with computational modelling techniques or neuroscience is advantageous, but not a strict requirement.

Candidates should hold a diploma or a master's degree (a PhD degree is required for the Postdoc position) and be enthusiastic about working in a competitive interdisciplinary research team. Good communication skills, a strong work ethic, excellent command of the English language are essential as well as the ability to work remotely during a pandemic and the willingness to travel to visit experimental collaborators as well as national and international conferences (whenever corona regulations allow). Qualified female candidates are particularly encouraged to apply. The salary will be according to the German public employee salary scale, start date negotiable.

Please send your application with a cover letter, a CV with contact details from two references and copies of all relevant degree certificates to tatjana.tchumatchenko@uni-bonn.de. We are looking forward to your application! www.tchumatchenko.de