



### Postdoc position in neuroscience

#### - Neuronal mechanisms of cortico-subcortical communication in the mammalian brain –

Heidelberg University has a leading position among universities in Germany as well as internationally: In all three of the major international rankings, Heidelberg University is among the top three of German universities and twice among the top 50 universities in the world.

The Heidelberg neuroscience community is exceptional, hosting two Collaborative Research Centers in Neuroscience (SFB 1134 & SFB 1158) and is embedded in a large number of biomedical research institutes, clinics, and physics institutes with lively interactions across the campus.

**Description:** Our lab studies the structure and function of neuronal circuits in the rodent brain that mediate the transformation of sensory signals into (motor) behavior. We are particularly interested in how the cortex communicates with subcortical target networks via long-range pathways that link sensory processing and behavior. We use an array of electrophysiological, optogenetic, and behavioral techniques as well as advanced data analysis and modeling.

**Your profile:** Ph.D. / Dr. / MD degree, experiences in recording neurophysiological and /or behavioral data. Experiences in data analysis and programming (e.g. MATLAB/Python/R) are strongly desired.

**Suggested format:** If you fulfil the profile above, please submit you application as a single PDF via email to [groh@uni-heidelberg.de](mailto:groh@uni-heidelberg.de). The application should include the following documents:

1. A cover letter (max 1 page) that includes the main motivation for doing a Postdoc in the Neuronal Circuit Physiology group.
2. Contact details of 3 referees.
3. A CV outlining education, research experience, and publications.
4. Academic transcripts (bachelor, masters/diploma, Ph.D.).
5. A personal research statement (~1 page) that covers your research project interests, future research and career goals.

For related publications, please see [https://www.researchgate.net/profile/Alexander\\_Groh](https://www.researchgate.net/profile/Alexander_Groh)