



The **Olfactory Memory Research Group** at the Max Planck Institute of Neurobiology (<https://www.neuro.mpg.de/frank>) is looking for a **PhD student** or **post-doctoral fellow** with expertise and/or a strong interest in systems neuroscience. The successful candidate will investigate the **distributed neuronal networks** involved in the control of **olfactory behaviors**. The candidate will study how the olfactory system processes and transforms sensory information to inform behavioral decisions, using a combination of quantitative behavioral assays, two-photon Ca^{2+} imaging, electrophysiology, and various types of manipulations (e.g. optogenetics, chemogenetics, genetic) in zebrafish.

Starting date is flexible, but ideally in winter 2021.

Olfaction plays critical roles in behaviors such as foraging, reproduction, and predator avoidance. However, how odors trigger and sustain engagement in such motivated behaviors is still incompletely understood. We study the neural mechanisms of odor-behavior transformations in **zebrafish**, a small vertebrate with important advantages for mechanistic analyses of circuit function and its relation to behavior. We offer a young, highly collaborative, and international research environment at one of Europe's leading institutions for neuroscience research.

Requirements:

Applicants should have completed a MSc or PhD degree (or equivalent) in neurosciences, biology, (neuro-) engineering, or other relevant disciplines. A solid foundation in programming skills in Python or Matlab is a strong plus, as is prior experience with the aforementioned techniques. Good command of the English language is mandatory.

If you are interested, please send your application (incl. motivation letter, full CV, and names of 1 to 2 references) to tfrank@neuro.mpg.de until **September 15**, 2021.

Contact details:

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