

Ph.D. Student Position in Systems Neuroscience

Medizinische Fakultät, Erlangen, Full time, Temporary employment: until 30.04.2029,
Bewerbungsschluss: 30.06.2026

Your Workplace

Institute of Physiology and Pathophysiology, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

Benefits: We Have a Lot To Offer

- Regular promotion to the next level and increase in salary pursuant to the collective bargaining agreement for the public service of the German Länder (TV-L) or remuneration pursuant to the Bavarian Public Servants Remuneration Act (BayBesG) plus an additional annual bonus
- 30 days annual leave at five working days per week with additional free days on December 24 and 31
- Flexible working hours and models and the possibility to take time off in lieu
- Occupational pension scheme and asset accumulation savings scheme
- Family-friendly environment with childcare options, also during school holidays

Your Tasks

The laboratory of Prof. A. Ponomarenko is seeking a doctoral student with a strong interest in the dynamics of neuronal circuits and behavior. A central research topic of our group is neural coding and dynamics underpinning cognitive control of learned and instinctive (innate) behaviors. Using *in vivo* electrophysiology, opto-, chemogenetics, and machine learning approaches we have previously shown that network oscillations organize neuronal signaling from the hippocampus, prefrontal cortex, and the lateral septum to and within the hypothalamus, and crucially contribute to the regulation of locomotion (Bender et al., 2015), food seeking (Carus-Cadavieco et al., 2017) and intake (Altafi et al., 2024), and behavioral transitions (Chen et al., 2024).

Your Profile

You hold a Master's (or equivalent) in neuroscience or a related field and are genuinely curious about neuronal dynamics and behavior. Prior experience with *in vivo* techniques, including animal behavior and computational data analysis, is highly beneficial. Motivation to acquire computer coding skills is required. You bring a constructive, problem-solving mindset to the project, are prepared for sustained and focused work, and value effective communication with

your team and supervisor.

Interessiert?

Die vollständige Stellenausschreibung sowie alle Infos zum Bewerbungsverfahren finden Sie hier:

