

# PhD Position on Neural Mechanisms of Tactile Memory & Virtual Haptics

Hertie Institute for Clinical Brain Research  
Tübingen, Germany

Are you fascinated by the question which neuronal mechanisms underlie the storage and retrieval of human somatosensory experiences? Do you wish to investigate the interaction between somatosensory and hippocampal circuits using fMRI and full-body virtual haptics technology in a leading laboratory on sensory processing?

Then, apply for the ERC-funded

## PhD Position (65%, m/f/x) on Neuronal Mechanisms of Human Tactile Memory & Virtual Haptics

The position will be situated at the [Hertie Institute for Clinical Brain Research](#) (HIH), an internationally leading institute that is part of the German University Excellence Initiative at the Eberhard Karls University Tübingen, Germany. The HIH, together with the Neurology Hospital, forms the Center of Neurology, which is dedicated to research, treatment, and teaching focused on the diseases and disorders of the human brain.

### About us

The position will be situated at the **Translational Imaging of Cortical Microstructure** Research Group lead by [Prof. Dr. Esther Kühn](#). We use a combination of multimodal high- and ultra-high field MRI and fMRI, VR and virtual haptics technology, computational modeling techniques and behavioral as well as clinical investigations to understand adaptive and maladaptive somatic circuits in the living human brain, and their modification. The position will be founded by the ERC Starting Grant „Body Memory“ that investigates the implications of negative body memories on mental health.

### Your Profile

- Excellent MSc degree in psychology, cognitive neuroscience or a related field
- Experience with fMRI or MRI analyses
- Strong analytical and problem-solving skills
- Team spirit and collaborative mindset
- Excellent English communication and writing skills

### We offer

- 3-years 65% contract
- Internationally top-ranked research environment in basic and clinical neuroscience
- Integration into [Graduate Training Centre of Neuroscience](#) (GTC)
- Support in fMRI analyses techniques including computational modelling (e.g., pRF modelling)
- No teaching obligations
- Access to 9.4T and 3T MRI scanning & full-body virtual haptics and VR equipment
- Possibility to present research results at international conferences (UK, USA, Canada)
- Active collaborations to the [German Center for Neurodegenerative Diseases](#) (DZNE), the [German Center for Mental Health](#) (DZP), and the [Max Planck Institute for Biological Cybernetics](#) (KYB) Tübingen

**Interested candidates are invited to send an application with their CV, a brief description of future research interests together with a list of 2 potential referees to:**

Prof. Dr. Esther Kühn

Translational Imaging of Cortical Microstructure

Otfried-Müller-Straße 27, 72076 Tübingen, Germany

E-Mail: [esther.kuehn@uni-tuebingen.de](mailto:esther.kuehn@uni-tuebingen.de)

**Please contact me if you have any questions on the position.**

**Application deadline: 01.04.2023**