



Technische Universität Berlin offers an open position:

## Research Associate (PostDoc) - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible

**Faculty IV - Institute of Software Engineering and Theoretical Computer Science / Field of Language and Communication**

**Reference number:** IV-684/24 (starting at 01/03/25 / for 2 years / closing date for applications 17/01/25)

### Working field:

- Project coordination of an ERC funded project and independent research on large language models and models for robust neurocognitive applications
- Developing a computational modeling framework of brain signals to understand how language is represented in the brain
- Modeling fMRI- and EEG-data using deep learning-based machine learning techniques ("large language models")
- Language related features will be extracted using computational linguistics and state-of-the-art Natural Language Processing tools

### Requirements:

- Successfully completed scientific university degree (Master, Diplom or equivalent) and doctorate in Computational Neuroscience or related fields (Computer Science, Computational (Psycho-) Linguistics, Psychology)
- Very good knowledge in acquisition and analysis of fMRI data, machine learning and Natural Language Processing
- Very good programming skills, preferably in Python
- Very good knowledge of the current literature on language processing in the human brain and in artificial neural networks
- Experience in publishing scientific papers and writing grant proposals for multidisciplinary research topics
- Good knowledge of German and/or English; willingness to acquire the respective missing language skills

\*Desirable:\*\*

- Experience with acquisition and analysis of EEG or MEG data

Please send your application with the usual documents **exclusively by e-mail** to Prof. Dr. Fatma Deniz at **deniz@tu-berlin.de**, quoting the **reference number**.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: [https://www.abt2-t.tu-berlin.de/menue/themen\\_a\\_z/datenschutzerklaerung/](https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/).

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities. Applications from people of all nationalities and with a migration background are very welcome.

Technische Universität Berlin - Die Präsidentin - Fakultät IV, Institut für Softwaretechnik und Theoretische Informatik, FG Language and Communication, Marchstr. 23, 10587 Berlin

The vacancy is also available on the internet at <https://www.personalabteilung.tu-berlin.de/menue/jobs/>

