Technische Universität Berlin offers an open position:

**Research Assistant - salary grade E13 TV-L Berliner Hochschulen**

under the reserve that funds are granted; part-time employment may be possible

scientific collaboration in the BMBF project “Emonymous”, possibility of extension

The majority of systems and services that are provided by computer science, electrical engineering and information technology finally are oriented on the needs of their human users. To successfully build such systems and services it is essential to investigate and understand users and their behavior when interacting with technology. From this, design principles for human-machine interfaces or classification systems can be derived and requirements for the underlying technologies can be defined.

The Quality and Usability Lab is part of TU Berlin’s Faculty IV and deals with the design and evaluation of human-machine interaction, in which aspects of human perception, technical systems and the design of interaction are the subject of our research. We focus on self-determined work in an interdisciplinary and international team; for this we offer open and flexible working conditions that promote scientific and personal exchange and are a prerequisite for excellent results.

**Fakultät IV - Elektrotechnik und Informatik - Quality and Usability Lab**

**Reference number:** IV-549/21 (starting at the earliest possible / for 2 years / closing date for applications 15/10/21)

**Working field:** Central is the creation and empirical research of the use of speech and language technology, which includes aspects of signal processing, machine learning, artificial intelligence and natural language processing. Specific tasks in the “Emonymous” funding project are aimed, for example, at researching and implementing anonymization in speech, while at the same time preserving emotions, speaker characteristics and intelligibility. Acoustic and linguistic (textual) content are often analyzed in multimodal models and have to be evaluated using perceptual listening tests (laboratory or crowd), e.g. in order to control speech synthesizer training. If desired and suitable, the publication and presentation of project and research results in scientific journals, at conferences and workshops can be aimed for.

The specific tasks include:

- Conception, construction and evaluation of speech processing systems as well as systems for speaker characterization and transformation (e.g. ASR, emotion, intelligibility, synthesis)
- Measurement, planning and optimization of quality and user experience of anonymization (Quality of Experience, User Experience)
- Planning and execution of user studies (laboratory, large scale crowds)
- Project communication and reporting
- Publication and presentation of project and research results in scientific journals, at conferences, and in workshops as well as standardization meetings of ITU-T

Professionally experienced employees from our team support you with self-motivated familiarization within the areas of responsibility. PhD thesis preparation is possible.

**Requirements:**

- Successfully completed scientific university degree (Master, Diplom or equivalent) in electrical engineering, computer engineering/science, informatics, media informatics, media technology, information systems (or an equivalent technical background)
- Ability to work independently in a team and good self-organization
- Very good programming knowledge in Python, Matlab or similar
- Good knowledge of machine learning, AI and / or NLP
- Good knowledge of digital signal processing, statistics, empirical data analysis
- Interest in carrying out experiments with human participants to determine quality and user experience
- Language skills: English fluent in writing and speaking, German communication secure
- Desire to work in an agile and lively international and interdisciplinary environment

Please send your application with the reference number and the usual documents (one file max. 5 MB) only via email to bewerbung@qu.tu-berlin.de.

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/ or quick access 214041.

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.

Technische Universität Berlin - Der Präsident -, Fakultät IV, Quality and Usability Lab, Prof. Dr.-Ing. Möller, Sekr. TEL 18, Ernst-Reuter-Platz 7, 10587 Berlin

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