**PhD positions for the BMBF project “Empathic Artificial Intelligence”**
as soon as possible

**(E13 TV-L, non-permanent positions)**

**Your Tasks**

The research project EKI aims to develop Empathic Artificial Intelligence, which enables systems to recognize and react to the affective state of a person. The project takes place within the research group “Multimodal Behavior Processing” (Jun.-Prof’n Dr. Hanna Drimalla). In our group, we analyze human interaction signals (e.g., facial expression, voice and gaze behavior) by combining machine learning with processing, computer vision and classical psychological paradigms. Mainly, we focus on three aspects, due to their importance for human well-being: the recognition of positive and negative affect, the measurement of stress and the analysis of social interaction patterns. For this mission, we are looking for two motivated researchers from the field of computer science. The PhD positions for the BMBF project “Empathic Artificial Intelligence” as soon as possible are announced. We offer structured supervision of the research work, direct feedback, a high degree of independence and collegial support in an interdisciplinary team. The EKI project enables exciting and varied activities in an innovative, interdisciplinary and socially relevant research area.

**Research activities (90 %):**

- application and further development of machine learning methods for detecting stress, emotions and interaction behavior
- application of computer vision, voice and gaze analysis in a multimodal approach and in combination with machine learning
- planning, conduct, and evaluation of empirical studies of stress resistance, emotion expression and social interaction
- analysis of behavioral data with classical statistical tests
- publication of the results in English journals and conference publications
- reporting and presenting progress and results to the organization and cooperation partners

**Your Profile**

**We expect**

- scientific/university degree in computer science, a computer science-related discipline (e.g. data science or cognitive science) or another field relevant to the project
- practical experience and theoretical knowledge in machine learning or statistics
- interest and passion for interdisciplinary research at the intersection of computer science and psychology
- very good programming skills (in particular Python)
- proficiency in English (oral and written)
- analytical skills and scientific mindset
- independent, self-reliant and dedicated style of work
- prior knowledge in one of the psychological application fields
- experience with the conceptualization or implementation of psychological experiments

**Remuneration**

Salary will be paid according to Remuneration level 13 of the Wages Agreement for Public Service in the Federal States (TV-L). As stipulated in § 4 (1) sentence 1 of the WissZeitVG (fixed-term employment), the contracts will end on November 30th, 2024. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of the contract may differ in individual cases. The employment is designed to encourage further academic qualification. In principle, the two full-time positions may be changed into part-time positions, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counseling, and prevention programmes. Bielefeld University places great importance on a work-family balance for all its employees.

**Application Procedure**

For full consideration, your application should be received via either post (see postal address below) or email (a single PDF document) sent to drimalla@techfak.uni-bielefeld.de as soon as possible. The third-party funder requires that at least 60 % of the doctoral students and postdocs in the project are women; for this reason, please indicate the gender (m/f/d). Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure.

Further information on Bielefeld University can be found on our homepage at [http://www.uni-bielefeld.de](http://www.uni-bielefeld.de). Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail.


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**Application**

The Center for Cognitive Interaction Technology (CITEC) offers two full-time positions for the BMBF project “Empathic Artificial Intelligence” as soon as possible. The project takes place within the research group “Multimodal Behavior Processing” (Jun.-Prof’n Dr. Hanna Drimalla). In our group, we analyze human interaction signals (e.g., facial expression, voice and gaze behavior) by combining machine learning with processing, computer vision and classical psychological paradigms. Mainly, we focus on three aspects, due to their importance for human well-being: the recognition of positive and negative affect, the measurement of stress and the analysis of social interaction patterns. For this mission, we are looking for two motivated researchers from the field of computer science. The PhD positions for the BMBF project “Empathic Artificial Intelligence” as soon as possible are announced. We offer structured supervision of the research work, direct feedback, a high degree of independence and collegial support in an interdisciplinary team. The EKI project enables exciting and varied activities in an innovative, interdisciplinary and socially relevant research area.

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