



PROJECT COORDINATOR (POSTDOC)

University Hospital Jena | Department for Psychiatry and Psychotherapy

German Center for Mental Health (C-I-R-C)

Project: CELL-O: DEVELOPMENT OF AN ADAPTIVE AND MENTAL HEALTH APPLICATION FOR INDIVIDUAL RECOGNITION OF STRESS FACTORS, CREATION OF PROGNOSSES AND DEVELOPMENT OF INTERVENTIONS

Participating institutions: University Hospital Jena; Saarland University; Fraunhofer Institute for Computer Graphics Research IGD; mHealth Pioneers GmbH

Funding: Funding by the Federal Ministry of Education and Research

Brief description of the project: The goal of the project is to develop an app-smart wearable system for stress management, which will be tested in several consecutive studies. The project partners bring together expertise from all related fields, including psychiatry and psychology, as well as machine learning and its applications in the medical domain.

Individual stressors/stress responses will be continuously identified and contextualized using real-time measurement of physiological data via wearables. Through an app, users provide information on whether their subjective perception of stress was positive or negative using a scale. The cooperative approach of humans and technology is based on the mutual influence of both approaches by integrating augmented intelligence (AI). In addition, biofeedback is to be available to users as a standalone tool in the app. The resulting forecasts from the interaction are intended to protect against health risks and encourage users to make changes as promptly and effectively as possible.

Place of work:

University Hospital Jena
Department for Psychiatry and Psychotherapy
German Center for Mental Health (C-I-R-C)
Prof. Dr. med. Martin Walter
<https://www.uniklinikum-jena.de/psychiatrie/Forschung/Arbeitsgruppen.html>
www.c-i-r-c.de
www.canlab.de

Requirements:

- Your main tasks will include data collection, analysis and processing as well as the associated exchange with the project partners.
- We expect you to collaborate with other partners within the project to administrate and manage the ongoing development of the App-Smart Wearable-Systems and initiate collaborative outreach activities.



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You should have:

- A PhD in computer and data science, engineering or in a related field.
- Creativity, problem-solving, strong communication and teamwork skills.
- Experience in biomedical signal processing.
- Experience in one or more of the following areas: data science, machine learning or machine learning infrastructure.
- Passion about techniques and solving challenging problems and interest in the medical domain, especially in psychology and psychiatry.
- Fluent in English.

This position is a full-time, grant-funded position. Schedule: 40 hours per week

Project duration: 31.01.2024

Review of applications will begin immediately with a desired start date as soon as possible.

The position is on the TV-L scale for public employees, with scales depending on age and experience.

Please contact us with a CV or for more information:

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