Call for Applications: Doctoral Thesis (Dr. med.)

**MONDY:** Can objective data collected through smartphones & wearables predict and differentiate the depressive status between healthy & depressed individuals?

**Background:** Digital health interventions for treating depression are quite comprehensive. In the earlier days of digital phenotyping, data capture was limited to mobile devices such as handheld computers or a combination of text message reminders and web-based surveys. However, with the advent of technology, smartphones and wearables have allowed for collecting much larger amounts of data, at relative convenience to the patient.

A systematic review is a great approach to document, critically evaluate, and summarize scientifically the research about digital tools providing real-time data assessing.

We are currently conducting a systematic review with the aim of providing an overview of studies on objectively measured data via apps, smartphones and wearable devices for longitudinal monitoring of patients with depression.

In parallel, we want to conduct another **Systematic Review** which will help to identify published literature containing interventions using/ comparing digital phenotyping/technologies in healthy vs. individuals with depression.

**Questions:**

1. Can automatically generated objective data collected from wearable devices & smartphones differentiate the symptoms/ states/ progress of depression among depressed vs healthy individuals with clinical diagnosis of depression?
2. Can automatically generated objective data collected from wearable devices & smartphones be used to predict depression among depressed vs healthy individuals with clinical diagnosis of depression?
3. How useful are the objective features collected through wearable devices & smartphones in terms of distinguishing depression?

**Data basis:** Open data source/ any suitable database

**Payment:** There is the possibility of combining the doctorate with a third-party funding contract in part-time for thematically related work.

**Location:** Depression Research Center of the German Depression Foundation located in the University Hospital of Frankfurt.

**When to start:** As early as possible.

**Time frame:** Preferably free semester (Gladly full-time during your study/ semester break, flexibly arrangeable).

Please send your application, stating the reference “**Dr. med. / MONDY**, to: bewerbung@deutsche-depressionshilfe.de

If you have any questions, please contact: rebeka.amin@deutsche-depressionshilfe.de

Incoming applications will be considered continuously until the work is awarded.

Information on the collection and processing of personal data of our applicants can be found under https://www.deutsche-depressionshilfe.de/stellenangebote/datenschutz-bewerbungen