

At the Department of Medical Informatics - mHealth Division - of the Uniklinik RWTH Aachen currently we are actively looking for a

## M.D. Thesis Student

### Detection of epileptic seizures without EEG

Epileptic seizures are detected clinically using an Electroencephalogram (EEG). Since home-usage of such devices for early seizure onset warning is currently not possible, the aim of this work is the analysis of alternative, EEG-less methods for seizure detection or prediction.

The work of this thesis is split in four parts:

1. Analysis of existing methods for EEG-less seizure detection
2. Assembly of required sensors and preparation of a clinical trial
3. Clinical trial
4. Analysis.

We recommend to perform part 1 & 2 prior to the "Freisemester".

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