## Brain State Decoding Lab

BrainLinks-BrainTools Computer Science Dept.

## **BCI Project - Neglect**

FREIBURG



Just what is BCI, anyway?

A Brain-Computer Interface (BCI) makes use of machine learning methods, to decode ongoing brain signals. Via BCIs, users can type text, control a computer or wheelchair - even if they are severely motor impaired. Who are we looking for?

CS master student seeking a master (group) project, or a thesis project --ideally with a strong background in: • machine learning

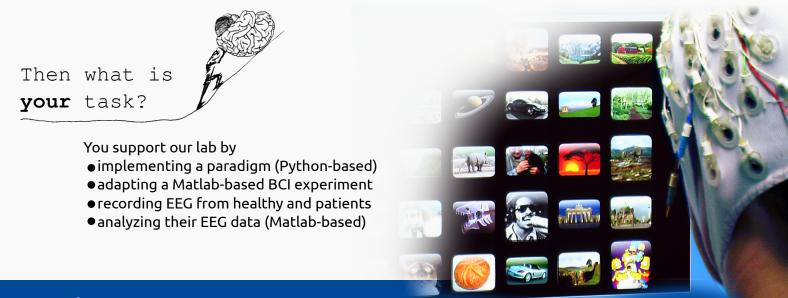
Matlab / data analysis

## The idea in brief:



We are convinced: decoding an acting brain is valuable beyond communication and control. Thus we take BCI methods into the field of stroke rehabilitation and create closed-loop applications for rehab training.

This project addresses a defect which has a severe impact on the quality of life of patients: **deficit in awareness to and attention of one halfspace** (neglect).



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