PhD in Neuropsychiatry lab

The lab aims to bridge between clinics and research, neurology and psychiatry, physics and psychology in order to re-formulate our understanding of the human self and its pathologies. The different projects involve working with and for neurological and psychiatric patients, in the operation room, department and invasive neurophysiological unit, as well as sophisticated signal analysis and modeling. **We are looking for creative and motivated PhD students** with background in physics/computer science/engineering/applied mathematics (signal analyses, modeling) or psychology (neuropsychology, cognitive science; high-profile motivated students from other disciplines are also welcome).

Projects include:

1. electrophysiological recording and analyses in psychiatric patients in different clinical phases.

2. electrophysiological recording and analysis of intracranial data in epileptic patients undergoing epileptic surgery and presurgery evaluation, as well as patients in awake craniotomy.

3. pre-surgery work up and functional operation planning.

4. electrical and metabolic neuroimaging in healthy subjects and neurological patients and modeling of the human "self" in health and disease.

5. development of new tools for treatment and diagnosis in neuropsychiatry.

Co-supervisors from other disciplines are possible, as well as a joint stage in neuropsychology in the department of neurology at Hadassah. Joint projects are managed with the departments of neurology and psychiatry at Hadassah, the Swiss Institute of Technology and various psychiatric hospitals.

For more details please contact Dr Shahar Arzy at shahar.arzy@gmail.com or 050-8573963

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Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

**The Building**

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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