

Two PostDocs and Two PhD/Master positions are available at Interdisciplinary Center Herzliya (IDC), Israel

Two PostDocs and Two PhD/Master positions are available in the Baruch Ivcher's Institute for Brain, Cognition and Technology headed by Prof. Amir Amedi (<https://www.idc.ac.il/en/research/bct/pages/about-prof-amir-amedi.aspx>) at the Interdisciplinary Center Herzliya (IDC), Israel. Two positions are funded by our second new European Research Council Grant (no. 773121) to study the **nature vs. nurture factors** in shaping brain specialization using novel technologies developed by the lab (see <https://www.idc.ac.il/en/research/bct/pages/main.aspx>). The lab publishes cutting edge neuroscience and technology papers in leading journals like J. Neuroscience, Current Biology, Nature Neuroscience, Nature Communications, Neuron etc. For more lay language information about the two projects see (<https://www.brainvisionrehab.com/haaretz-cover-story>)

Another two positions are part of a new Joy Venters grant "Space Body Sound" which involves developing **mind body interventions (MBIs)** for achieving beneficial mental and emotional goals in health and disease, and testing them using our unique multisensory space, physiological recordings and fMRI.

Equipment in the lab:

- One of a kind Multisensory Ambisonics Room with 97 speakers and screens for multisensory stimulation
- Set-up for physiological recordings
- touch and auditory devices for augmentation and sensory substitution and
- VR and motion capture system
- a dedicated research MRI centre equipped with a 3T scanner located in the lab building with almost unlimited access to brain imaging acquisition

Job Description:

We are looking for highly motivated and independent researchers for fully funded **positions** who have interest in (multi)sensory perception/integration, and brain functional and structural imaging (fMRI, resting-state fMRI and DTI). The selected candidate will design and conduct novel behavioral and imaging studies, and analyse the collected data. Experience in either (1) leading at least one paper in the field of NeuroImaging or (2) background in machine learning / computer science is a must.

Additional required qualifications and skills:

- BA / MA in Cognitive Neuroscience or related field, e.g. Psychology, Neuroscience, Cognitive Science, Computer Science, Engineering or similar (for PhD positions).

- PhD in Cognitive Neuroscience or related field, e.g. Psychology, Neuroscience, Cognitive Science, Computer Science, Engineering or similar (for Postdoc positions).
- Programming proficiency, preferably in Matlab, R, or Python.
- Excellent analytical and statistical skills
- Experience in designing, conducting and analysing fMRI experiments
- Experience in designing, conducting and analysing behavioural and/or EEG experiments
- Excellent scientific writing and communication skills, documented by peer-reviewed publications
- Ability to work independently
- Ability to supervise junior students

Desired:

- Experience in advanced fMRI analysis methods, e.g. retinotopic mapping, multi-variate pattern analysis, representational similarity analysis, or machine learning approaches.

The positions do not require teaching, but there is the opportunity to gain teaching and supervision experience if desired. The Interdisciplinary Center of Herzliya (IDC) is a bilingual university (Hebrew&English). Israel is multilingual and multicultural, offers a high standard of living and great opportunities for outdoor activities. Herzliya is a vibrant city located between Tel-Aviv and Netanya, both lie within commuting distance. Salaries are in accordance with the guidelines of the Interdisciplinary Center of Herzliya (IDC). Start dates are flexible.

Informal enquiries and applications including CV, motivation letter and contact details of at least 2 referees should be sent to amedilab@idc.ac.il