

Moataz Assem

E-mail: moataz.assem@boun.edu.tr

Tel: +905061591948

Address: 34684 - Cengelkoy, Uskudar, Istanbul, Turkey

Nationality: Egyptian

DOB: 11/02/1991

EDUCATION

- 2014 **MSc. Biomedical Engineering**
- (June 2016) Institute of Biomedical Engineering, Bogazici University
Neuroengineering track – GPA: 3.88
Thesis advisors: Ahmet Ademoglu (Bogazici U.), Evelina Fedorenko (MIT/MGH)
Thesis title: Predicting inter-individual variability in executive abilities from fMRI responses of the Multiple Demand system
- 2007 **MB BCh Bachelor Degree in Medicine and Surgery**
– 2013 Faculty of Medicine, Alexandria University
GPA: 3.44

RESEARCH EXPERIENCE

- Nov 2013 **Master Student Researcher (previously intern until Aug 2014)** - PI: Ahmet Ademoglu
– present Neurosignal Analysis Laboratory, Institute of Biomedical Engineering, Bogazici University
- *Statistical modelling of MRI and EEG data*
- June 2015 **Visiting Researcher (ongoing collaboration)** - PI: Evelina Fedorenko
– present Ev Fedorenko's Language Lab, MIT Brain and Cognitive Sciences Department
- *Investigating Multiple Demand and language systems*
- Dec 2013 **Researcher** - PI: Tamer Demiralp
– present Cognitive Electrophysiology Lab and Neuroimaging Unit of Hulusi Behcet Life Sciences Laboratories, Istanbul Faculty of Medicine (Capa), Istanbul University
- *Attention networks fMRI responses in MCI and AD as clinical neuroimaging biomarkers*
- Feb 2014 **Volunteer Research Assistant** - PI: Adil Deniz Duru
– Feb 2015 Sports Neuroscience and psychophysiology lab, Marmara University
- *Cognitive control in elite athletes using EEG/ERPs*
- Feb 2014 **Project assistant**, Neurotechnology lab, Istanbul Sehir University
– Sep 2014
- *Neuromarketing studies using simultaneous eye tracking and EEG/ERPs*

RESEARCH SCHOOLS

- 18- 22 Jan 2016 **Computational Neuroscience by the Mediterranean Winter School**, Centre for Advanced Mathematical Sciences, American University of Beirut and Princeton Neuroscience Institute

CLINICAL EXPERIENCE

- 2011 **Clinical Assistant** - Supervisor: Tarek Omar
– 2013 Alexandria Neuropediatrics Centre and Pediatrics Neurology Unit, Alexandria University Children's Hospital
- *ADHD, Autism, Cerebral palsy, pediatric epilepsy and EEG*
- Oct 2012 **Neurology Intern** - Supervisor: Betul Baykal
– Nov 2012 Neurology Department, Istanbul Medical School, Istanbul University
- *Epilepsy, Stroke, emergency neurology and clinical EEG*
- June 2011 **Neurosurgery Intern** - Supervisor: Thomas Andy Carroll
– July 2011 Neurosurgery Department, The University of Sheffield
- *Deep Brain Stimulation, skull base and epilepsy surgeries*

PUBLICATIONS

In M. Assem, E. Fedorenko. Predicting inter-individual variability in executive abilities from neural activity in the preparation Multiple Demand system

PEER REVIEWED CONFERENCE ABSTRACTS/POSTERS

2015 **M. Assem**, M. H. Alpsan, E. Karahan, A. Bayram, B. Bilgiç, H. Gürvit, A. Ademoglu, T. Demiralp. Differentiation of Attention Network Deficits in Mild Cognitive Impairment and Alzheimer's Disease by Means of Auditory oddball fMRI Responses. *15th European Congress on Clinical Neurophysiology, Brno, Czech Republic*

E. Sibel, C. Elif, **M. Assem**, A. Duru, H. Cotuk. Investigation of Stroop Effect Using Event Related Potentials of Elite Karate Players. *Tip Tekno 2015, Mugla, Turkey*

2014 **M. Assem**, M. H. Alpsan, E. Karahan, A. Bayram, B. Bilgiç, H. Gürvit, A. Ademoglu, T. Demiralp. fMRI Responses of Alzheimer's Disease and Mild Cognitive Impairment Patients during Target Detection. *20th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Hamburg, Germany*

Selman S. B., Karadağ M., **Assem M.**, Duru A. Event Related Potential Measurements of the Emotional Stroop Test on Athletes of Combat Sports. *18th National Biomedical Engineering Conference (BIYOMUT), Istanbul, Turkey*

Balcıoğlu T., Şahin D., **Assem M.**, Selman S. B., Duru D. G. Analysis of Gaze Characteristics with Eye Tracking in Elite Athletes: A Pilot Study. *18th National Biomedical Engineering Conference (BIYOMUT), Istanbul, Turkey*

PEER REVIEWED CONFERENCE PRESENTATIONS

2015 Differentiation of Attention Network Deficits in Mild Cognitive Impairment and Alzheimer's Disease by Means of Auditory oddball fMRI Responses. *15th European Congress on Clinical Neurophysiology, Brno, Czech Republic*

NON-PEER REVIEWED CONFERENCE PRESENTATIONS

2014 Simultaneous EEG and Eye Tracking for Neuromarketing Research: Turkish Airlines Website Project. *18th National Biomedical Engineering Conference (BIYOMUT), Istanbul, Turkey*

fMRI Responses of Alzheimer's Disease and Mild Cognitive Impairment Patients during Target Detection. *12th National Neuroscience Congress (USK), Istanbul, Turkey*

2013 Alexandria Neuroscience Committee: How are we helping develop neuroscience in Alexandria. *10th Alexandria International Psychiatry Congress, Alexandria, Egypt*

The Neuroscience of Brainwashing: Free Will. *10th Alexandria International Psychiatry Congress, Alexandria, Egypt*

An Overview of Neuroscience Research. *Alexandria Neuroscience Committee Opening Ceremony, Alexandria, Egypt*

AWARDS

- 15th European Congress on Clinical Neurophysiology Travel Bursary (2015)
- Computational Neuroscience by the Mediterranean Winter School Travel Award by Center for Advanced Mathematical Sciences, American University of Beirut (2016)

SCIENTIFIC AND PUBLIC SCIENCE COMMUNICATION POSITIONS

2013 **Egypt's Chapter Coordinator**, International Brain Bee Competition
– present Neuroscience competition for high school students

2012 **Founder, Students Board President**, Alexandria Neuroscience Committee
- 2014 Students initiated committee to improve neuroscience education and research in Alexandria, Egypt
Activities: Public sessions, neuro-journal and neuro-cinema clubs, research workshops