

Shahar Aberbach-Goodman

Curriculum Vitae

Date of birth: March 8th, 1989

Shahar.Aberbach@gmail.com

Education

- 2017 – Present Ph.D. In Neuroscience, direct Ph.D. program, Sagol School of neuroscience, Tel-Aviv University
- Research topic: "Neural Correlates of Goal-Oriented Action Hierarchy in Humans"
- Advisor: Prof. Roy Mukamel
- 2016 – 2017 MSc. In Neuroscience, direct Ph.D. program Sagol School of neuroscience, Tel-Aviv University
- 2013– 2016 BSc-Magna cum laude, double majors: Brain Sciences & Linguistics, Bar Ilan University
- 2001 – 2007 "Alliance" High School, Tel Aviv. Majors: Chemistry, French, English, Mathematics

Academic and professional experience

Teaching experience:

- 2020 Frontal teaching position: "Introduction to Neurophysiology" undergraduate course (~100 students), Sagol school of Neuroscience, Tel-Aviv University.
- 2015 - 2016 Teaching assistant: "Brain and Language" undergraduate course (~40 students), Multidisciplinary Brain Research Center, Bar- Ilan University.

Research experience:

- 2017 Research rotation: Developed data analysis procedure for speech reconstruction from ECoG recordings using advanced machine learning techniques. Under the supervision of Dr. Ariel Tankus, Tel-Aviv Sourasky Medical Center.
- 2015 – 2016 Research assistant: Designing a linguistic-behavioral study, and conducting and analyzing results from an EEG study investigating semantic neural representations.
- 2014 – 2016 Research assistant: Implementing and conducting three MEG studies on children, teenagers and adults, investigating neural and behavioral effects of peace Intervention and long-term exposure of war-related trauma on the developing brain.

Conference presentations and talks

Aberbach-Goodman, S. & Mukamel, R., (2021, April) Poster presentation at the 30th Annual Meeting of the society for the Neural Control of Movement (NCM), Virtual meeting.

Aberbach-Goodman, S. & Mukamel, R., (2021, February) Poster presentation at the 26th Annual Meeting of the Israel Society for Neuroscience (ISFN), Israel.

Aberbach-Goodman, S. & Mukamel, R., (2021, February) Poster presentation at the 4th conference on cognition Research of the Israeli Society for Cognitive Psychology (ISCOP), Israel.

Aberbach-Goodman, S. & Mukamel, R., (2020, November) Same Action, Different Meaning: Neural substrates of action semantic meaning. Talk at the Virtual Brainlab workshop, University of Barcelona

Aberbach-Goodman, S. & Mukamel, R., (2018, March) Poster presentation at the 8th Karniel Computational Motor Control Workshop (CMCW), Ben-Gurion University, Israel.

Publications

Aberbach-Goodman, S., Buaron, B., Mudrik, L. & Mukamel, R. (2022). Same Action, Different Meaning: Neural substrates of Action Semantic Meaning, *Cerebral Cortex*

Aberbach-Goodman, S. & Mukamel, R., (in prep) Temporal Hierarchy of Goal-Directed Actions

Aberbach-Goodman, S. & Mukamel, R., (in prep) Preparatory Signals Predict Final Future Actions

Non – academic professional experience

2014 "Natali- Healthcare solutions"- Instructing teenagers' groups on anatomy health, and medicine.

2009 – 2011 "Israel Nature & Parks Authority": Responsible for the instructors' course, created the program and tests on earth sciences topics, "Center of education and information", Eilat. Managed a team of instructors, "Center of education and information", Mitzpe Ramon.

Volunteer experience:

2021 Tikkun Olam Makers (TOM): Designed a device to provide accessibility to individuals with motor disabilities

2020 The Israeli-Palestinian conflict: Participated in debate sessions between Arab and Jewish students. Tel-Aviv University and The School for Peace.

2016 The Institute for The Advancement of the Deaf in Israel (DPII): Participated and learned the Israeli Sign Language in the DPII course.

Military service:

2007 – 2009 Training Coordinator & Instructor, "Israel Nature & Parks Authority",
Mitzpe-Ramon: Conducted field trainings, developed training
methodologies, and supervised a team of instructors.

Scholarships and Awards:

2021 The David and Paulina Trotsky foundation award for excellence, Dean of
students Tel-Aviv University, Israel

2016-2021 Interdisciplinary Doctoral Program in Neuroscience (IDPN), Sagol School of
Neuroscience scholarship.

2020 First place winning award in the "Let's connect" Hackathon of the Israel
Brainstorm Community.

Skills:

Programming: MATLAB, Python, JavaScript

Software: FSL, BrainVoyager, Connectome Workbench, SPSS, JASP, EEGLab, Psychtoolbox,
Premiere pro, MRICroGL

Hardware: BioSemi EEG system, Arduino

Operating Systems: Windows, Linux

Languages: Hebrew - Native, English – Fluent, French -Proficient