Batel Buaron

Curriculum Vitae

Date of birth: June 5th, 1991
+97250-4433177 | @BatelBuaron | batelbuaron@mail.tau.ac.il

Education:

2018-present – Ph.D. In Neuroscience, Sagol School of neuroscience, Tel-Aviv University.
Research topic: Coupling voluntary actions to their sensory outcome: Neural mechanisms underlying motor and sensory predictions in humans.

Advisor: Prof. Roy Mukamel

2015-2018 – MSc. In Neuroscience, Sagol School of neuroscience, Tel-Aviv University.
Thesis title: *"Lateralized Modulation of Self-Triggered Visual Stimuli"*.
Advisor: Prof. Roy Mukamel
Thesis grade – 97
Total GPA – 95.64

2012-2015 – BSc. In Psychology and Life-Sciences, Sagol School of Neuroscience, Tel-Aviv University.
Total GPA – 90
Psychology GPA – 91
Life sciences GPA – 89

2006-2009 – High-school graduation (Summa Cum Laude) with full Bagrut certificate.
Total GPA – 111.5
5 point subjects: Mathematics, English, Computer Sciences, and Psychology.

Academic and professional experience:

2016-present – Teaching assistant: *"Physiological Psychology"* first year undergraduate course (~220 students), School of Psychological sciences, Tel-Aviv University.
Responsible for answering students' questions, composing and checking home assignments, and assisting in composing and grading exams.

2016- present – Frontal teaching position: *"Physiological Psychology"* undergraduate course (~30 students), "SAWA" project for promoting Arab students, Dean of students, Tel-Aviv University.

2018-2019 – Frontal teaching position: *"Experimental Psychology"* undergraduate course (~30 students), "SAWA" project for promoting Arab students, Dean of students, Tel-Aviv University., Tel-Aviv University.

2017 – Frontal teaching position: *"Statistics for nursing"* undergraduate course (~50 students), "SAWA" project for promoting Arab students, Dean of students, Tel-Aviv University., Tel-Aviv University.

2016-2017 – Frontal teaching position: *"Statistics for Psychology"* undergraduate course (~50 students), "SAWA" project for promoting Arab students, Dean of students, Tel-Aviv University., Tel-Aviv University.

2015 – Research assistant in the lab of Prof. Yonatan Goshen, School of Psychological Sciences, Tel-Aviv University.
Assisted in conducting a behavioral experiment.

Scholars and awards:

2019 - David and Paulina Trotsky scholarship for graduate students, Dean of students Tel-Aviv University, Israel

2018 - Travel award for international conferences, Sagol school of neuroscience and Adams Super-Center for Brain Studies, Tel-Aviv University, Israel

Technical Skills:

Languages: Hebrew- Native Speaker, English- Native Speaker, Spanish- Basic
Programming languages: MATLAB, Python
Software: FSL, SPM, BrainVoyager, JASP, SPSS, STATISTICA, EEGlab, Psychtoolbox, Microsoft office.
OS: Windows, Linux
Hardware: BioSemi EEG system, SMI eyetracker, Eyelink eyetracker, Arduino

Publications:

Batel Buaron, Daniel Reznik, Ro'ee Gilron & Roy Mukamel (2020), *Voluntary Actions Modulate Perception and Neural Representation of Action-Consequences in a Hand-Dependent Manner, Cerebral Cortex*, doi:10.1093/cercor/bhaa156

Aberbach-Goodman S., Buaron B., Mudrik L., Mukamel R. (2022), *Same Action, Different Meaning: Neural Substrates of Action Semantic Meaning*, Cerebral Cortex. doi:10.1093/cercor/bhab483

Reznik D., Cohen N., Buaron B., Zion-Golumbic E. & Mukamel R. (2021), *Action-locked neural responses in auditory cortex to self-generated sounds*, Cerebral Cortex 31 (12), 5560-5569. doi:10.1093/cercor/bhab179

Aridan N., Ossmy O., Buaron B., Reznik D. & Mukamel R. (2018), *Suppression of EEG mu rhythm during action observation corresponds with subsequent changes in behavior*, Brain Research. 2018.04.013 doi:10.1016/j.brainres

Manuscripts in preparation

Buaron B., Reznik D. & Mukamel R.*, Expected intensity of action outcome is embedded in the action's kinetic features*

Hadar Dery*, Batel Buaron*, Roni Mazinter, Shalev Lavi & Roy Mukamel, *Audiomotor integration across hands and ears*

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Presentations in conferences

Hadar Dery*, Batel Buaron*, Roni Mazinter, Shalev Lavi & Roy Mukamel (February 2022)

Audiomotor integration across hands and ears, Oral Talk at the motor learning symposium at the 9th Conference on Cognition Research of the Israeli Society for Cognitive Psychology, Virtual Conference.

Buaron B., Reznik D., and Mukame R. (Februrary 2022)

Expectations of outcome intensity are embedded in the action's kinetic features Poster presentation at the 9th Conference on Cognition Research of the Israeli Society for Cognitive Psychology, Virtual Conference.

Buaron B., Reznik D., and Mukame R. (April 2021)

Expected intensity of action outcome is embedded in action kinematics. Poster presentation at the Annual Meeting of the Society for the Neural Control of Movement, international Virtual Conference.

Buaron B., Reznik D., and Mukamel R. (February 2021)

Expectations of outcome intensity are embedded in the kinematics of stimulus-triggering actions. Poster presentation at the 8th Conference on Cognition Research of the Israeli Society for Cognitive Psychology, Virtual Conference.

Buaron B., Reznik D., Gilron R. & Mukamel R. (July 2019)

Lateralized Modulation of Self-Generated Visual Stimuli. Poster presentation at the 7th Progress in Motor Control conference, Amsterdam, Netherlands.

Buaron B., Reznik D., Koren S. & Mukamel R. (February 2019)

Expected intensity of self-generated sounds is expressed in pre-movement EEG beta desynchronization. Poster presentation at the 3rd Sagol School of Neuroscience Retreat, Ma'ale HaHamisha, Israel.

Buaron B., Reznik D., Gilron R. & Mukamel R. (May 2018)
Lateralized Modulation of Self-Generated Visual Stimuli. Poster presentation at the 2018 Vision Sciences Society (VSS) Annual meeting, St. Pete Beach, Florida USA.

Buaron B., Reznik D., Gilron R. & Mukamel R. (February 2018)
Lateralized Modulation of Self-Generated Visual Stimuli. Poster presentation at the 5th Conference on Cognition Research of the Israeli Society for Cognitive Psychology Acre, Israel.

Buaron B., Reznik D., Koren S. & Mukamel R. (February 2018)
Expected intensity of self-generated sounds is expressed in pre-movement EEG beta desynchronization. Poster presentation at the 5th Conference on Cognition Research of the Israeli Society for Cognitive Psychology
Acre, Israel.

Buaron B., Reznik D., Koren S. & Mukamel R. (December 2017)
Expected intensity of self-generated sounds is expressed in pre-movement EEG beta desynchronization. Poster presentation at the 26th Annual Meeting of the Israel Society for Neuroscience, Eilat, Israel.

Reznik D., Buaron B., Zion-Golumbic E. & Mukamel R. (December 2017)
Voluntary Actions Modulate Auditory Perception and Neural Responses to Near-Threshold Sounds. Poster presentation at the 26th Annual Meeting of the Israel Society for Neuroscience, Eilat, Israel.

Buaron B. & Mukamel R. (September 2017)
Lateralized Modulation of Self-Generated Visual Stimuli. Talk at the annual meeting of Strauss computational neuro-imaging center, Tel Aviv University.

Buaron B. & Mukamel R. (March 2017)
Lateralized Modulation of Self-Generated Visual Stimuli. Poster presentation at the 13th Karniel Computational Motor Control Workshop, Ben-Gurion University.

Buaron B. & Mukamel R. (February 2017)
Lateralized Modulation of Self-Generated Visual Stimuli. Poster presentation at the 4th Conference on Cognition Research of the Israeli Society for Cognitive Psychology Acre, Israel.

Buaron B. & Mukamel R. (December 2016)
Lateralized Modulation of Self-Generated Visual Stimuli. Poster presentation at the 25th Annual Meeting of the Israel Society for Neuroscience, Eilat, Israel.