

## Roe A. Gilron

roeegilron@gmail.com | 972.54.980.7565 | Halperin 4 apt 4, Tel Aviv, Israel 6340404

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### EDUCATION

B.S. Neuroscience with highest honors *cum laude*, BA Psychology, Brandeis University 2009  
Doctoral Student in the Sagol School of Neuroscience at Tel Aviv University 2010 –Present

### RESEARCH EXPERIENCE

**Dr. Roy Mukamel – Tel Aviv University** 2011 - Present

- Designed and analyzed results from an fMRI study investigating the functional properties of the mirror neuron system.
- Developed new tools for the application of MVPA in fMRI that allow for faster run times and reproducible results.
- Performed ECoG and single unit experiments with epilepsy patients in a clinical setting.
- Setup and streamlined interface of acquisition tools for ECoG and single unit recordings (BlackRock Neuromed).
- Managed a team of 6 undergraduate research assistants to assist in collecting and analyzing data.

**Prof. Talma Hendler – Wohl Institute for Advanced Imaging, Tel Aviv University** 2010

- Aided in experimental post hoc analysis of a long term fMRI study during doctoral program rotations
- Suggested novel method for analyzing large cohort data (ICC), implemented on exiting data set.

**Dr. Angela Gutchess- Aging Culture and Cognition Lab, Brandeis University** 2008-2010

- Designed and implemented original fMRI study on the neural basis of first impressions.
- Developed original data analysis procedures still in use by the lab.

**Prof. Galit Yovel- Face Recognition Lab, Tel Aviv University** Summer 2008

- Conducted behavioral research piloting an experiment that was later run in an fMRI.
- Helped in pre scanning set up of joint EEG-fMRI experiment and subsequent data analysis.

**Prof. Claude Ghez – Ghez Lab - Columbia University** Summer 2007

- Devised experimental procedure for motor control experiments.
- Performed data analysis using Matlab, ran experimental program interface.

**Prof. Paul DiZio Graybiel Spatial Orientation Laboratory, Brandeis University** 2006-2007

- Directed a NASA sponsored motion control experiment, including setup, planning and experimental procedure.
- Recruited subjects and conducted data analysis; helped run lab's ongoing experimentation.

### PUBLICATIONS AND PRESENTATIONS

Published:

- Gilron, R.**, Simon, S., Mukamel, R.. (2015). Neural Correlates of Intentions. The Sense of Agency. P. Haggard and B. Eitam, Oxford University Press. 2015
- Krasovsky, A., **Gilron R\***, Yeshurun H., & Mukamel, R. (2014). "Differentiating Intended Sensory Outcome from Underlying Motor Actions in the Human Brain." Journal of Neuroscience 34(46): 15446-15454. 2014
- Gilron, R.**, & Gutchess, A. H. (2012). Remembering first impressions: Effects of intentionality and diagnosticity on subsequent memory. Cognitive Affective & Behavioral Neuroscience, 12(1), 85-98. doi: 10.3758/s13415-011-0074-6 2012
- Gilron R.** & Mukamel R. Widescale sensorimotor activation to observation of dynamically generated text. [in preparation].

Forthcoming:

- Gilron R.** & Mukamel R. Widescale sensorimotor activation to observation of dynamically generated text. [in preparation].
- Gilron R.**, Rosenblatt, J, Koyejo S., Poldrack R., & Mukamel R. Group inference in Multivariate analysis - quantifying spatial pattern similarity using functional anisotropy. [in preparation].
- Gilron R.**, Rosenblatt, J, Koyejo S., Poldrack R., & Mukamel R. Assessing reproducibility in MVPA applications. [in preparation].

## TEACHING EXPERIENCE

- Methods and analysis of fMRI data, instructor** 2012- Present
- Develop course syllabus, give lectures.
  - Manage course in a computer lab setting, design and grade lab assignments.
- Physiological Psychology Teaching Assistant** 2011 - Present
- Answer questions, write interim quizzes for class of 350 students.
  - Assist in writing exam, grading exams.
- Cahanoff Program – instructor** 2012 - Present
- Teach supplemental classes to a group of Arab students taking the Physiological Psychology class.
  - Students taught performed at equivalent levels to their Jewish peers, despite language barriers faces by the group.
- Neuroanatomy Teaching Assistant** 2011
- Perform dissections of human brain and instruct a group of 10-20 students.

## INVITED LECTURES:

- **Gilron R.**, & Mukamel, R., Parvizi Lab, Stanford October 2015
- **Gilron R.**, Rosenblatt, J., & Mukamel, R., Poldrack Lab, Stanford October 2015
- Krasovsky A., **Gilron R.**, Yeshurun H., & Mukamel, R. ISFN, Israel December 2013
- **Gilron R.**, A. Gutchess, B. Cassidy. Symposium APS conference, Boston May 2010
- **Gilron R.**, A. Gutchess. Society For Neuroscience, Chicago. (Minisymposium) October 2010
- **Gilron R.**, A. Gutchess. Schacter and Buckner lab meeting, Harvard University May 2009
- **Gilron R.**, Experiential Learning Conference, Brandeis University (one of 4 keynote speakers) March 2009

## POSTER PRESENTATIONS:

<b>Gilron R.</b> , R. Mukamel. Poster, OHBM, Geneva, Switzerland	June 2016
<b>Gilron R.</b> , R. Mukamel. Poster, Society For Neuroscience, Chicago	October 2016
<b>Gilron R.</b> , R. Mukamel. Poster, Society For Neuroscience, San Diego	November 2013
<b>Gilron R.</b> , R. Mukamel. Poster, OHBM conference, Beijing, China	June 2012
<b>Gilron R.</b> , R. Mukamel. Poster, ISFN conference, Eilat, Israel	December 2011
<b>Gilron R.</b> , A. Gutchess. Poster, APS conference, Boston, USA	May 2010

#### **AWARDS:**

Computational Motor Control Workshop best Poster Award	2014
Adams Super Center for Brain Science Fellowship	2011
Reis and Sowel Family Prize in Neuroscience (given to the top neuroscience research project)	2009

#### **LEADERSHIP EXPERIENCE:**

**Founder of Israel Story - [www.israelstory.org](http://www.israelstory.org)** 2010 - Present

- Founded Israel Story, an innovative radio show and podcast modeled after the US podcast – This American Life.
- Successfully led the growth of Israel Story (סיפור ישראלי) from a podcast with a few thousand listeners to production of a complete season which aired on Israeli Amy national radio (גל"צ) during prime time.
- Wrote grants and secured funding (over \$100,000) for producing the second season of the radio show, supervised hiring staff.

**Founder of MuseTrek – [www.musetrek.com](http://www.musetrek.com)** 2007 - 2010

- Founded MuseTrek, a startup geared at creating interactive museum experiences using cutting edge technology.
- Managed a world wide team of over 20 individuals, in Paris, Brazil, and Boston.
- Collaborated and maintained constant contact with web-developers at the Harvard Idea Translation Lab.

#### **SKILLS:**

- Designed, implemented, and analyzed fMRI experiments using Matlab, expert level user of Matlab.
- Expert level user of SPM package for analyzing fMRI data in Matlab.
- Experience in writing iOS applications for the iPad and iPhone for running scientific experiments.
- Native Hebrew & English speaker.