

Education

- **PhD in Computational Neuroscience in ELSC center** (2015-currently)
Hebrew University of Jerusalem
Advisor: Prof. Yonatan Loewenstein
- **MA in Cognitive Studies - with honors** (2013-2015)
Hebrew University of Jerusalem
Advisor: Prof. Oron Shagrir, research topic: Philosophy of the cognitive sciences
Final GPA: 97/100
- **BA in Cognitive Studies and Psychology - with high honors** (2010-2013)
Hebrew University of Jerusalem
Final GPA: 98/100

Papers in review

- **Elber-Dorozko, L.** and Shagrir, O. (In revision in *Synthese*). Integrating computation into the mechanistic hierarchy in the cognitive and neural sciences.

Publications

- **Elber-Dorozko, L.** (2018). Manipulation is key - On why non-mechanistic explanations in the cognitive sciences also describe relations of manipulation and control. *Synthese SI: Neuroscience and its philosophy*, 195: 5319. <https://doi.org/10.1007/s11229-018-01901-3>.
- **Elber-Dorozko, L.** and Loewenstein, Y. (2018). Striatal action-value neurons reconsidered. *eLife*, 7: e34248. DOI: 10.7554/eLife.34248
- **Elber-Dorozko, L.** and Shagrir, O. (2018). Computation and levels in cognitive and neural science. In Colombo, M. and Sprevak, M. (eds.) *Routledge Handbook of the Computational Mind*. Routledge.
- Nahari, T., Breska, A., **Elber, L.**, Selle, N.K. and Ben-Shakhar, G. (2016). The external validity of the Concealed Information Test: The effect of choosing to commit a mock-crime. *Applied Cognitive Psychology*, 31: 81-90.
- Gronau, N., **Elber, L.**, Satran, S., Breska, A. and Ben-Shakhar, G. (2015). Retroactive memory interference: A potential countermeasure technique against psychophysiological knowledge detection methods. *Biological Psychology*, 106: 68-78.

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- Meijer, E. H., Selle, N. K., **Elber, L.** and Ben-Shakhar, G. (2014) Memory detection with the Concealed Information Test: A meta analysis of skin conductance, respiration, heart rate, and P300 data. *Psychophysiology*, 51: 879–904.

Presentations at conferences

- Elber-Dorozko, L. Are we regularly finding the neural representations of the wrong variables? 'Action-value' as a case study.
 - Causation and Computation in Neuroscience (GIF project). Jerusalem, Israel. (talk) (Dec. 2018)
 - The joint philosophy and cognitive studies seminar at Ben Gurion University. (talk) (Nov. 2018)
- Elber-Dorozko, L. and Loewenstein, Y. Striatal action-value neurons reconsidered.
 - Cosyne 2018. Denver, USA. (poster) (Mar. 2018)
 - Janelia's Theoretical Neuroscience Junior Scientist Workshop. Janelia, USA. (talk) (Oct. 2017)
 - The Gatsby Tri-center meeting. Jerusalem, Israel. (talk) (Jun. 2017)
 - Society for Neuroeconomics Annual Conference. Miami, USA. (poster) (Sep. 2015)
- Elber-Dorozko, L. and Shagrir, O. Computation and Mechanism in Cognitive Neuroscience.
 - Jerusalem-MCMP Workshop in the Philosophy of Science. Jerusalem, Israel. (talk) (Feb. 2018)
 - European Philosophy of Science Association 2017 (EPSA17). Exeter, England. (talk) (Sep. 2017)
- Elber-Dorozko, L. Manipulation is key.
 - Causation and Computation in Neuroscience (GIF project). Jerusalem, Israel. (talk) (Dec. 2017)
 - Jerusalem-MCMP Workshop in the Philosophy of Science. Munich, Germany. (talk) (Feb. 2017)
 - Causation and Computation in Neuroscience (GIF project). Cologne, Germany. (talk) (Jul. 2016)
 - Causation and Computation in Neuroscience (GIF project). Witten, Germany. (talk) (Sep. 2015)

Awards and scholarships

- Azrieli fellow – fellowship for excellent PhD students (2018-currently)
- Samuel & Lottie Rudin Foundation Scholarship for PhD students, for excellence in academic studies (2016-currently)
- Rector's award (2015 – MA, 2012 – BA)
- Einstein Scholarship for excellent BA students from the Kate and Franz Weiner foundation (2012-2013)
- Award for excellence in Cognitive Studies (2016 – outstanding master's thesis, 2015 – excellence in MA studies, 2011-2013 – excellence in BA studies)

Professional Experience

- Teacher
 - Dynamical systems and the neuron (graduate class in ELSC) (2017-currently)
- Teaching Assistant (in BA classes in cognitive studies)

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- Introduction to logic for cognitive sciences (2014-2017)
- Research methods in cognition (2013-2014)
- Research assistant in Prof. Gershon Ben-Shakhar's lab for cognitive psychophysiology (2011-2015)
 - Lab manager (2013-2014)

Community involvement

- "Common ground" – running discussions about gender stereotypes with middle school girls (2014-2015; 2018-currently)
- "HeadStart" – teaching fun neuroscience for high school students (2017-2018)
- "Perach" scholarship – tutoring students with learning disabilities (2012-2013)
- "Katif Israeli" – working in picking fruit at Kibbutz Ein Zivan (2012)