

Ido Ben-Artzi

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EDUCATION

- 10/2022–Present Ph.D. in Neuroscience, Sagol School of Neuroscience, Tel Aviv University
- 09/2025–11/2025 Visiting Scholar in Prof. Tom Griffiths' lab, Princeton University, USA
- 08/2024–10/2024 Visiting Scholar in Prof. Peter Dayan's lab, Max Planck Institute of Biological Cybernetics, Tübingen, Germany
- 10/2020–09/2022 Experimental Psychology, Psychology Department, Tel Aviv University
M.A. Summa Cum Laude– GPA 99
- 08/2019–03/2021 NA-MBA Business School Program – Jolt
- 10/2017–08/2020 Biology & Psychology with an emphasis on Neuroscience, Sagol School of Neuroscience
BSc. Magna Cum Laude– GPA 94

PUBLICATIONS

- Ben-Artzi, I., Pereg, M., Luria, R., Moran, R., Shahar, N. (2026). Automatic value learning results in counterproductive human behavior. (*In Press – Nature Communications*) (JCR2024: IF=15.7, Q1 10/136 in Multidisciplinary Sciences)
- Ben-Artzi, I., Rozenkrantz, L., Shahar, N. (2026). Autism-associated learning patterns show reduced credit assignment to outcome-irrelevant features. *Translational Psychiatry* (JCR2024: IF=6.2, Q1 21/288 in Psychiatry)
- Ben-Artzi, I., Kessler, Y., Nicenboim, B., & Shahar, N. (2023). Computational mechanisms underlying latent value updating of unchosen actions. *Science Advances* (JCR2022: IF=13.6, Q1 7/73 in Multidisciplinary Sciences)
- Ben-Artzi, I., Luria, R., & Shahar, N. (2022). Working memory capacity estimates moderate value learning for outcome-irrelevant features. *Scientific Reports* (JCR2021: IF=4.997, Q2 19/74 in Multidisciplinary Sciences)
- Ben-Artzi, I., & Shahar, N. (2024). Outcome-Irrelevant and State-Independent Learning Mechanisms in Human Reinforcement Learning. *NeurIPS 2024 Workshop on Behavioral Machine Learning.*
- Pereg, M., Hertz, U., Ben-Artzi, I., & Shahar, N. (2024). Disentangling the contribution of individual and social learning processes in human advice-taking behavior. *Npj Science of Learning* (JCR 2022: IF=4.2, Q1 41/269 in Educational Research)
- Ben-Artzi, I., Russek, E., Kuperwajs, I., Shahar, N., Mattar, M., Ma, W.J., Griffiths, T. (2026). People make history-dependent decisions in Markovian environments. (*Under review - Psychological Science*)

Ben-Artzi, I., Braem, S., Lamy, D., Shahar, N. The generality of outcome-irrelevant credit assignment in human learning. (*Accepted Stage 1 Registered report Psychonomic Bulletin & Review*)

Ben-Artzi, I., Kagan, A., Shir, Y., Mudrik, L., Shahar, N. Automatic outcome-irrelevant value learning facilitates picking. (*Registered report – Under review*)

Ben-Artzi, I., Erdinast, T., Swissa, K., Marcus, M., Eldar, E., Shahar, N. Computational reinforcement learning processes underlying the onset and maintenance of compulsive behavior. (*In preparation*)

Ben-Artzi, I., Wolpe, N., Shahar, N. Examining the cost of control over automatic credit assignment processes. (*In preparation*)

Ben-Artzi, I., Daw, N., Wurm, F., Shahar, N. Latent EEG neural signature of automatic credit assignment. (*In preparation*)

INVITED TALKS

05/2026	Ben-Artzi, I., Pereg, M., Luria, R., Moran, R., Shahar, N. Automatic value learning results in counterproductive human behavior. <i>Neural Basis of Cognition Lab (Prof. Finkelstein), Tel Aviv University</i> (invited talk)
10/2025	Ben-Artzi, I., Russek, E., Griffiths, T. People make history-dependent decisions in Markovian environments. <i>Wei Ji Ma & Marcelo Mattar lab meeting, NYU</i> (60-min talk)
10/2025	Ben-Artzi, I., Pereg, M., Luria, R., Moran, R., Shahar, N. Automatic value learning results in counterproductive human behavior. <i>Concats Seminar, NYU</i> (90-min talk)
09/2025	Ben-Artzi, I., Pereg, M., Luria, R., Moran, R., Shahar, N. Automatic value learning results in counterproductive human behavior. <i>Tom Griffiths' lab meeting, Princeton University</i> (60-min talk)
10/2024	Ben-Artzi, I. & Shahar, N. Cognitive Mechanisms Underlying Outcome-Irrelevant Learning in Human Choice Behavior. <i>Dynamic Cognition Lab, Tübingen, Germany</i> (90-min talk)
09/2024	Ben-Artzi, I. & Shahar, N. Cognitive Mechanisms Underlying Outcome-Irrelevant Learning in Human Choice Behavior. <i>Max Planck Institute for Biological Cybernetics, Tübingen, Germany</i> (90-min talk)

PUBLIC SPEAKING

01/2025	Ben-Artzi, I. Chess, Autism, and the Hidden Strengths of Neurodiversity. <i>TEDx event, Tel Aviv University</i>
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WORKSHOPS

07/2024	Ben-Artzi, I., Marcus, M., Elchayani, S., Katabi, G., Shahar, N. Reinforcement learning modeling for human choice behavior. <i>57th Annual Meeting of the Society</i>
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CONFERENCE PRESENTATIONS – ORAL

- 05/2026 Ben-Artzi, I., Rozenkrantz,L.,Shahar,N. Autism-associatedlearning patterns show reducedcredit assignmentto outcome-irrelevant features. *Israeli Biological Psychiatry Conference,Jerusalem,Israel.*
- 02/2026 Ben-Artzi, I., Pereg,M.,Luria, R.,Moran, R.,Shahar,N. Automatic value learning results in counterproductive human behavior. *Israeli CognitivePsychology Conference,Akko, Israel.*
- 06/2025 Ben-Artzi, I., Rozenkrantz,L.,Shahar,N. Autism-associatedlearning patterns show reducedcredit assignmentto outcome-irrelevant features. *Israeli Computational Psychiatry Conference2025,Tel Aviv, Israel.*
- 05/2025 Ben-Artzi, I., Pereg,M.,Luria, R.,Moran, R.,Shahar,N. Automatic and implicit outcome-irrelevant model-free learning in human behavior. *Tel Aviv Schoolof Psychology Conference.*
- 04/2025 Ben-Artzi, I., Swissa,K.,Marcus, M., Eldar, E.,Shahar,N. Computational reinforcement learning processesunderlying the onsetand maintenance of compulsive behavior. *Israeli Biological Psychiatry Conference,Jerusalem,Israel.*
- 02/2025 Ben-Artzi, I., Pereg,M.,Luria, R.,Shahar,N. Automatic and implicit outcome-irrelevant model-free learning in human behavior. *Israeli CognitivePsychology Conference2025, Akko, Israel.*
- 09/2024 Ben-Artzi, I. & Shahar,N. Cognitive MechanismsUnderlying Outcome-Irrelevant Learning in Human Choice Behavior. *EuropeanMathematical PsychologyConferenc Tübingen, Germany.*
- 07/2024 Ben-Artzi, I., Kessler,Y.,Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosenactions. *57thAnnual Meeting of the Societyfor Mathematical Psychology.*
- 03/2024 Ben-Artzi, I., Swissa,K.,Marcus, M., Shahar,N. Value-basedmechanisms underlying compulsive rituals. *Israeli SocietyforComputationalPsychiatry.*
- 07/2023 Ben-Artzi, I. & Shahar,N. Cognitive Overfitting — A NovelTheoretical Mechanism for Compulsive Rituals. *International OCDFoundation Conference,San Francisco, USA.*
- 02/2023 Ben-Artzi, I., Kessler,Y.,Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosenactions. *Israeli Societyfor Cognitive Psychology2023, Akko, Israel.*
- 02/2023 Ben-Artzi, I., Kessler,Y.,Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosen actions. *Sago/Schoolof NeuroscienceRetreat2023, Nazareth, Israel.*

- 09/2022 Ben-Artzi, I., Kessler,Y., Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosen actions. *Neuromatch Computational NeuroscienceConference2022*.
- 12/2021 Ben-Artzi, I., Luria, R.,& Shahar,N. Cognitive resources predict value learning for outcome-irrelevant features. *NeuromatchComputational NeuroscienceConference 2021*.

CONFERENCE PRESENTATIONS – POSTER

- 10/2025 Ben-Artzi, I., Pereg,M.,Luria, R.,Shahar,N. Automatic value learning results in counterproductive human behavior. *Societyfor Neuroeconomics2025,Boston,USA*.
- 07/2025 Ben-Artzi, I., Swissa,K.,Marcus, M., Eldar, E.,Shahar,N. Computational reinforcement learning processes underlying the onset and maintenance of compulsive behavior. *Computational PsychiatryConference2025,Tübingen, Germany*.
- 06/2025 Ben-Artzi, I., Pereg,M.,Luria, R.,Shahar,N. Automatic and implicit outcome-irrelevant model-free learning in human behavior. *RLDM2025,Dublin, Ireland*.
- 03/2025 Ben-Artzi, I., Shahar,N., Rozenkrantz,L. Reduced Outcome-Irrelevant Learning in Autistic Spectrum Disorder. *Israeli Societyfor Autism Research,BeerSheva,Israel*.
- 12/2024 Ben-Artzi, I., & Shahar,N. Outcome-Irrelevant and State-Independent Learning Mechanisms in Human Reinforcement Learning. *NeurIPSWorkshoponBehavioral Machine Learning, Vancouver,Canada*.
- 09/2024 Ben-Artzi, I. & Shahar,N. Cognitive Mechanisms Underlying Outcome-Irrelevant Learning in Human Choice Behavior. *SystemsNeuroscienceSymposium,Tübingen, Germany*.
- 07/2024 Ben-Artzi, I., Swissa,K.,Marcus, M., Shahar,N. Value-based mechanisms underlying compulsive rituals. *Tel Aviv University Clinical PsychologyPosterFair*.
- 10/2023 Ben-Artzi, I., Kessler,Y., Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosen action. *Societyof Neuroeconomics2023, Vancouver, Canada*.
- 10/2023 Ben-Artzi, I., Kessler,Y., Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosen action. *Consumer NeuroscienceSatellite Event, Society of Neuroeconomics2023, Vancouver, Canada*.
- 07/2023 Ben-Artzi, I., Kessler,Y., Nicenboim, B.,& Shahar,N. Computational mechanisms underlying latent inverse value updating of unchosen action. *Collaborative Researchin Computational NeuroscienceConference,Tel Aviv, Israel*.
- 07/2023 Ben-Artzi, I., & Shahar,N. Outcome-irrelevant learning and its theoretical and empirical association with compulsive human behavior. *ComputationalPsychiatry Conference,Dublin, Ireland*.

05/2023	Ben-Artzi, I., & Shahar, N. Controlling outcome-irrelevant learning in complex environments. <i>Minducate Poster Fair, Tel Aviv, Israel.</i>
02/2023	Ben-Artzi, I., Kessler, Y., Nicenboim, B., & Shahar, N. Computational mechanisms underlying latent inverse value updating of unchosen action. <i>Sagol School of Neuroscience Retreat 2023, Nazareth, Israel.</i> (Best poster award)
12/2022	Ben-Artzi, I., Kessler, Y., Nicenboim, B., & Shahar, N. Computational mechanisms underlying latent inverse value updating of unchosen action. <i>ELSC Brainy Days Conference, Jerusalem, Israel.</i>
12/2022	Ben-Artzi, I., Luria, R. & Shahar, N. Cognitive resources predict value learning for outcome-irrelevant features. <i>Israeli Society for Neuroscience, Eilat, Israel.</i>
09/2022	Ben-Artzi, I., Luria, R. & Shahar, N. Cognitive resources predict value learning for outcome-irrelevant features. <i>European Society for Cognitive Psychology, Lille, France.</i>
02/2022	Ben-Artzi, I., Luria, R. & Shahar, N. Cognitive resources predict value learning for outcome-irrelevant features. <i>Israeli Society for Cognitive Psychology, Akko, Israel.</i>
02/2021	Ben-Artzi, I., Luria, R. & Shahar, N. Cognitive resources predict value learning for outcome-irrelevant features. <i>Israeli Society for Cognitive Psychology, Akko, Israel.</i>

PRIZES & AWARDS

1. Chess International Master – 1st quarter Presidential Board Meeting, 26–29 April 2015, China
2. Princeton University funding for a 2-month visit to Prof. Griffiths' lab (\$5,000)
3. 4-year scholarship for outstanding PhD students – Milner Foundation, October 2023 (\$100,000)
4. Minducate Science of Learning Research and Innovation Center Fellow Grant 2024 (\$10,000)
5. Minducate Science of Learning Research and Innovation Center Fellow Grant 2023 (\$6,500)
6. Max Planck Institute funding for a 2-month visit to Prof. Dayan's lab (\$5,000)
7. Dean's list excellence grant – GPA 99 – School of Psychological Sciences, 2021 (\$1,400)
8. Travel grant – RLDM conference (\$1,200)
9. Faculty Dean paper excellence award – Ben-Artzi et al., 2023 *Science Advances* (\$700)
10. Faculty Dean paper excellence award – Ben-Artzi et al., 2022 *Scientific Reports* (\$400)
11. Best poster award – Sagol School of Neuroscience Retreat 2023 (\$150)
12. Best talk award – Tel Aviv School of Psychology Conference 2025 (\$100)
13. Dean's list BSc. – Sagol School of Neuroscience – 2018, 2019, 2020
14. Israeli under-18 chess champion 2012
15. Personal chess trainer of two Israeli youth chess champions (one from beginner to Grandmaster)

EMPLOYMENT

2022 – Present	Teaching Assistant, Tel Aviv University Teaching "Statistics and Research Methods" and "Basics of Programming in R" for Psychology and
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Neurosciencegraduate students.

2014 – Present	ChessMentor Guided and motivated children to develop their chess skills through structured instruction and emotional support.
2022	Teaching Assistant, Neuromatch Academy Delivered a 3-week course on Computational Neuroscience; mentored students through research projects on methodology, data analysis, and interpretation of results.
2020	Teacher – XTRAS Student, Tel Aviv University Taught "Physiological Psychology B" and built the curriculum based on Prof. Shamgar Ben Eliyahu's course.
2004 – 2017	Professional Chess Player International master, two-time Israeli youth chess champion, six-time representative of Israel in European and World championships.
2013 – 2016	Israeli Defense Forces – Special Sportsman Status Led integration initiatives for adolescents with Autism Spectrum Disorder and Intellectual Disabilities; developed outreach strategies for teenagers from socioeconomically disadvantaged backgrounds.

VOLUNTEERING

2021 – 2025	Member, Anti-Cheating Committee, Israeli Chess Federation
2021 – 2024	Member, Gifted Children Committee, Israeli Chess Federation
2020 – 2023	Community Leader, Brainstorm IL – Neurotech student community connecting neuroscience researchers with the Israeli Neurotech industry
2020 – 2021	Member, Women's Advancement Committee, Israeli Chess Federation
2022	Children Playing Chess (CPC) – Promoting Chess in the Periphery: guided 13-year-olds from Beer Sheva, Lod, and Southern Tel Aviv in holiday seminars covering chess, agriculture, biology, finance, and dog training

AD HOC REVIEWER

- Cerebral Cortex
- Journal of Behavior Therapy and Experimental Psychiatry
- CogSci Conference
- Computational Cognitive Neuroscience Conference

OTHER

Hobbies: Improvisation Theater, Running, Philosophy

Languages: Hebrew (native), English (fluent), Spanish (basic)

Programming: Python, R, MATLAB, JavaScript, Stan, PyTorch

Researchmentoring: Amit Rosen, Romy Shufman, Maya Marcus (2023); Sapir Nachmias, Hillel Banai, Amir Golan (2024); Sapir Nachmias, Hillel Banai, Lior Raymond, Shir Davidovich (2025); Liran Krupnik, Danielle Catalogna, Maya Oberhard (2026)