Eitan Hemed, PhD
Curriculum Vitae (Last updated 08/23)

Google Scholar | ResearchGate | GitHub | LinkedIn

POSITIONS

2023-present   Post-doctoral Associate,
Department of Psychology, University of Haifa, Israel
Fellow of the Data Science Research Center, University of Haifa
Host: Prof. Baruch Eitam

EDUCATION

2017-present   Ph.D. (direct-track), Psychology
University of Haifa, Israel
Supervisor: Prof. Baruch Eitam

2015-2017   M.A (Ph.D. direct-track), Psychology
University of Haifa, Israel
Supervisor: Prof. Baruch Eitam
Graduated Magna Cum-Laude

2008-2011   B.A, Psychology
University of Haifa, Israel
Graduated Magna Cum-Laude

PEER-REVIEWED PUBLICATIONS (*EQUAL CONTRIBUTION)

1. **Hemed, E.,** Karsh, N., Mark-Tavger, I., & Eitam, B. (2022). Motivation(s) from control: response-effect contingency and confirmation of sensorimotor predictions reinforce different levels of selection. *Experimental Brain Research*, 240(5), 1471-1497.

2. **Hemed, E.*,** Mark-Tavger, I.*, Hertz, U., Bakbani-Elkayam, S., & Eitam, B. (2022). Automatically controlled: Task irrelevance fully cancels otherwise automatic imitation. *Journal of Experimental Psychology: General*, 151(5), 996.

3. Karsh, N., **Hemed, E.**, Nafcha, O., Elkayam, S. B., Custers, R., & Eitam, B. (2020). The differential impact of a response's effectiveness and its monetary value on response-selection. *Scientific reports*, 10(1), 1-12

4. **Hemed, E.**, Bakbani-Elkayam, S., Teodorescu, A. R., Yona, L., & Eitam, B. (2020). Evaluation of an action's effectiveness by the motor system in a dynamic environment. *Journal of Experimental Psychology: General*, 149(5), 935.

5. Pansky, A., Oren, Y., Yaniv, H., Landa, O., Gotlieb, A., & **Hemed, E.** (2019). Positive and negative effects of gender expertise on episodic memory. *Memory & Cognition*, 47(2), 257-265.

PRE-PRINTS / UNDER REVIEW (*EQUAL CONTRIBUTION):

1. **Hemed, E.**, & Eitam., B., (Pre-print). Control Feedback Increases Response Speed Independently of the Feedback's Goal and Task Relevance.

2. Bakbani-Elkayam, S., Dolev-Amit, T., **Hemed, E.**, Zilcha, S., & Eitam, B. (Under revision). Intact Motivation in Major Depression: Normative Responsiveness to Action-Effectiveness Demonstrated in a Clinical Sample. *Emotion*.

PREPARED / SUBMITTED (*EQUAL CONTRIBUTION):

1. **Hemed, E.**, Bakbani-Elkayam, S., Teodorescu, A. R., Yona, L., & Eitam, B. (Pre-print). Evaluation of an action's effectiveness by the motor system in a dynamic environment: Amended. Submitted to *Journal of Experimental Psychology: General.*

2. Weksler, A.*, Clarke, S.*, **Hemed, E.***, Eitam, B.*, & Goldstein, A., (Submitted). Mental rotation of features and conjunctions. Submitted to *Nature Human Behaviour.*

PROFESSIONAL EXPERIENCE

2021-present   *University of Haifa, Israel*
Teaching assistant / Mentor / Lecturer
Python programming, data science and analysis. Taught multiple graduate-level workshops and summer schools. On some independently developed all course materials. Some materials made publicly available.

2017-present   *University of Haifa, Israel*
Research Programmer
Worked on projects for multiple labs and PIs; Programmed and deployed online and in-person behavioral experiments; developed data analysis and automated reporting pipelines for academic studies.

2016-2021   *University of Haifa, Israel*
Lab Manager (Baruch Eitam's lab)
Programmed dozens of behavioral experimental paradigms (mainly using Python and MATLAB) and matching data analysis pipelines (using Python, R and Stata); directed a team of research assistants; reformed lab protocols; lab administration and budget planning; participated in grant proposal preparation.

2017-2018   *Technological Institute of Israel (Technion), Israel*
Instructor - *Faculty of Industrial Engineering and management*
Taught Python programming and behavioral experiments design to students in the Behavioral and Management Sciences graduate program. Independently developed course material.

2011-2014   *Israel Defense Forces, Israel*
Organizational Research Officer - Military intelligence directorate
Conducted organizational studies using surveys, interviews, and literature reviews

2010-2011   *University of Haifa, Israel, Dean of students*
Tutored statistics and research methods to undergraduate students.

RESEARCH GRANTS (CONTRIBUTED AS MENTEE; *INDICATES NOT ACQUIRED)

2020*, 2021*   Eitam, B.; Israel Science Foundation (ISF).
2018*, 2021*   Eitam, B.; European Research Council (ERC).
2016-2022   Eitam, B. Blind Imagery? Studying the functions of visual awareness through visual imagery. Israel Science Foundation (ISF).
2016-2021   2016-2020 Eitam, B., & Wyble, B.; Tales of the expected and unexpected. The U.S.-Israel Binational Science Foundation (BSF).

RESEARCH GRANTS (AS GRANT LEADER)

2021-2024	**Hemed, E.,** Eitam, B., & Hel-Or, H.; DADI: Development of Directed-reaching Aptitude in Infancy. Data Science Research Center, University of Haifa
2021-2022	**Hemed, E.,** Graduate students research grant; Faculty of Social Sciences, University of Haifa

FELLOWSHIPS, FUNDS, SCHOLARSHIPS AND AWARDS (*INDICATES NOT ACQUIRED)

2022-present	Postdoctoral fellowship; Data Science Research Center, University of Haifa
2022	Award for excellence in PhD research, in honor of 2022 Rothschild prize awardees; Yad-HaNadiv foundation, Israel
2020 *and* 2021	Dr. Galit Armon Memorial Award for Excellence in PhD Research; Department of Psychology, University of Haifa
2019	Graduate Students Travel Award; Psychonomic Society
2019	1st place team (tie); Neurotech hackathon, BrainStorm IL, Israel
2018 *and* 2019	Travel funds; Research Authority, University of Haifa, Israel
2018*	PhD candidates fellowship (interviews finalist); Azrieli foundation, Israel
2016	Travel funds; Institute of information processing and decision making, University of Haifa, Israel
2015-2020	Presidential fellowship for outstanding PhD candidates; University of Haifa
2010	Dean's award for academic excellence; University of Haifa
2009 *and* 2010	The 100's club, award for academic excellence; Academic Reserve, IDF

MISCELLANEOUS AND NOTEABLE ACHIEVEMENTS

2023	Participated in a fully funded 3-day code sprint for contributors to PsychoPy/PsychoJS (personally invited by organizers); University of Nottingham, UK
2022-present	Contributed to multiple open source software projects (bugfixes, implementing new features and improving documentation)
2021-2022	Publication of two beta-version open source packages for Python - robusta (statistical hypothesis testing using R) and Agas (similarity based pairing of data-series)
2020-2021	Participated in a student project attempting to form an EEG based BCI to be used as communication device for ALS patients; BCI4ALS, BrainStorm IL, Israel
2021	Completed a 3-week summer school in deep learning; Neuromatch-DL

PROFESSIONAL ACADEMIC SERVICE

2016	Member of organizing committee, The 5th Israeli Social Psychology Conference for Graduate Students; University of Haifa, Israel.

CONFERENCE PRESENTATIONS & INVITED TALKS

Talk   **Hemed, E.**, & Eitam, B. (02/2023). Control feedback increases response speed independently of the feedback's goal and task relevance. The 10th Annual conference of Israeli Society for Cognitive Psychology; Acre, Israel.

Poster   **Hemed, E.**, Roth, T., Jaffe-Dax, S., Hel-Or, H., & Eitam, B., (2023). Tracking the development of goal-directed movement. In the 1st Behavioral Data Science Sympostion, Technion, Israel. Available online.

Talk   **Hemed, E.**, Mark-Tavger, I., Hertz, U., Bakbani-Elkayam, S., & Eitam, B. (05/2021). Automatically Controlled: Task Irrelevance Fully Cancels Otherwise Automatic Imitation. 13th Annual Meeting of the Society for the Science of Motivation (SSM); Virtual conference. **Invited to give talk as part of organized symposium ('The role of outcomes in action').**

Poster   **Hemed, E.**, Mark-Tavger, I., Hertz, U., Bakbani-Elkayam, S., & Eitam, B. (02/2021). Automatically Controlled: Task Irrelevance Fully Cancels Otherwise Automatic Imitation. The 8th Annual conference of Israeli Society for Cognitive Psychology (ISCOP); Virtual Conference.

Poster   **Hemed, E.**, Mark-Tavger, I., Hertz, U., Bakbani-Elkayam, S., & Eitam, B. (11/2020). Automatically Controlled: Task Irrelevance Fully Cancels Otherwise Automatic Imitation. 61th Annual meeting of the Psychonomic Society (Psychonomics); Virtual conference.

Poster   **Hemed, E.**, Bakbani-Elkayam, S., Teodorescu, A. R., Yona, L., & Eitam, B. (02/2020). Evaluation of an Action's Effectiveness by the Motor System in a Dynamic Environment; The 7th Annual conference of Israeli Society for Cognitive Psychology (ISCOP); Acre, Israel.

Poster   **Hemed, E.**, Bakbani-Elkayam, S., Teodorescu, A. R., Yona, L., & Eitam, B. (02/2020). Evaluation of an Action's Effectiveness by the Motor System in a Dynamic Environment; 8th international meeting of the Integrated Brain and Behavior Research Center (IBBRC); University of Haifa, Israel.

Poster   **Hemed, E.**, Bakbani-Elkayam, S., Teodorescu, A. R., Yona, L., & Eitam, B. (11/2019). Evaluation of an Action's Effectiveness by the Motor System in a Dynamic Environment; 60th Annual Meeting of the Psychonomic Society; Montreal, Canada. **Submission won graduate travel award.**

Poster   **Hemed, E**., Karsh, N., & Eitam, B. (11/2018). Action Effectiveness as Seen from Within (and out) of The Motor System; 59th Annual Meeting of the Psychonomic Society; New-Orleans, Louisiana, USA.

Talk   Karsh, N., **Hemed, E.**, Nafcha, O., & Eitam, B. (02/2018). Vying for Action: Outcomes Dominate Control. The 5th Conference on Cognition Research of the Israeli Society for Cognitive Psychology; Acre, Israel.

Talk   **Hemed, E.**, Karsh, N., Mark-Tavger, I., & Eitam, B. (02/2018). Evidence for strictly motor system-based 'Judgement of Agency'. The 5th Conference on Cognition Research of the Israeli Society for Cognitive Psychology; Acre, Israel.

Talk   **Hemed, E.**, Karsh, N., Mark-Tavger, I., & Eitam, B. (12/2017). Evidence for strictly motor system-based 'Judgement of Agency'. The 6th Israeli Social Psychology Conference for Graduate Students; Interdisciplinary Center Herzliya, Israel.

Poster   **Hemed, E.**, Karsh, N., Mark-Tavger, I., & Eitam, B. (12/2017). Evidence for strictly motor system-based 'Judgement of Agency'. Studying Complex Behavior, Weizmann Institute, Israel.

Poster   Pansky, A., & **Hemed, E.** (08/2017). False Memories: The Downside of Gender Expertise. 125th annual convention of the American Psychological Association; Washington DC, USA.

Poster   **Hemed, E.,** Karsh, N., & Eitam., B. (02/2017). The effect of frequency and contingency of control and outcome feedback on action-selection. The 4th Conference on Cognition Research of the Israeli Society for Cognitive Psychology; Acre, Israel.

Talk   **Hemed, E.** (04/2016). The function of Mentally imagined and perceptual events as control feedback indicators; Embodied Cognition Workshop. University of Potsdam, Germany.

TECHNICAL SKILLS AND FRAMEWORKS

Behavioral Experiment Frameworks	PsychoPy (including PsychoJS and Pavlovia); PsychToolbox; MediaLab/DirectRT
Data Related Frameworks	Python; Stata; R; JASP; SPSS
Misc.	Git; Building and publishing Python packages (testing, environment configuration, documentation generation, etc.);
Misc. (some experience with)	Arduino; OpenBCI products; Docker