

ROTEM DAN

McLean Hospital
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ACADEMIC APPOINTMENTS

9/2020-present Postdoctoral Research Fellow
Laboratory for Affective and Translational Neuroscience
Center for Depression, Anxiety and Stress Research
McLean Hospital
Department of Psychiatry, Harvard Medical School
Mentor: Diego A. Pizzagalli, Ph.D.

1/2020-8/2020 Research Associate
School of Pharmacy, Faculty of Medicine
The Hebrew University of Jerusalem
Mentors: Marta Weinstock-Rosin, Ph.D. and Gadi Goelman, Ph.D.

EDUCATION

2013-2019 Ph.D., Computational Neuroscience, Edmond and Lily Safra Center for Brain Sciences (ELSC), The Hebrew University of Jerusalem
Advisors: Gadi Goelman, Ph.D. and Omer Bonne, M.D.
Dissertation: "Emotion and neuropsychiatric disorders: interplay and neural organization".

2011-2013 M.Sc., Computational Neuroscience, Edmond and Lily Safra Center for Brain Sciences (ELSC), The Hebrew University of Jerusalem

2007-2010 B.Sc., Physics and Cognitive Sciences, The Hebrew University of Jerusalem

HONORS & AWARDS

2020 The Hebrew University Post-Doctoral Scholarship Program for Women
2020 Jerusalem Brain Community Bridging Post-Doctoral Scholarship
2019 Israel National Institute for Psychobiology Travel Grant
2019 Department of Neurology, Hadassah Medical Center: Best Abstract Award
2019 Jerusalem Brain Community Travel Grant
2018 Israel Ministry of Science and Technology Travel Grant
2017 Israel Association of University Women Scholarship
2017-2018 Israel Society for Biological Psychiatry Clinical Fellowship for Researchers
2016 Israel National Institute for Psychobiology Travel Grant
2016 Edmond and Lily Safra Center for Brain Sciences Travel Grant
2016 Israel Society for Biological Psychiatry: Best Poster Award
2014 Edmond and Lily Safra Center for Brain Sciences: Prize for Outstanding Academic Performance During M.Sc. Studies
2011-2016 Alice and Jack Ormut Scholarship, Edmond and Lily Safra Center for Brain Sciences
2008-2010 Dean's List, Faculty of Natural Sciences, Hebrew University

2008 Department of Cognitive Sciences, Hebrew University: Prize for Outstanding Academic Performance

TEACHING & MENTORING

2016-2019 Analytical methods for Cognitive Sciences, Department of Cognitive Sciences, The Hebrew University of Jerusalem

2016-2018 Alpha program at The Hebrew University: mentoring gifted high school students in conducting academic scientific research

*National prize for students for best poster presentation

PUBLICATIONS

1. Moria Azoulay*, Inbal Reuveni*, **Rotem Dan***, Gadi Goelman, Ronen Segman, Omer Bonne, Laura Canetti (2020). Childhood trauma and premenstrual symptoms: the role of emotion regulation. *Child Abuse & Neglect*, 108: 104637
2. **Rotem Dan***, Inbal Reuveni*, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne (2020). Trait-related changes in brain network topology in premenstrual dysphoric disorder. *Hormones and Behavior*, 124: 104782.
3. **Rotem Dan**, Filip Růžička, Ondřej Bezdíček, Jan Roth, Evžen Růžička, Josef Vymazal, Gadi Goelman, Robert Jech (2019). Impact of dopamine and cognitive impairment on neural reactivity to facial emotion in Parkinson's disease. *European Neuropsychopharmacology*, 29: 1258-1272.
4. Gadi Goelman, **Rotem Dan**, Gabriela Stöbel, Heike tost, Andreas Meyer-Lindenberg, Edda Bilek (2019). Bidirectional signal exchanges and their mechanisms during joint attention interaction – a hyperscanning fMRI study. *NeuroImage*, 198:242-254.
5. **Rotem Dan**, Laura Canetti, Tarek Keadan, Ronen Segman, Marta Weinstock, Omer Bonne, Inbal Reuveni, Gadi Goelman (2019). Sex differences during emotion processing are dependent on the menstrual cycle phase. *Psychoneuroendocrinology*, 100:85-95.
6. Gadi Goelman, **Rotem Dan**, Tarek Keadan (2018). Characterizing directed functional pathways in the visual system by nonlinear coherence of fMRI data. *Scientific Reports*, 8:16362.
7. **Rotem Dan**, Filip Růžička, Ondřej Bezdíček, Evžen Růžička, Jan Roth, Josef Vymazal, Gadi Goelman, Robert Jech (2017). Separate neural representations of depression, anxiety and apathy in Parkinson's disease. *Scientific Reports*, 7:12164.
8. Gadi Goelman, **Rotem Dan**, Filip Růžička, Ondřej Bezdíček, Evžen Růžička, Jan Roth, Josef Vymazal, Robert Jech (2017). Frequency-phase analysis of resting-state functional MRI. *Scientific Reports*, 7:43743.
9. Gadi Goelman, **Rotem Dan** (2017). Multiple-region directed functional connectivity based on phase delays. *Human Brain Mapping*, 38:1374-1386.
10. Inbal Reuveni, **Rotem Dan**, Ronen Segman, Ron Evron, Gadi Goelman, Omer Bonne, Laura Canetti (2016). Emotional regulation difficulties and premenstrual symptoms among Israeli students. *Archives of Women's Mental Health*, 19:1063.

WORKING PAPERS

1. Gadi Goelman, **Rotem Dan**, Filip Růžička, Ondřej Bezdíček, Robert Jech. Identifying changes in sensorimotor directed connectivity between controls and Parkinson's disease patients. *Under revision*
2. Aron Mirman, Atira Bick, Carmel Kalla, Laura Canetti, Ronen Segman, **Rotem Dan**, Ariel Ben Yehuda, Netta Levin, Omer Bonne. The imprint of childhood adversity on emotional processing in high functioning young adults. *Under review*
3. **Rotem Dan**, Marta Weinstock-Rosin, Gadi Goelman. Emotions as dynamic configurations of functional brain networks. *In preparation*

PATENTS

Gadi Goelman and Rotem Dan. Multiple-region functional and effective connectivity MRI.
62/420245

CONFERENCE ORAL PRESENTATIONS

- 2020 ELSC annual conference. "Emotions as dynamic configurations of functional brain networks"
- 2019 Society for Neuroscience (SfN), Chicago, USA – nanosymposium. "Modular segregation and integration of functional brain networks of emotion"
- 2019 Israeli Human Neuroimaging annual conference. "Disrupted network topology in premenstrual dysphoric disorder"
- 2019 Hadassah Neurology annual conference. "Impact of dopamine and cognitive impairment on neural reactivity to facial emotion in Parkinson's disease"
**Best abstract award*
- 2017 Israel Society for Biological Psychiatry. "Gender differences in the neural encoding of emotion"
- 2016 Israel Society for Neuroscience. "Neural representations of non-motor neuropsychiatric symptoms in Parkinson's disease"

CONFERENCE POSTER PRESENTATIONS

(first author only)

- 2020 **Rotem Dan**, Marta Weinstock, Gadi Goelman. Emotions as dynamic configurations of functional brain networks. Integrated Brain and Behavior Research Center, Israel.
- 2020 **Rotem Dan**, Marta Weinstock, Gadi Goelman. Modular segregation and integration of functional brain networks of emotion. National Institute for Psychobiology, Israel.
- 2020 **Rotem Dan**, Marta Weinstock, Gadi Goelman. Modular segregation and integration of functional brain networks of emotion. Israel Society for Neuroscience, Israel.
- 2019 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. Disrupted network topology in premenstrual dysphoric disorder is related to childhood maltreatment and emotion regulation. Organization of Human Brain Mapping, Rome, Italy.

- 2018 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. Disrupted network topology in premenstrual dysphoric disorder is related to childhood maltreatment and emotion regulation. Israel Society for Neuroscience, Israel.
- 2017 **Rotem Dan**, Laura Canetti, Tarek Keadan, Ronen Segman, Marta Weinstock, Omer Bonne, Inbal Reuveni, Gadi Goelman. Sex differences in neural activity and connectivity during emotion processing are dependent on the menstrual cycle phase. Israel Society for Neuroscience, Israel.
- 2017 **Rotem Dan**, Filip Růžička, Ondřej Bezdíček, Evžen Růžička, Jan Roth, Josef Vymazal, Gadi Goelman, Robert Jech. Separate neural representations of depression, anxiety and apathy in Parkinson's disease. Jerusalem Brain Community, Israel.
- 2017 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. Reduced connectivity and group by menstrual phase interactions in premenstrual dysphoric disorder. National Institute for Psychobiology, Israel.
- 2016 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. Reduced connectivity and group by menstrual phase interactions in premenstrual dysphoric disorder. Organization of Human Brain Mapping, Geneva, Switzerland.
- 2016 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. Reduced connectivity and group by menstrual phase interactions in premenstrual dysphoric disorder. Jerusalem Brain Community, Israel.
- 2016 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. Reduced connectivity and group by menstrual phase interactions in premenstrual dysphoric disorder. Israel Society for Biological Psychiatry, Israel.
**best poster award.*
- 2015 **Rotem Dan**, Inbal Reuveni, Laura Canetti, Marta Weinstock, Ronen Segman, Gadi Goelman, Omer Bonne. The emotional brain in premenstrual dysphoric disorder. The Hebrew University Medical School annual conference, Israel.

PROFESSIONAL EXPERIENCE

2010-2011 Data scientist, research team of Peer39

MILITARY SERVICE (COMPULSORY)

2003-2005 Researcher, project manager, and commander, in the research division of the Israeli Intelligence Corps

VOLUNTEER SERVICE

2009-2020 Latet organization, volunteering with Holocaust survivors

MEDIA COVERAGE

13TV (television): <https://youtu.be/9-e0QvU2YwA>

Yedioth Ahronoth (largest Israeli newspaper):

<https://www.ynet.co.il/articles/0,7340,L-5515220,00.html>

Galei Tzahal (radio): "Ma Shekore Machar" with Rami Shani:

<http://tiny.cc/pqt4kz>

Kan Tarbut (radio): "Shlosa Sheyodim"

Hebrew University Podcast

AD HOC REVIEWER

Depression and Anxiety, Psychological medicine

PROFESSIONAL AFFILIATIONS

Organization for Human Brain Mapping (OHBM)

Society for Neuroscience (SFN)

Israel Society for Neuroscience (ISFN)

Israel Society for Biological Psychiatry (ISBP)