

Stanford



Gadi Gilam

Postdoctoral Research Fellow, Anesthesiology, Perioperative and Pain Medicine

Bio

BIO

An experimental psychologist and a neuroscientist - postdoctoral research fellow at the Systems Neuroscience and Pain Laboratory.

My research aims to elucidate the bio-psycho-social mechanisms that underlie affective states such as anger and pain, and how they manifest in health and illness. My overarching goal is to benchmark these mechanisms in order to reduce suffering, and to promote adaptive responding and pro-social behavior.

I combine basic and clinical research in humans from a social, cognitive, and affective neuroscience perspective: incorporating psychological theory with biological constraints, integrating multi-modal/multi-level research methods and analytics, and utilizing behavioral, psychophysiological, neuroimaging, and neuromodulation techniques, as well as psychometric assays and patient-reported outcomes.

HONORS AND AWARDS

- Young Investigators Award, International Society for Research on Aggression (2018)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Tel-Aviv University (2017)
- Master of Arts, Tel-Aviv University (2013)
- Bachelor of Science, Tel-Aviv University (2008)

LINKS

- <https://www.gadigilam.net>: <https://www.gadigilam.net>
- <https://scholar.google.com/citations?user=RvRFhvoAAAAJ&hl=en>: <https://scholar.google.com/citations?user=RvRFhvoAAAAJ&hl=en>
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- <https://github.com/gadigilam>: <https://github.com/gadigilam>
- <https://osf.io/profile/>: <https://osf.io/profile/>

Publications

PUBLICATIONS

- **What Is the Relationship between Pain and Emotion? Bridging Constructs and Communities.** *Neuron*

- Gilam, G., Gross, J. J., Wager, T. D., Keefe, F. J., Mackey, S. C.
2020
- **The Impact of Self-Control Training on Neural Responses following Anger Provocation.** *Social neuroscience*
Beames, J. R., Gilam, G., Schofield, T. P., Schira, M. M., Denson, T. F.
2020
 - **The Decline in Task Performance After Witnessing Rudeness Is Moderated by Emotional Empathy-A Pilot Study.** *Frontiers in psychology*
Gilam, G., Horing, B., Sivan, R., Weinman, N., Mackey, S. C.
2020; 11: 1584
 - **Resting State Functional Connectivity Machine Learning Classification of Chronic Back Pain**
Weber, K. A., Law, C. S., Asher, Y. K., Martucci, K. T., Gilam, G., Lewis, B., Narayan, S., Hastie, T., Wager, T. D., Mackey, S.
WILEY.2019: S266
 - **Negative Affect-Related Factors Have the Strongest Association with Prescription Opioid Misuse in a Cross-Sectional Cohort of Patients with Chronic Pain.** *Pain medicine (Malden, Mass.)*
Gilam, G., Sturgeon, J. A., You, D. S., Wasan, A. D., Darnall, B. D., Mackey, S. C.
2019
 - **The feeling of anger: from brain networks to linguistic expressions.** *Neuroscience and biobehavioral reviews*
Alia-Klein, N., Gan, G., Gilam, G., Bezek, J., Bruno, A., Denson, T. F., Hendler, T., Lowe, L., Mariotti, V., Muscatello, M. R., Palumbo, S., Pellegrini, S., Pietrini, et al
2019
 - **Evaluation of Candidate Items for Severe PTSD Screening for Patients with Chronic Pain: Pilot Data Analysis with IRT Approach.** *Pain practice : the official journal of World Institute of Pain*
You, D. S., Ziadni, M. S., Gilam, G., Darnall, B. D., Mackey, S. C.
2019
 - **Attenuating anger and aggression with neuromodulation of the vmPFC: A simultaneous tDCS-fMRI study.** *Cortex; a journal devoted to the study of the nervous system and behavior*
Gilam, G., Abend, R., Gurevitch, G., Erdman, A., Baker, H., Ben-Zion, Z., Hendler, T.
2018; 109: 156-70
 - **Anger Modulates Influence Hierarchies Within and Between Emotional Reactivity and Regulation Networks** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Jacob, Y., Gilam, G., Lin, T., Raz, G., Hendler, T.
2018; 12: 60
 - **The anger-infused Ultimatum Game: A reliable and valid paradigm to induce and assess anger.** *Emotion (Washington, D.C.)*
Gilam, G., Abend, R., Shani, H., Ben-Zion, Z., Hendler, T.
2018
 - **Tracing the Neural Carryover Effects of Interpersonal Anger on Resting-State fMRI in Men and Their Relation to Traumatic Stress Symptoms in a Subsample of Soldiers** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Gilam, G., Maron-Katz, A., Kliper, E., Lin, T., Fruchter, E., Shamir, R., Hendler, T.
2017; 11: 252
 - **Neural indicators of interpersonal anger as cause and consequence of combat training stress symptoms.** *Psychological medicine*
Gilam, G., Lin, T., FRUCHTER, E., Hendler, T.
2017; 47 (9): 1561-1572
 - **The Human Coparental Bond Implicates Distinct Corticostriatal Pathways: Longitudinal Impact on Family Formation and Child Well-Being.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
Abraham, E., Gilam, G., Kanat-Maymon, Y., Jacob, Y., Zagoory-Sharon, O., Hendler, T., Feldman, R.
2017
 - **Accessible Neurobehavioral Anger-Related Markers for Vulnerability to Post-Traumatic Stress Symptoms in a Population of Male Soldiers** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Lin, T., Gilam, G., Raz, G., Or-Borichev, A., Bar-Haim, Y., Fruchter, E., Hendler, T.

2017; 11

- **The role of oxytocin in modulating interpersonal space: A pharmacological fMRI study** *PSYCHONEUROENDOCRINOLOGY*
Cohen, D., Perry, A., Gilam, G., Maysseless, N., Gonen, T., Hendler, T., Shamay-Tsoory, S. G.
2017; 76: 77-83
- **Deconstructing Anger in the Human Brain.** *Current topics in behavioral neurosciences*
Gilam, G., Hendler, T.
2017; 30: 257-273
- **Common modulation of limbic network activation underlies musical emotions as they unfold** *NEUROIMAGE*
Singer, N., Jacoby, N., Lin, T., Raz, G., Shpigelman, L., Gilam, G., Granot, R. Y., Hendler, T.
2016; 141: 517-529
- **Limbic Activity Modulation Guided by Functional Magnetic Resonance Imaging-Inspired Electroencephalography Improves Implicit Emotion Regulation** *BIOLOGICAL PSYCHIATRY*
Keynan, J. N., Meir-Hasson, Y., Gilam, G., Cohen, A., Jackont, G., Kinreich, S., Ikar, L., Or-Borichev, A., Etkin, A., Gyurak, A., Klovatch, I., Intrator, N., Hendler, et al
2016; 80 (6): 490-496
- **With love, from me to you: Embedding social interactions in affective neuroscience** *NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS*
Gilam, G., Hendler, T.
2016; 68: 590-601
- **Functional connectivity dynamics during film viewing reveal common networks for different emotional experiences** *COGNITIVE AFFECTIVE & BEHAVIORAL NEUROSCIENCE*
Raz, G., Touroutoglou, A., Wilson-Mendenhall, C., Gilam, G., Lin, T., Gonen, T., Jacob, Y., Atzil, S., Admon, R., Bleich-Cohen, M., Maron-Katz, A., Hendler, T., Barrett, et al
2016; 16 (4): 709-723
- **The Dark Side of Gendered Language: The Masculine-Generic Form as a Cause for Self-Report Bias** *PSYCHOLOGICAL ASSESSMENT*
Vainapel, S., Shamir, O. Y., Tenenbaum, Y., Gilam, G.
2015; 27 (4): 1513-1519
- **Neural substrates underlying the tendency to accept anger-infused ultimatum offers during dynamic social interactions** *NEUROIMAGE*
Gilam, G., Lin, T., Raz, G., Azrielant, S., Fruchter, E., Ariely, D., Hendler, T.
2015; 120: 400-411
- **Portraying emotions at their unfolding: A multilayered approach for probing dynamics of neural networks** *NEUROIMAGE*
Raz, G., Winetraub, Y., Jacob, Y., Kinreich, S., Maron-Katz, A., Shaham, G., Podlipsky, I., Gilam, G., Soreq, E., Hendler, T.
2012; 60 (2): 1448-1461
- **The Envious Brain: The Neural Basis of Social Comparison** *HUMAN BRAIN MAPPING*
Dvash, J., Gilam, G., Ben-Ze'ev, A., Hendler, T., Shamay-Tsoory, S. G.
2010; 31 (11): 1741-1750