Paul B. Sharp

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Academic Appointments	
Bar-Ilan University Senior Lecturer (Assistant Professor Equivalent)	October 2024-
Past Employment	
Yale University Postdoctoral Fellow	August 2023-Current
Alena Senior Research Scientist	December 2022-May 2023
Hebrew University of Jerusalem Fulbright Postdoctoral Scholar	2021-March 2023
Max Planck UCL Centre for Computational Psychiatry and Ageing Research POSTDOCTORAL FELLOW	2019-2021
Education	
University of North Carolina at Chapel Hill PHD PSYCHOLOGY AND NEUROSCIENCE	2016-2019
University of Illinois at Urbana-Champaign MA (CLINICAL/COMMUNITY PSYCHOLOGY PHD PROGRAM)	2013-2016
Temple University, Honors College BA PSYCHOLOGY AND POLITICAL SCIENCE, Magna Cum Laude	2010-2013
Awards, Fellowships, & Grants	
2022- eLife Early-Career Reviewer , eLife 2021-2023 Fulbright Postdoctoral Fellowship , Fulbright Foundation 2015-2016 Teaching Excellence , UIUC	\$ 95,000
2015 Departmental Grant , University of Illinois at Urbana-Champaign 2015 NIMH fMRI Training , University of Michigan	\$ 6,000
 Kanfer Fellowship, University of Illinois at Urbana-Champaign American Mathematics Competition Honor Roll, MAA 	\$ 8,000
Publications	

PUBLISHED

Sharp, PB, Eldar, E. Humans adaptive deploy forward and backward prediction. *Nature Human Behaviour.* 2022 IF=29.9, R 2022 = Psychology: 10/1710 (Q1); Neuroscience: 7/756 (Q1).

Solomyak, L, **Sharp PB**, Eldar E. Training diversity promotes absolute-value-guided choice. (2022). *PLOS Computational Biology*.

2022 IF=4.78, R 2022 Neuroscience: 74/756 (Q1)

Sharp PB, Fradkin I, Eldar E. Hierarchical inference as a source of human biases. (2022). *Coanitive. Affective and Behavioral Neuroscience.*

2022 IF=2.9, R 2022 = Neuroscience: 211/756 (Q1)

Sharp PB, Russek, E., Huys, Q., Dolan RJ, Eldar E. Humans perseverate on punishment avoidance goals in multigoal reinforcement learning. (2022). *eLife*.

2022 IF=8.71, R 2022 = Neuroscience: 15/756 (Q1)

Sharp PB, Dolan RJ, Eldar E. Disrupted state transition learning as a computational marker of compulsivity. (2021). *Psychological Medicine*.

2022 IF =6.9, R 2022 = Psychology: 68/1710 (Q1)

Sharp PB, Do KT, Lindquist KA, Prinstein MJ, Telzer EH. Cognitive control deployment is flexibly modulated by social value in early adolescence. (2021). *Developmental Science*.

2022 IF=4.94, R 2022 = Psychology: 119/1710 (Q1)

Thomas, J.G., **Sharp PB**, Niznikiewicz M, Heller W. Beyond the Placebo: A Double-Blind Randomized Control Trial of Expectation as a Mechanism of Therapeutic Change. (2021). *Psychotherapy Research*.

2022 IF=4.11, R 2022 = Psychology: 278/1710 (Q1)

Sharp PB, Miller, GA, Dolan RJ, Eldar E. Towards formal models of psychopathological traits that explain symptom trajectories. (2020). *BMC Medicine*.

2022 IF=9.3, R 2022 = Medicine: 232/10965 (Q1)

Do KT*, **Sharp PB***, Telzer EH (2020). Modernizing conceptions of valuation and cognitive control deployment in adolescent risk taking. *Current Directions in Psychological Science*.

2022 IF =7.86, R 2022 = Psychology: 35/1710 (Q1)

Sharp PB, Eldar E. Computational models of anxiety: Nascent efforts and future directions. (2019). *Current Directions in Psychological Science*.

2022 IF =7.86, R 2022 = Psychology: 35/1710 (Q1)

Thomas JG , **Sharp PB**. Mechanistic science: A new approach to comprehensive psychopathology research that relates psychological and biological phenomena. (2019). *Clinical Psychological Science*.

2022 IF=7.21, R 2022 = Psychology: 94/1710 (Q1)

Sharp PB, Miller, GA. Reduction and autonomy in psychology and neuroscience: A call for pragmatism. (2019). *Journal of Theoretical and Philosophical Psychology*.

2022 IF=1.3, R 2022 = Psychology: 969/1710 (Q3); Philosophy: 120/733 (Q1)

Sharp PB, Sutton BP, Paul EJ, Sherepa N, Cohen NJ, Hillman CH, Kramer AF, Prakash R, Heller W, Telzer EH, Barbey AK. (2018). Mindfulness training induces structural connectome changes in insula networks. *Scientific Reports*. **2022 IF=4.6**, **R 2022 = Multidisciplinary: 13/144 (Q1)**

Sharp PB, Telzer EH. (2017). Structural connectomics of anxious arousal in early adolescence: Translating clinical and ethological findings. *NeuroImage: Clinical*.

2022 IF=4.2, R 2022 = Neurosience: 128/756 (O1)

Sharp PB, Heller W, Telzer EH. (2017). Selective neural sensitivity to familial threat in adolescents with weak family bonds. *Social Neuroscience*.

2022 IF=2.0, R 2022 = Neuroscience: 438/756 (Q3)

Sharp PB, Miller GA, Heller W. (2015). Transdiagnostic dimensions of anxiety: Neural mechanisms, executive functions, and new directions. *International Journal of Psychophysiology*.

2022 IF=2.9, R 2022 = Psychology: 524/1710 (Q2)

IN PREP

Sharp, PB, Eldar, E. Humans gradually learn to optimally delay planning.

Bedder, R. Hitchcock PF, Sharp, PB. Computations of Negative Repetitive Thinking.

Sharp, PB, Flannery, JS, Do, KT, Telzer, EH. Effects of social media deprivation on computations of mood.

Presentations _____

CONFERENCE WORKSHOPS

- Co-Chair. Repetitive Negative Thinking and Simulation in Natural and Artificial Cognition. The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making, Brown University, Providence, RI, June 2022.
- Co-Chair. Constructing riskier tests of theory, linking psychological and biological phenomena, and introducing a new mechanistic philosophy of science. Society for Psychophysiological Research, Vienna, Austria, Fall 2017.

CONFERENCE PAPERS

- Sharp, PB, Eldar, E. *Predecessor representation for efficient backwards planning*. The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making, Brown University, Providence, RI, June 2022.
- Solomyak, L., Sharp, P., Eldar, E. *Training diversity promotes absolute-value-guided choice*. The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making, Brown University, Providence, RI, June 2022.

INVITED TALKS

- August 2022. *Understanding worry using planning algorithms*. Laboratory of Neural Computation and Cognition (Michael J. Frank Lab), Brown University, RI
- June 2022. Using a science of planning to understand the dynamics of worry. The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making
- Feburary 2022. Efficient planning algorithms humans use to pursue multiple goals. Israeli Society for Cognitive Psychology
- September 2021. Computations of Chronic worry: Dysfunction in Multigoal Learning and Planning Efficiency. Society for Research in Psychopathology
- March 2021. Neuroscience only leads to understanding with computation: A brief history of efforts to understand human anxiety. Lee lab. Virginia Tech, VA.
- December 2019. How task-irrelevant emotion affects model-building: Implications for basic learning processes and psychopathology. Tel-Aviv University. Bar-Haim lab. 2019.
- October 2019. Computations in human anxiety: New developments in a nascent field, National Institute of Mental Health, Pine lab. Bethesda, MD.
- February 2018. *Current Issues in Developmental Science: Replicability Representation*. UNC-Duke Annual Research Meeting in Developmental Psychology. Chapel Hill, NC.
- March 2015. The neuroscience of mindfulness. Teachers of Champaign. Illinois.

CONFERENCE PRESENTATIONS

- Effects of emotional cues on state transition learning. Sharp PB, Dolan, RJ, Eldar E. Society of Biological Psychiatry. Spring, 2020.
- Testing a computational model of anxious mood in adolescence. Sharp PB, Telzer EH, Eldar E. Developmental Cognitive Neuroscience. Summer, 2018.
- Structural Connectomics of Affective Disturbances in Adolescence. Sharp PB, Heller W, Telzer EH Society of Biological Psychiatry. Spring, 2017.
- Reduced habituation to familial threat in adolescents with low family connectedness: A Novel use of MVPA. Sharp PB, Telzer EH. Society for Affective Science. Spring, 2016.
- Trait negative affect and executive function in childhood: Neural mechanisms and mindfulness. Sharp PB, Menon S, Khan F, Davis MM, Weldon A, Sutton, BP, Heller W. Society for Research in Psychopathology. Spring, 2015.

Teaching		
2018-2019	Intro to Python, Lead Instructor, Telzer Lab	UNC
Spring 2017	Intro to Neuroscience, Teaching Assistant	UNC
2015-2016	Abnormal Psychology, Lead Instructor	UIUC
Mento 2021-	Noa Peled, Psychology Undergraduate, Hebrew University of Jerusalem	
2021-		
2021-2022	Aviad Aharon , Computer Science Undergraduate, Hebrew University of Jerusalem Lena Gorina , PhD Research, Hebrew University of Jerusalem	
2018-2019	Sinclaire Scales, Psychology Undergraduate Thesis, UNC at Chapel Hill	
2017	Charles Wright, Psychology Undergraduate, UNC at Chapel Hill	

SERVICE AND OUTREACH

Cientifico Latino GSMI Mentor, 2021, UNC Science Expo Organizer and Educator, 2018.

AD HOC REVIEWER

Nature Communications, PLOS Computational Biology, Journal of Neuroscience, Neuroscience and Biobehavioral Reviews, Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, Behavior Research and Therapy, Developmental Science, Clinical Psychology Review, Cognitive Affective and Behavioral Neuroscience, Brain Stimulation

PROFESSIONAL MEMBERSHIPS

Reinforcement Learning and Decision Making, Cognitive Computational Neuroscience, Society of Biological Psychiatry, Society for Research in Psychopathology