

AMITAI SHENHAV

CURRICULUM VITAE

Department of Cognitive, Linguistic, and Psychological Sciences

Brown University

190 Thayer St.

Providence, RI 02912

Tel: (401) 863-5198

Email: amitai_shenhav@brown.edu

Website: www.shenhavlab.org

Academic Appointments

- 2022-Present Associate Professor, Brown University
Department of Cognitive, Linguistic, and Psychological Sciences
Carney Institute for Brain Science
- 2016-2022 Assistant Professor, Brown University
Department of Cognitive, Linguistic, and Psychological Sciences
Carney Institute for Brain Science
- 2012-2016 C.V. Starr Postdoctoral Fellow, Princeton University

Education

- 2007-2012 Ph.D., Harvard University, Psychology
Dissertation: “Neural Circuits at the Intersection of Feeling and Deciding”
- 2007-2009 A.M., Harvard University, Psychology
- 2001-2005 B.A., University of California, Berkeley, Cognitive Science (Neuroscience Concentration)
Honors Thesis: “Cholinergic Modulation of Top-Down Visuospatial Attention in the Human Brain.” *Designation:* Highest Honors.

Selected Honors and Awards

- 2022-Present Fellow, Scialog, Research Corporation for Science Advancement
- 2020-Present Fellow, Association for Psychological Science (APS)
- 2021 Society for Neuroeconomics Early Career Award
- 2021 Cognitive Neuroscience Society Young Investigator Award
- 2020 APS Janet Taylor Spence Award for Transformative Early Career Contributions
- 2019-21 Alfred P. Sloan Foundation Research Fellowship in Neuroscience
- 2017 Association for Psychological Science Rising Star Award
- 2012-16 C.V. Starr Foundation Postdoctoral Fellowship
- 2011-12 Sackler Scholar Programme in Psychobiology Fellowship
- 2011 Harvard Mind, Brain, Behavior Graduate Student Award
- 2010 Harvard Derek Bok Center Teaching Award
- 2009 Cognitive Neuroscience Society Graduate Students Present Award
- 2008-11 National Science Foundation Graduate Research Fellowship

Current Grants

- 2024-27 NSF Collaborative Research in Computational Neuroscience (CRCNS) Award 2309022
Role: Principal Investigator

- Neural and computational mechanisms of flexible goal-directed decision making*
Total costs: \$812,227
- 2021-26 NSF Faculty Early Career Development (CAREER) Award 2046111
Role: Principal Investigator
The vital role of motivation in cognition
Total costs: \$794,090
- 2021-25 NIH/NIMH R01MH124849
Role: Principal Investigator
Neural and computational mechanisms of motivation and cognitive control
Total costs: \$1,991,667
- 2022-27 NIH/NIMH P50MH106435 Conte Center
Role: Co-Principal Investigator, Neurocomputational Modeling Core (Center PI: Suzanne Haber)
Neurocircuitry of OCD: Effects of Modulation
Total sub-award costs: \$1,130,312
- 2020-25 NIH/NIDDK R01DK120597
Role: Co-Investigator
Executive Functioning, Weight Trajectories, and Loss of Control Eating in Children with Overweight/Obesity: A Prospective Study
Total sub-award costs: \$603,511

Recently Completed Grants

- 2020-23 NIH/NIMH R21MH122863
Role: Co-Principal Investigator
Computationally modeling the failure of effort to become a secondary reinforcer in schizophrenia
Total costs: \$190,125
- 2019-23 Alfred P. Sloan Foundation Research Fellowship in Neuroscience
Role: Principal Investigator
Direct costs: \$70,000
- 2020-22 Brown Office of the Vice President for Research Seed Award
Role: Principal Investigator
Dissociating neurocomputational mechanisms underlying positive and negative motivations for cognitive effort persistence
Direct costs: \$49,000
- 2019-22 Scientific Research Network on Decision Neuroscience and Aging Pilot Grant
Role: Principal Investigator
Mechanisms of motivation and cognitive control in healthy older adults
Direct costs: \$30,000
- 2019-21 Carney Institute for Brain Science Innovation Award
Role: Co-Principal Investigator
Testing a novel neurocomputational account of the socioeconomically driven achievement gap
Direct costs: \$132,000
- 2017-21 NIH/NIGMS P20GM103645 Center of Biomedical Research Excellence
Role: Project Leader
Mechanisms of cognitive interference from value-based choice conflict
Direct costs: \$755,000

Peer-Reviewed Articles († denotes trainee, * denotes shared authorship)

1. †Ritz, H. & **Shenhav, A.** (in press). Humans reconfigure target and distractor processing to address distinct task demands. *Psychological Review*.
2. †Grahek, I, †Frömer, R, †Prater Fahey, M., **Shenhav, A.** (2023). Learning when effort matters: Neural dynamics underlying updating and adaptation to changes in performance efficacy. *Cerebral Cortex* 33(5): 2395–2411.
3. †Frömer, R. & **Shenhav, A.** (2022). Filling the gaps: Cognitive control as a critical lens for understanding mechanisms of value-based decision-making. *Neuroscience and Biobehavioral Reviews* 134: 104483.
4. Fontanesi, L., ***Shenhav, A.**, *Gluth, S. (2022). Disentangling choice value and choice conflict in sequential decisions under risk. *PLOS Computational Biology* 18(10): e1010478.
5. †Rmus, M., †Ritz, H., Hunter, L.E., *Bornstein, A.M., ***Shenhav, A.** (2022). Humans can navigate complex graph structures acquired during latent learning. *Cognition* 225: 105103.
6. †Ritz, H., †Leng, X., **Shenhav, A.** (2022). Cognitive control as a multivariate optimization problem. *Journal of Cognitive Neuroscience* 34(4): 569-591.
7. Kane, G.A., James, M.H., **Shenhav, A.**, Daw, N.D., Cohen, J.D., Aston-Jones, G. (2022). Rat anterior cingulate cortex continuously signals decision variables in a patch foraging task. *Journal of Neuroscience* 49(29): 5730-5744.
8. †Yee, D., †Leng, X., **Shenhav, A.**, Braver, T. (2022). Aversive Motivation and Cognitive Control. *Neuroscience and Biobehavioral Reviews* 133: 104493.
9. †Leng, X., †Yee, D., †Ritz, H., **Shenhav, A.** (2021). Dissociable influences of reward and punishment on adaptive cognitive control. *PLOS Computational Biology* 17(12), e1009737.
10. Collins, A.G.E. & **Shenhav, A.** (2021). Advances in modeling learning and decision-making in neuroscience. *Neuropsychopharmacology* 47: 104-118.
11. **Shenhav, A.**, †Prater Fahey, M., †Grahek, I. (2021). Decomposing the motivation to exert mental effort. *Current Directions in Psychological Science* 30(4): 307-314.
12. *†Frömer, R, *Lin, H., †Dean Wolf, C.K., Inzlicht, M., **Shenhav, A.** (2021). Expectations of reward and efficacy guide cognitive control allocation. *Nature Communications* 12: 1030.
13. †Bustamante, L., Lieder, F., Musslick, S., **Shenhav, A.**, Cohen, J.D. (2021). Learning to Overexert Cognitive Control in a Stroop Task. *Cognitive, Affective, and Behavioral Neuroscience*.
14. †Grahek I., Musslick S., **Shenhav A.** (2020). A computational perspective on the roles of affect in cognitive control. *International Journal of Psychophysiology* 151: 25-34.
15. Sadeghiyeh H., Wang S., Alberhasky M.R., Kylo H.M., **Shenhav A.**, Wilson, R.C. (2020). Temporal discounting correlates with directed exploration but not random exploration. *Scientific Reports* 10(1): 1-10.
16. †Frömer, R., †Dean Wolf, C.K., **Shenhav, A.** (2019). Goal congruency dominates reward value in accounting for behavioral and neural correlates of value-based decision-making. *Nature Communications* 10(1): 4926.
17. Wilson R.C., **Shenhav A.**, Straccia M.A., Cohen J.D. (2019). The Eighty Five Percent Rule for optimal learning. *Nature Communications* 10(1): 4646.
18. Kane G. A., Bornstein A. M., **Shenhav A.**, Wilson R. C., Daw N. D., Cohen J. D. (2019). Rats exhibit similar biases in foraging and intertemporal choice tasks. *eLife*, 8:e48429.
19. FeldmanHall O., **Shenhav A.** (2019). Resolving uncertainty in a social world. *Nature Human Behavior* 3: 426-435.
20. †Grahek I., **Shenhav A.**, Musslick, S., Krebs RM, Koster E.H.W. (2019). Motivation and cognitive control in depression. *Neuroscience & Biobehavioral Reviews* 102: 371-381.

21. *Miller K.J., *Shenhav A., Ludvig E.A. (2019). Habits without values. *Psychological Review* 126(2): 292-311. *Shared first authorship
22. Shenhav A., Karmarkar U.R. (2019). Dissociable components of the reward circuit are involved in appraisal versus choice. *Scientific Reports* 9(1958): 1-12.
23. Shenhav A., †Dean Wolf C.K., Karmarkar U.R. (2018). The evil of banality: When choosing between the mundane feels like choosing between the worst. *Journal of Experimental Psychology: General* 147(12): 1892-1904.
24. Zacharopoulos G., Shenhav A., Constantino S., Maio G.R., Linden D.E.J. (2018). The effect of self-focus on personal and social foraging behavior. *Social, Cognitive, and Affective Neuroscience: 13(9)*: 967-965.
25. †Ritz H., Nassar M., Frank M.J., Shenhav A. (2018). A control theoretic model of adaptive behavior in dynamic environments. *Journal of Cognitive Neuroscience* 30(10): 1405-1421.
26. Shenhav A., Straccia M.A., Musslick S., Cohen J.D., Botvinick M.M. (2018). Dissociable neural mechanisms track evidence accumulation for selection of attention versus action. *Nature Communications* 9(1): 2485.
27. Lieder F., Shenhav A., Musslick S., Griffiths T.L. (2018). Rational metareasoning and the plasticity of cognitive control. *PLOS Computational Biology* 14(4): e1006043.
28. Inzlicht M., Shenhav A., Olivola C.Y. (2018). The effort paradox: Effort is both costly and valued. *Trends in Cognitive Sciences* 22(4): 337-349.
29. Shenhav A., Musslick S., Lieder F., Kool W., Griffiths T.L., Cohen J.D., Botvinick M.M. (2017). Toward a rational and mechanistic account of mental effort. *Annual Reviews of Neuroscience* 40: 99-124.
30. Shenhav A., Rand D.G., Greene J.D. (2017). The relationship between intertemporal choice and following the path of least resistance across choices, preferences, and beliefs. *Judgment & Decision Making* 12(1): 1-18.
31. Kane, G., Vazey, E., Wilson, R., Shenhav, A., Daw, N., Aston-Jones, G., and Cohen, J.D. (2017). Increased locus coeruleus tonic activity causes disengagement from a patch foraging task. *Cognitive, Affective, and Behavioral Neuroscience* 17(6): 1073-1083.
32. Srivastava V., Feng S., Cohen, J.D., Leonard N.E., Shenhav A. (2017). A martingale analysis of first passage times of time-dependent Wiener diffusion models. *Journal of Mathematical Psychology* 77: 94-110.
33. Shenhav A., Botvinick M.M., Cohen J.D. (2016). Dorsal anterior cingulate cortex and the value of control. *Nature Neuroscience* 19(10): 1286-1291.
34. Shenhav A., Straccia M.A., Botvinick M.M., Cohen J.D. (2016). Dorsal anterior cingulate and ventromedial prefrontal cortex have inverse roles in both foraging and economic choice. *Cognitive, Affective, and Behavioral Neuroscience* 16(6): 1127-1139.
35. Trapp S., Shenhav A., Bitzer S., Bar M. (2015). Human preferences are biased towards associative information. *Cognition and Emotion* 29(6): 1054-1068.
36. Shenhav A., Straccia M.A., Cohen J.D., Botvinick M.M. (2014). Anterior cingulate engagement in a foraging context reflects choice difficulty, not foraging value. *Nature Neuroscience* 17(9): 1249-1254.
37. Shenhav A. & Buckner R.L. (2014). Neural correlates of dueling affective reactions to win-win choices. *Proceedings of the National Academy of Sciences* 111(30): 10978-10983.
38. Shenhav A. & Greene J.D. (2014). Integrative moral judgment: Dissociating the roles of the amygdala and ventromedial prefrontal cortex. *Journal of Neuroscience* 34(13): 4741-4749.
39. Shenhav A. & Mendes W.B. (2014). Aiming for the stomach and hitting the heart: dissociable triggers and sources for disgust reactions. *Emotion* 14(2): 301-309.
40. Shenhav A., Botvinick M.M., Cohen J.D. (2013). The expected value of control: an integrative theory of anterior cingulate cortex function. *Neuron* 79(2): 217-240.

41. **Shenhav A.**, Barrett L.F., Bar M. (2013). Affective value and associative processing share a cortical substrate. *Cognitive, Affective, and Behavioral Neuroscience* 13: 46-59.
42. Brunye T. T., Gagnon S. A., Paczynski M., **Shenhav A.**, Mahoney C. R., & Taylor H. A. (2013). Happiness by association: generating broad associations promotes positive affect. *Cognition* 127 (1): 93-98.
43. ***Shenhav A.**, *Rand D.G., Greene J.D. (2012). Divine intuition: cognitive style influences belief in God. *Journal of Experimental Psychology: General* 141(3): 423-428.
44. **Shenhav A.** & Greene J.D. (2010). Moral judgments recruit domain-general valuation mechanisms to integrate representations of probability and magnitude. *Neuron* 67(4): 667-677.
45. Silver M.A., **Shenhav A.**, D'Esposito M. (2008). Cholinergic enhancement reduces spatial spread of visual responses in human early visual cortex. *Neuron* 60(5): 904-914.

Manuscripts Under Review or in Revision († denotes trainee, * denotes shared authorship)

1. *†Grahek, I., *†Leng, X., Musslick, S., & **Shenhav, A.** Control adjustment costs limit goal flexibility: Empirical evidence and a theoretical account. Preprint: <https://doi.org/10.1101/2023.08.22.554296>
2. †Leng, X., †Frömer, R., Summe, T., **Shenhav, A.** Mutual inclusivity improves decision-making by smoothing out choice's competitive edge. Preprint: <https://doi.org/10.1101/2023.05.12.540529>
3. *†Ritz, H., *†Frömer, R., **Shenhav, A.** Phantom controllers: Misspecified models create the false appearance of adaptive control during value-based choice. Preprint: <https://doi.org/10.1101/2023.01.18.524640>
4. †Ritz, H. & **Shenhav, A.** Orthogonal neural encoding of targets and distractors supports multivariate cognitive control. Preprint: <https://doi.org/10.1101/2022.12.01.518771>
5. *†Frömer, R., *Callaway, F., Griffiths, T., **Shenhav, A.** Considering what we know and what we don't know: Expectations and confidence guide value integration in value-based decision-making. Preprint: <http://doi.org/10.31234/osf.io/2sqyt>
6. †Frömer, R., Nassar, M.R., Ehinger, B.V., **Shenhav, A.** Common neural choice signals emerge artifactually amidst multiple distinct value signals. Preprint: <https://doi.org/10.1101/2022.08.02.502393>
7. Bustamante, L.A., Oshinowo, T., Lee, J.R., Tong, E., Burton, A.R., **Shenhav, A.**, Cohen, J.D., Daw, N.D. Effort Foraging Task reveals positive correlation between individual differences in the cost of cognitive and physical effort in humans and relationship to self-reported motivation and affect. Preprint: <https://doi.org/10.1101/2022.11.21.517394>
8. †Frömer, R. & **Shenhav, A.** Spatiotemporally distinct neural mechanisms underlie our reactions to and comparison between value-based options. Preprint: <https://doi.org/10.1101/609198>
9. †Zhang, Y., †Leng, X., **Shenhav, A.** Make or break: The influence of expected challenges and rewards on the motivation and experience associated with cognitive effort exertion.
10. **Shenhav, A.**, Musslick, S., Botvinick, M. M., Cohen, J. D. Misdirected vigor: Differentiating the control of value from the value of control. Preprint: <https://doi.org/10.31234/osf.io/5bhwe>
11. Galla B.M., Baelen R.N., Fiore H.M., Hutt S., **Shenhav A.** Social media desire and impulsiveness: Intensified by self-immersion, reduced by mindfulness. Preprint: <https://doi.org/10.31234/osf.io/ch43n>.

Books

1. Morris R.W., Bornstein A.M., **Shenhav A.**, Editors (2018). Goal-Directed Decision Making: Computations and Neural Circuits. Amsterdam: Elsevier.

Book Chapters

1. Wolff, W., Hirsch, A., Bieleke, M., **Shenhav, A.** (2021). Neuroscientific approaches to self-regulatory control in sports. In C. Englert & I. Taylor (eds.), *Self-regulation and motivation in sport and exercise psychology*. London: Routledge.
2. Miller K.J., Ludvig E.A., Pezzulo G, **Shenhav A.** (2018). Re-aligning models of habitual and goal-directed decision-making. In Morris R.W., Bornstein A.M., Shenhav A. (Eds.), *Goal-Directed Decision Making: Computations and Neural Circuits*. Amsterdam: Elsevier.
3. *Kool W., ***Shenhav A.**, Botvinick M.M. (2017). Cognitive control as cost-benefit decision making. In T. Egner (Ed.), *Wiley Handbook of Cognitive Control* (pp. 167-189). Chichester, West Sussex, UK: John Wiley & Sons.

Commentaries

1. Braem, S., Held, L., **Shenhav, A.**, †Frömer, R. (in press). Learning how to reason and deciding when to decide. Commentary on Advancing Theorizing about Fast-and-Slow Thinking by Wim De Neys. *Behavioral and Brain Sciences*.
2. †Ritz, H., †Frömer, R., **Shenhav, A.** (2020). Bridging Motor and Cognitive Control: It's About Time! *Trends in Cognitive Sciences* 24(1): 6-8.
3. **Shenhav, A.** (2017). The perils of losing control: Why self-control is not just another value-based decision. *Psychological Inquiry* 28(2-3): 148-152.
4. **Shenhav, A.** & Botvinick, M.M. (2015). Uncovering a missing link in anterior cingulate research. *Neuron* 85(3): 455-457.
5. Bornstein, A.M., **Shenhav A.**, Miller K.J. (2015) Walking bundles of habits (and Response-Outcome associations). *European Journal of Neuroscience* 41:1356- 1357.
6. **Shenhav, A.** & Botvinick, M.M. (2013). Motivated action: New light on prefrontal-neuromodulatory circuits. *Current Biology* 23(4): R161-R163.
7. Haque, O.S., **Shenhav, A.**, Rand, D.G. (2011). Differences in cognitive style, emotional processing and ideology as crucial variables in understanding meaning making. *Religion, Brain & Behavior* 1(3): 223-225.

Peer-Reviewed Conference Papers

1. †*Grahek, I., †*Leng, X., Musslick, S., **Shenhav, A.** (2023). The Cost of Adjusting Cognitive Control: A Dynamical Systems Approach. *Conference on Computational Cognitive Neuroscience*. Oxford, UK. [[link](#)]
2. †Ritz, H., **Shenhav, A.** (2022). Orthogonal neural encoding of targets and distractors supports cognitive control. *Conference on Computational Cognitive Neuroscience*. San Francisco, CA. [[link](#)]
3. †Kim, J., †Frömer, R., †Leng, X., **Shenhav, A.** (2022). Approximate Bayesian Inference captures differential effects of value confidence on obligatory and voluntary choices. *Conference on Computational Cognitive Neuroscience*. San Francisco, CA. [[link](#)]
4. †Leng, X., †Frömer, R., †Summe, T., **Shenhav, A.** (2022). Leaving alternatives behind: A theoretical and experimental investigation of the role of mutual inhibition in shaping choice. *Conference on Computational Cognitive Neuroscience*. San Francisco, CA. [[link](#)]
5. †Frömer, R., Gluth, S., **Shenhav, A.** (2022). Hidden knobs: Representations for flexible goal-directed decision-making. *Reinforcement Learning and Decision Making*. Providence, RI. [[link](#)]
6. †Prater Fahey, M., †Yee, D., †Leng, X., †Tarlow, M. **Shenhav, A.** (2022). Disentangling influences of aversive motivation on control allocation across distinct motivational contexts. *Reinforcement Learning and Decision Making*. Providence, RI. [[link](#)]
7. †Kim, J., †Frömer, R., †Leng, X., **Shenhav, A.** (2022). Confidently conflicted: The impact of value confidence on choice varies with choice context. *Reinforcement Learning and Decision Making*. Providence, RI. [[link](#)]

8. †Leng, X., †Frömer, R., †Summe, T., **Shenhav, A.** (2022). A theoretical and experimental investigation of the role of mutual inhibition in shaping choice. *Reinforcement Learning and Decision Making*. Providence, RI. [[link](#)]
9. †Grahek, I., †Leng, X., †Prater Fahey, M., †Yee, D., R., **Shenhav, A.** (2022). Empirical and Computational Evidence for Reconfiguration Costs During Within-Task Adjustments in Cognitive Control. *Proceedings of the 44th Annual Meeting of the Cognitive Science Society*. Toronto, CA. [[link](#)]
10. †Leng, X., †Ritz, H., †Yee, D., **Shenhav, A.** (2020). Dissociable influences of reward and punishment on adaptive cognitive control. *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society*. Toronto, CA. [[link](#)]
11. †Ritz, H., DeGutis, J., Frank M.J., Esterman, M., **Shenhav, A.** (2020). An evidence accumulation model of motivational and developmental influences over sustained attention. *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society*. Toronto, CA. [[link](#)]
12. †Frömer, R., **Shenhav, A.** (2019). Overriding first impressions: evidence for a reference-dependent and attentionally-weighted multi-stage process of value-based decision-making. *Reinforcement Learning and Decision Making*. Montreal, CA.
13. †Ritz H., **Shenhav A.** (2019) Parametric control of distractor-oriented attention. *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Montreal, CA: Cognitive Science Society. [[link](#)]
14. †Ritz H, Nassar M.R., Frank M.J., **Shenhav A.** (2019) Decisions about reward and effort for learning and control of dynamical systems. *Reinforcement Learning & Decision Making*. Montreal, CA.
15. Musslick S., Cohen J.D., **Shenhav A.** (2019). Decomposing individual differences in cognitive control: A model-based approach. *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Montreal, CA: Cognitive Science Society. [[link](#)]
16. *Spitzer M., *Musslick S., **Shenhav A.**, Cohen, J.D., (2019). Asymmetric switch costs as a function of task strength. *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Montreal, CA: Cognitive Science Society. [[link](#)]
17. Musslick S., Cohen, J.D., **Shenhav A.** (2018). Estimating the costs of cognitive control from task performance: theoretical validation and potential pitfalls. *Proceedings of the 40 Annual Conference of the Cognitive Science Society*. Madison, WI: Cognitive Science Society. [[link](#)]
18. Musslick S., Seong, J.J., Shvartsman, M., **Shenhav A.**, Cohen, J.D. (2018). Constraints associated with cognitive control and the stability-flexibility dilemma. *Proceedings of the 40 Annual Conference of the Cognitive Science Society*. Madison, WI: Cognitive Science Society. [[link](#)]
19. Kane G.A., Bornstein A.M., **Shenhav A.**, Wilson R.C., Daw N.D., Cohen J.D. (2017). Mechanisms of overharvesting in patch foraging in rodents. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Ed.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. (pp. 637-642). Austin, TX: Cognitive Science Society. [[link](#)]
20. Musslick, S., **Shenhav, A.**, Botvinick, M. M., Cohen, J. D. (2015) A computational model of control allocation based on the Expected Value of Control. *Reinforcement Learning & Decision Making*. Edmonton, Alberta, CA. [[link](#)]

Invited Talks

October, 2023	Cognition and Perception Colloquium, New York University. New York, NY.
June, 2023	Keynote, EARLI Monitoring and Regulation of Effort Network Virtual Meeting.
April, 2023	Psychology Colloquium, UC Berkeley. Berkeley, CA.
March, 2023	Brain, Behavior and Cognition Seminar, Boston University. Boston, MA.
March, 2023	Seminar, Max Planck UCL Centre for Computational Psychiatry. London, UK.
December, 2022	Neuroeconomics Seminar, University of Zurich. Zurich, Switzerland.

November, 2022 Psychology Colloquium, Yale University. New Haven, CT.
 November, 2022 Invited talk, 3rd Annual Mental Effort Workshop. Providence, RI.
 August, 2022 Keynote, The Nature & Value of Effort. University of Neuchâtel. Neuchâtel, Switzerland.
 April, 2022 Cognitive Science Department, Rensselaer Polytechnic Institute. Troy, NY.
 March, 2022 Invited Flash Talks, Society for Affective Science Virtual Meeting.
 November, 2021 Decision Neuroscience Symposium, Univ of Melbourne. Melbourne, Australia.
 May, 2021 Psychological Science Lecture Series, Univ of Hamburg. Hamburg, Germany.
 May, 2021 Cognitive Science Colloquium Series, UC San Diego. San Diego, CA.
 March, 2021 Center for Information and Neural Networks, Osaka University. Osaka, Japan.
 November, 2020 Reinforcement Learning & Decision Making Series, Max Planck-Tübingen, Germany.
 October, 2020 Opportunity Insights Lunch Lecture, Harvard University. Cambridge, MA.
 June, 2020 Interdisciplinary Symposium on Decision Neuroscience. Philadelphia, PA.
 February, 2020 Depression, Anxiety & Stress Research Series, McLean Hospital. Belmont, MA.
 September, 2019 Center for Cognitive Neuroscience Seminar, Ghent University. Ghent, Belgium.
 September, 2019 Motivation and Cognitive Control Symposium. Berlin, Germany.
 April, 2019 Decision Neuroscience Symposium, University of Oregon. Eugene, OR.
 March, 2019 Social Psychology Brown-Bag Series, Harvard University. Cambridge, MA.
 March, 2019 Cognitive Neuroscience Colloquium Series, Duke University. Durham, NC.
 August, 2018 SFB Symposium on Volition and Self-Control. Dresden, Germany.
 March, 2018 Psychology Current Works Series, Yale University. New Haven, CT.
 October, 2017 Cognition, Brain, & Behavior Series, Harvard University. Cambridge, MA.
 October, 2017 Philosophical, Cognitive, & Neural Bases of Responsible Action. Princeton, NJ.
 June, 2017 Spring School on Cognitive-Affective Neuroscience. Dresden, Germany.
 May, 2017 Psi Chi Departmental Conference, UMass Dartmouth. Dartmouth, MA.
 March, 2017 Industrial/Organization Psychology Series, U of Connecticut. Storrs, CT.
 December, 2016 Cognitive and Brain Sciences Colloquium, UC Berkeley. Berkeley, CA.
 August, 2016 Computational Properties of the Prefrontal Cortex, Lyon, France.
 May, 2016 International Symposium on the Biology of Decision Making, Paris, France.
 May, 2016 Department of Psychology, University of Toronto. Toronto, Ontario, Canada.
 April, 2016 Grand Rounds, Department of Psychiatry, Brown University. Providence, RI.
 March, 2016 Sackler Institute Science Series, Weill Medical College, Cornell. New York, NY.
 February, 2016 Cognitive Science Colloquium Series, University of Arizona. Tucson, AZ.
 December, 2015 Neuroeconomics Seminar, University of Zurich. Zurich, Switzerland.
 April, 2015 Moral Psychology Research Group. Hanover, NH.
 March, 2015 Social Psychology Seminar, UNC Chapel Hill. Chapel Hill, NC.
 March, 2015 Affective Brain Lab Series, University College of London. London, UK.
 February, 2015 Department of Psychology, Columbia University. New York, NY
 February, 2015 Cognitive, Linguistic, & Psychological Sciences Dept. Brown. Providence, RI.
 February, 2015 Department of Psychological & Brain Sciences, Boston University. Boston, MA.
 January, 2015 Cognitive Psychology Seminar, Stanford University. Stanford, CA.
 January, 2015 Department of Psychology, Cornell University. Ithaca, NY.
 January, 2015 Center for Mind and Brain, University of California, Davis. Davis, CA.
 December, 2014 Department of Psychology, University of Pennsylvania, Philadelphia, PA.

November, 2014 Department of Psychological & Brain Sciences, Dartmouth, Hanover, NH.
February, 2014 Cognitive Psychology Seminar, Yale University. New Haven, CT.

Chaired Conference Symposia and Workshops

September, 2021 2nd Workshop on Mental Effort. Co-advisor: Jon Cohen. Organizers: Laura Bustamante, Ivan Grahek, Sebastian Musslick, Maria Wirzberger.

July, 2020 Mental Effort: One Construct, Many Faces? Co-organizers: Laura Bustamante, Jon Cohen, Ivan Grahek, Sebastian Musslick, Maria Wirzberger. Cognitive Science Society. Workshop.

March, 2019 Affective and motivational influences on decision-making. Co-chair: Candace Raio. Cosyne. Workshop.

November, 2016 Towards a Better Understanding of the Motivation-Control Interface. Control Processes Conference. Symposium.

October, 2015 Understanding Goal-Directed Decision-Making in Humans: Computations and Circuits. Co-chair: Richard Morris. Society for Neuroscience. Minisymposium.

March, 2015 Random Walk Models Across Decision Making Domains. Co-chairs: Michael Shvartsman and Robert Wilson. Cosyne. Workshop.

Recent Conference Presentations († denotes trainee)

1. †Leng, X., †Frömer, R., **Shenhav, A.** (2022) Neural dynamics underlying divergent influences of reward and punishment on control allocation. Society for Neuroeconomics [Poster].
2. †Frömer, R., †Kim, J., †Prater Fahey, M., **Shenhav, A.** (2022) Neural circuits underlying the integration of reward and efficacy to determine the expected value of control. Society for Neuroeconomics [Poster].
3. †Prater Fahey, M., Bustamante, L.A., †Grahek, I., Solis, J., Oshinowo, T., Tong, E., Lee, J., Burton, A.R., Konova, A., Daw, N.D., Cohen, J.D., **Shenhav, A.** (2022) Disentangling the motivation to exert cognitive control in depression. Society for Neuroeconomics [Poster].
4. †Frömer, R. & **Shenhav, A.** (2022) Distinct neural dynamics underpin competing subjective experiences of value-based choice. Society for Neuroeconomics [Poster].
5. McKim, T.H., †Frömer, R., †Prater Fahey, M., **Shenhav, A.**, Eppinger, B. Reiter, A.(2022). Examining the influence of reward and efficacy in development of the expected value of control. FLUX Paris, September 7-9, 2022 [Poster].
6. †Grahek, I., †Leng, X., †Prater Fahey, M., †Yee, D., R., **Shenhav, A.** (2022). Empirical and Computational Evidence for Reconfiguration Costs During Within-Task Adjustments in Cognitive Control. *Cognitive Neuroscience Society*. [Poster].
7. †Mundy, K., †Yee, D.M., †Leng, X., †Prater Fahey, M., **Shenhav, A.** (2021) Age-related differences in the influence of positive and negative motivational incentives on mental effort. Society for Affective Science [Poster].
8. †Ritz, H., †Frömer, R., **Shenhav, A.** (2021) Using process models to disentangle stimulus-driven and controlled processes during value-based decision making. Society for Neuroeconomics / Society for Neuroscience [Poster].
9. †Frömer, R., Nassar, M., Ehinger, B., **Shenhav, A.** (2021) Two distinct patterns of EEG activity emerge during value-based choice, neither related to evidence accumulation. Society for Neuroeconomics / Society for Neuroscience [Poster].

10. †Zhang, Y., †Leng, X., **Shenhav, A.** (2021) Does It Make You or Break You? the Influence of Expected Challenges and Rewards on the Motivation and Experience Associated with Cognitive Effort Exertion. Association for Psychological Sciences [Poster].
11. †Yee, D.M., †Leng, X., †Prater Fahey, M., †Tarlow, M., **Shenhav, A.** (2021) Psychiatric Symptom Dimensions are Associated with Positive and Negative Influences on Mental Effort. Society for Affective Science [Poster].
12. †Yee, D., †Tarlow, M., †Leng, X., †Prater Fahey, M., **Shenhav, A.** (2021) Investigating Dissociable Neural Mechanisms of Reward and Penalty Motivation on Mental Effort Allocation. Symposium on Biology of Decision-Making [Poster].
13. †Prater Fahey M., †Grahek I., †Dean Wolf C.K., Placido D., Orwicz A., Amso D., & **Shenhav A.** (2020). When is my effort worthwhile? Learned efficacy influences how adolescents allocate cognitive control. Flux Congress [Poster]
14. †Ritz, H., Hayden, B., **Shenhav, A.**, Yoo, S.B. (2020). Optimal control of approach-avoidance dynamics. Neuromatch 3.0 [Talk].
15. †Ritz, H., Nassar, M.R., Frank, M.J., **Shenhav, A.** (2020). Optimal decision-making in metric space. Society for Neuroeconomics [Poster Spotlight Talk].
16. †Leng, X., †Frömer, R., **Shenhav, A.** (2020). All you can choose: The influence of choice exclusivity on the process and experience of decision-making. Society for Neuroeconomics [Poster] / Interdisciplinary Symposium on Decision Neuroscience [Blitz].
17. †Frömer, R., Callaway, F., **Shenhav, A.** (October, 2020). Considering what we know and what we don't know: Expectations and metacognition guide value integration during economic choice. Society for Neuroeconomics [Talk].
18. †Tarlow, M., Chase, H., Graur, S., †Frömer, R., Haber, S.M., Monosov, I., *Phillips, M., ***Shenhav, A.** (2020). Characterizing approach-avoid decision-making under uncertainty in Obsessive Compulsive Disorder. Society for Neuroeconomics [Poster].
19. †Zhang, Y., †Leng, X., **Shenhav, A.** (2020) The influence of positive and negative incentives on physical effort persistence. Cognitive Neuroscience Society. [Poster]
20. †Frömer, R., **Shenhav A.** (2019). Overriding First Impressions: Evidence for a Reference-Dependent and Attentionally-Weighted Multi-Stage Process of Value-Based Decision-Making. Cognitive Computational Neuroscience [Poster]
21. †Bustamante, L.A., Burton, A., **Shenhav, A.**, Daw, N.D., and Cohen, J.D. (2019). Evidence for a cost of cognitive control effect on foraging behavior. 7th International Symposium on Motivational and Cognitive Control [Poster]/ 4th Multidisciplinary Conference on Reinforcement Learning and Decision Making [Poster].
22. †Frömer, R., Lin, H., †Dean Wolf, C.K., Inzlicht, M., **Shenhav A.** (2019). Neural dynamics underlying the integration of reward and efficacy during evaluation and motivation of cognitive control. 7th International Symposium on Motivational and Cognitive Control [Poster]. Society for Neuroscience [Talk].
23. †Ritz, H., **Shenhav A.** (2019). Parametric Control of Attention. 7th International Symposium on Motivational and Cognitive Control. [Poster]
24. †Grahek, I., †Frömer, R., **Shenhav A.** (2019). Learning whether control matters: neural dynamics underlying the updating of expectations and control allocation in response to changes in performance efficacy. 7th International Symposium on Motivational and Cognitive Control. [Poster]
25. †Leng, J., †Yee, D., **Shenhav A.** (2019). The influence of positive and negative incentives on cognitive effort persistence. 7th International Symposium on Motivational and Cognitive Control. [Poster]
26. †Grahek, I., Musslick, S., **Shenhav A.** (2019). The Role Affect in Cognitive Control: A Computational Approach and its Relevance for Depression. Annual Conference of the International Society for Research on Emotion. [Talk]
27. †Ritz, H., Nassar, M.R., Frank, M.J., **Shenhav, A.** (2019) Decisions about reward and effort for the learning and control of dynamical systems. Reinforcement Learning and Decision Making. Montreal, CA. [Poster]

28. †Ritz, H., †Dean Wolf, C., †Frömer, R., **Shenhav, A.** (2019) Quantifying the demands of value-based decision-making with short-term memory interference. Cognitive Neuroscience Society . San Francisco, USA. [Poster]
29. †Ritz, H., DeGutis, J., Frank M.J., Esterman, M., **Shenhav, A.** (2018) Modeling motivational influences on sustained attention. Society for Neuroeconomics. [Poster]
30. †Bustamante L., Burton A., Baker A., **Shenhav A.**, Daw N., Cohen J.D. (2018). The cost of cognitive control and the balance of random versus directed exploration. Society for Neuroscience. [Poster]
31. †Rmus M., †Ritz H., Hunter L.E., Bornstein A.M., **Shenhav A.** (2018). Model-based decision making is associated with structure inference ability. Society for Neuroeconomics. [Talk]
32. †Froemer R., **Shenhav A.** (2018). Sum before difference: ERPs reveal differential temporal contributions of overall set value and value difference. Society for Neuroeconomics. [Poster]
33. †Bustamante L., Lieder F., Musslick S., **Shenhav A.**, Cohen J. D. (2018). Learning to overexert cognitive control in the Stroop task. Computational Cognitive Neuroscience Conference. [Poster]
34. †Bustamante, L.A., Burton, A., Baker, A., Hoerber, C., **Shenhav, A.**, Daw, N.D., Cohen, J.D. (2018). Novel methods for measuring the cost of cognitive control in a patch foraging task and a demand selection task with Stroop. Cognitive Science Society. [Poster]
35. **Shenhav A.**, Musslick S., Botvinick M.M., Cohen J.D. (2018). Weighing the costs and benefits of mental effort. Association for Psychological Science Annual Meeting. [Talk]
36. Kane G.A., James M.H., **Shenhav A.**, Wilson R.C., Daw N.D., Aston-Jones G., Cohen J.D. (2018). Does the anterior cingulate contribute to foraging decisions? Cosyne. [Poster]
37. †Froemer R., †Dean Wolf C.K., **Shenhav A.** (2018). What to choose? Goals determine the effect of set value on the speed of value-based decisions. Cognitive Neuroscience Society. [Poster]
38. †Ritz H., **Shenhav A.** (2018). The influence of predictability and parametrically varying conflict level on performance and cognitive control. Cognitive Neuroscience Society. [Poster]
39. †Dean Wolf C.K., †Cory E.V., **Shenhav A.** (2018). The influence of expected reward and efficacy on cognitive effort allocation. Cognitive Neuroscience Society. [Poster]
40. †Xu, A., **Shenhav A.** (2018). The role of negative feedback in the experience and allocation of effort. Society for Affective Science. [Poster]
41. **Shenhav A.**, Karmarkar U.R. (2018). Dissociable Mechanisms for Evaluation Involved in Appraising a Set Versus Choosing From It. Society for Judgment and Decision-Making. [Talk] Association for Consumer Research. [Talk]

Teaching Experience

Course Instructor

2023	CLPS 1480M: Motivation and Effort. Brown University, 22 enrolled. Average rating: 1.31. [1-5 scale, 1: “very effective”]
2016-2022	CLPS 1495: Affective Neuroscience. Brown University, 16-24 enrolled. Average rating: 1.17. [1-5 scale, 1: “very effective”]
2017-2020	CLPS 1900: Research Methods and Design. Brown University, 17-23 enrolled. Average rating: 1.11. [1-5 scale, 1: “very effective”]

Teaching Fellow

- Summer 2010 Mind, Brain, & Behavior S-92: Visual Neuroscience.
Harvard University Summer Study Abroad (Trento, Italy).
Rating: 4.9. [1-5 scale, 5: “very effective”]
- Summer 2010 Mind, Brain, & Behavior S-101: Windows into the Structure of Mind/Brain.
Harvard University Summer Study Abroad (Trento, Italy).
Rating: 4.5. [1-5 scale, 5: “very effective”]
- Spring 2010 Psychology 1901: Methods of Behavioral Research.
Harvard University.
Rating: 4.6. [1-5 scale, 5: “very effective”]
*Received Derek Bok Center Teaching Award.

Mentoring

Postdoctoral Fellows

- 2023-Present Hayley Brooks, PhD, Postdoctoral Research Associate, *Brown University*
2021-Present Amanda Arulpragasam, PhD, Postdoctoral Research Associate, *Brown University*
2020-Present Ivan Grahek, PhD, Postdoctoral Research Associate, *Brown University*
2019-Present Debbie Yee, PhD, Postdoctoral Research Associate, *Brown University*
2017-22 Romy Frömer, PhD, Postdoctoral Research Associate, *Brown University*

Graduate Students

- 2023- Present Ziwei Cheng, PhD Student, *Brown University*
2022- Present Yi-Hsin Su, PhD Student, *Brown University*
2019- Present Mahalia Prater Fahey, PhD Student, *Brown University*
2018- Present Xiamin (Jason) Leng, PhD Student, *Brown University*
2016-22 Harrison Ritz, PhD Student, *Brown University*

Research Assistants

- 2023- Present Meriel Doyle, *Brown University*
2022- Present Adanne Ogbaa, *Brown University*
2021-23 Joonhwa Kim, *Brown University*
2019-21 SarahMay (Maisy) Tarlow, *Brown University*
2016-20 Carolyn Dean Wolf, *Brown University*
2013-15 Mark Straccia, *Princeton University*

Undergraduate Research Assistants

Brown University

- | | | |
|-------------------------------|----------------------------|-----------------------------|
| Aislinn Baxter, 2023-Present | Maja Nieweglowska, 2021-22 | Noa Mintz, 2019-21 |
| Rohan Kumaran, 2023-Present | Kaila Zimnavoda, 2021-22 | Arden Orwitz, 2019-21 |
| Yihuan Dong, 2022-Present | Chris Bravo, 2020-22 | Alessandra Bianco, 2020 |
| Maya Hoffman, 2022-Present | Keelin Lyons, 2020-22 | Anna Park, 2020 |
| Kaitlyn Gosakti, 2021-Present | Selin Baydar, 2019-22 | Gloria Feng, 2019-20 |
| James Nesbit, 2021-Present | Ali Zaidi, 2021 | Allegra Friedman, 2019 |
| Kaitlyn Mundy, 2021-23 | Linda Zhang, 2018-21 | Savannah Doelfel, 2019 |
| Sam Nevins, 2021-23 | Alice Bai, 2020-21 | Felicia Renelus, 2018-19 |
| Sydney Tucker, 2021-23 | Peyton Strong, 2020-21 | Akari Izumi, 2018-19 |
| Kyle Chen, 2021-22 | Thomas Summe, 2020-21 | Paulina Sengiridis, 2018-19 |

Allison Loynd, 2017-19
Hattie Xu, 2017-19
Ailita Eddy, 2018
Isabel Shaw, 2018
Elizabeth Cory, 2017-18

Milena Rmus, 2017-18
Wasita Mahaphanit, 2016-18
Anna Xu, 2016-18
Cora Ordway, 2017-18
Michelle Basta, 2017

William McNelis, 2017
Kia Sadahiro, 2016-17
Ayenna Cagaanan, 2016-17

Princeton University

Carrie Chen, 2015-16

George Jian, 2014-15

Doris Voina, 2013

Harvard University

Alex Tancredi, 2011-12
Sophie Scolnik-Brower, 2011-12
Brogan Berry, 2011-12
Emma Golen, 2011-12

Christine Matera, 2010-11
Devon Long, 2011
Claire Wheeler, 2010
Ricky Kuperman, 2009-10

Margaret Cochran, 2009
Ting Zhang, 2009
Pierina Sanchez, 2009

Undergraduate thesis advisees

- 2022-23 Sydney Tucker, *Brown University*, “Learning about task difficulty to determine exertion of mental effort”
*Awarded Muriel Fain Sher premium for research excellence in Psychology
- 2022-23 Kaitlyn Mundy, *Brown University*, “The Influence of Learned Positive and Negative Motivational Incentives on Cognitive Control”
*Awarded Cognitive Neuroscience premium for research excellence
- 2021-22 Selin Baydar, *Brown University*, “Does your effort matter for avoiding penalties? The role of performance efficacy and penalty in cognitive control allocation”
*Awarded Cognitive Neuroscience premium for research excellence
- 2020-21 Linda Zhang, *Brown University*, “Make-or-break: The Influence of Expected Challenges and Rewards on the Motivation and Experience Associated with Cognitive Effort Exertion”
*Awarded Cognitive Neuroscience premium for research excellence
- 2019-20 Jennifer Dzul, *Brown University*, “Are Distractors really that Distracting? A Closer Look into Target vs Distractor Processing in Older Adults” (co-advised by Profs. Elena Festa and William Heindel)
- 2017-18 Milena Rmus, *Brown University*, “Model-based decision making is associated with structure learning ability”
- 2017-18 Elizabeth Cory, *Brown University*, “Learning the efficacy of cognitive effort”
*Awarded Cognitive Neuroscience premium for research excellence
- 2017-18 Wasita Mahaphanit, *Brown University*, “The Cost of having better alternatives”
- 2017-18 Anna Xu, *Brown University*, “Do you ever get tired of being wrong? The role of feedback in the experience and allocation of physical effort”
- 2015-16 Carrie Chen, *Princeton University*, “Motivational Learning: The Influence of Prediction Errors in Effort Costs & Rewards on Estimates of Future Performance”
- 2011-12 Alex Tancredi, *Harvard University*, “Choice Size, Value, and Perceived Freedom of Choice: Effects on Choice-Related Stress and Regret”
- 2011-12 Sophie Scolnik-Brower, *Harvard University*, “Holy Crap!: The Role of Disgust in Religious Beliefs”

High School Students

2022 Ariella Reynolds, *Avon High School, Avon, CT*

2019 Natalie Cardoso, *Lynbrook High School, Lynbrook, NY*
2011 Brian Trippe, *Milton Academy, Milton, MA*
2011 Mattia Pizzagalli, *Winchester High School, Winchester, MA*

First-Year Exam and Preliminary Exam Committees

Krishn Bera, <i>Brown University</i>	Jessica Emerson, <i>Brown University</i>
Victoria Halewicz, <i>Brown University</i>	Daniel Scott, <i>Brown University</i>
Ziqi Zhao, <i>Brown University</i>	Nadira Yusif Rodriguez, <i>Brown University</i>
Guillaume Pagnier, <i>Brown University</i>	Joseph Heffner, <i>Brown University</i>
Alana Jaskir, <i>Brown University</i>	Harrison Ritz, <i>Brown University</i>
Jason Leng, <i>Brown University</i>	Ceyda Sayali, <i>Brown University</i>
Alex Fengler, <i>Brown University</i>	

Dissertation Committees

Pradyumna Sepulveda, <i>University College London</i>	Andrew Lynn, <i>Brown University</i>
Shengjie Xu, <i>Ghent University</i>	Nadira Yusif Rodriguez, <i>Brown University</i>
Anusha Allawalla, <i>Brown University</i>	Laura Bustamante, <i>Princeton University</i>
Haijing Wu Hallenbeck, <i>Washington Univ in St. Louis</i>	Catherine Insel, <i>Harvard University</i>
Harrison Ritz, <i>Brown University</i>	Ceyda Sayali, <i>Brown University</i>
Joseph Heffner, <i>Brown University</i>	

Ad Hoc Referee

Fellowships:

National Science Foundation

Grants:

Department of Defense | European Research Council | ETH Zurich Research Commission | Israel Science Foundation | National Science Foundation | Natural Sciences and Research Council of Canada

Journals (40+):

Behavioral and Brain Sciences | Biological Psychiatry | Brain | Cognitive Affective and Behavioral Neuroscience | Cerebral Cortex | Cognition | Cognitive Psychology | Cognition and Emotion | Current Directions in Psychological Sciences | Development and Psychopathology | Developmental Psychology | Developmental Review | eLife | Emotion | Frontiers in Psychology | Human Brain Mapping | Journal of Cognitive Neuroscience | Journal of Experimental Psychology: General | Journal of Experimental Psychology: Human Perception & Performance | Journal of Experimental Social Psychology | Journal of Neuroscience | Judgment and Decision Making | Motivation Science | Nature Communications | Nature Human Behaviour | Nature Neuroscience | NeuroImage | Neuropsychologia | Neuroscience and Biobehavioral Reviews | Neuron | NPG Science of Learning | Proceedings of the National Academy of Sciences | PLOS ONE | Perspectives on Psychological Sciences | Psychological Science | Psychological Review | Psychonomic Bulletin and Review | Science | Social Cognitive and Affective Neuroscience | Thinking and Reasoning | Trends in Cognitive Sciences | WIREs Cognitive Sciences

Editorial Board Member:

2022- Present Journal of Experimental Psychology: General
2019- Present Affective Science
2018- Present Social Cognitive and Affective Neuroscience

Professional Service

- 2019- Present Co-Organizer, *Curiosity, Creativity, and Complexity conference*. New York, NY.
- 2021- Present Member, Program Committee. Annual conference of the *Society for Neuroeconomics*.
- 2022 Member, Award Committee. Annual conference of the *Society for Neuroeconomics*.
- 2021-22 Chair, Social Committee. *Multidisciplinary Conference on Reinforcement Learning and Decision Making*.
- 2016- Co-Founder and Co-Organizer, *New England Research on Decision-Making* consortium.
- 2019-20 Chair, Program Committee. Annual conference of the *Society for Affective Science*. San Francisco, CA.
- 2018-19 Member, Program Committee. Annual conference of the *Society for Affective Science*. Boston, MA.
- 2018-19 Member, Publications Committee. *Society for Affective Science*.
- 2017-18 Member, Program Committee. Annual conference of the *Society for Affective Science*. Los Angeles, CA.
- 2016-17 Member, Local Organizing Committee. Annual conference of the *Society for Affective Science*. Boston, MA.

University Service

- 2023- Present Graduate Advisor, Psychology and Cognitive Science Ph.D. programs
- 2022- Present Chair, CLPS Information Technology & Communications Committee
- 2020- Present Member, CLPS Diversity and Inclusion Action Plan Committee
- 2020- Present Member, University Commencement Speaker Selection Committee
- 2019- Present Advisor, Cognitive Brown-Bag Seminar
- 2017- Present Area Specialist, Behavioral Decision Sciences Concentration
- 2019-23 Undergraduate Advisor, Cognitive Neuroscience Concentration
- 2022-23 Diversity Representative, Social/Cognitive Psychology Search Committee
- 2022 Co-Chair, CLPS Hiring Plan Committee
- 2021-22 Chair, Whalen Award Committee
- 2019-21 Undergraduate Advisor, First-Year Students
- 2021 Member, Carney Institute Graduate Awards Committee
- 2019 Graduate Advisor, Cognitive Science
- 2017-18 Co-Chair, Brown Institute for Brain Science Junior Faculty Development committee
- 2017 Member, Undergraduate Honors Thesis Committee
- 2017 Member, Graduate Recruitment Weekend Committee

Pre-Doctoral Research Experience

- 2005-07 Research Assistant / Lab Manager, UC Berkeley. PI: Michael Silver Ph.D.
- 2003-05 Research Assistant, UC Berkeley. PI: Mark D'Esposito M.D.
- 2005 Research Assistant, Ernest Gallo Clinic & Research Center / UC San Francisco. PIs: Howard Fields M.D., Ph.D. / Michael Rowbotham M.D.
- 2004 Student Researcher, University of Hyderabad (India). PI: Bapi Raju Ph.D.
- 2003 Laboratory Assistant, UC Los Angeles. PI: Arthur Toga Ph.D.