

# CURRICULUM VITAE

Ajay Bhaskar Satpute

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## PERSONAL INFORMATION

Northeastern University  
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Lab Website: <https://web.northeastern.edu/affectiveandbrainscienceslab/>

## EDUCATION

08/2005-08/2008	Ph.D., Cognitive Psychology, University of California, Los Angeles, CA
08/2002-07/2005	M.A., Cognitive Psychology, University of California, Los Angeles, CA
08/1996-05/2000	B.A., Psychology, Magna Cum Laude, Trinity University, TX

## EMPLOYMENT

07/2021-present	Core Member, Institute for Experiential Artificial Intelligence
09/2020-present	Research Staff and Investigator, Department of Radiology, Massachusetts General Hospital
08/2023-present	Associate Professor of Psychology, Northeastern University
08/2017-07/2023	Assistant Professor of Psychology, Northeastern University
07/2014-06/2017	Assistant Professor of Psychology and Affiliate member of Neuroscience, Pomona College
06/2011-06/2014	Senior Research Scientist, Northeastern University
11/2008-05/2011	Postdoctoral Researcher, Columbia University
07/2001-08/2002	Research Assistant, UCLA
06/2000-06/2001	Research Assistant, Washington University in St. Louis

## HONORS AND AWARDS

Vice President (President Elect), Society for Social and Affective Neuroscience (2023)  
Innovation Award Finalist with K. Lindquist, J. Jackson, J. Leshin, and M. Gendron, Social and Affective Neuroscience Society (2022)  
Innovation Award Finalist with K. Lee and F. Ferreira-Santos, Social and Affective Neuroscience Society (2022)

Best Conference Abstract Award, Society for Affective Science (2013)  
UCLA Dissertation Year Fellowship Award (2007-2008)  
National Science Foundation Graduate Research Fellowship Award (2002-2005)  
Trinity University Music Scholarship (1996-2000)  
Dayton Hudson College Scholarship (1996)

## PUBLICATIONS

\*Mentee/Former Mentee, #Authors contributed equally, ^Shared senior authorship.

### Articles Refereed

- \*McVeigh, K., Kleckner, I., Quigley, K., & **Satpute, A. B.** (2023). Fear-related psychophysiological patterns are situation and person dependent: A Bayesian model comparison approach. *Emotion*.
- Hegefeld, H. M., **Satpute, A. B.**, Ochsner, K. N., Davidow, J. Y., & Nook, E. C. (2023). Fluency generating emotion words correlates with verbal measures but not emotion regulation, alexithymia, or depressive symptoms. *Emotion*.
- Atzil, S., **Satpute, A. B.**, Zhang, J., Parrish, M. H., Shablack, H., MacCormack, J. K., ... & Lindquist, K. A. (2023). The impact of sociality and affective valence on brain activation: A meta-analysis. *NeuroImage*, 119879
- Lindquist, K. A., Jackson, J. C., Leshin, J., **Satpute, A. B.**, & Gendron, M. (2022). The cultural evolution of emotion. *Nature Reviews Psychology*, 1-13.
- \*#Khan, Z., \*#Wang, Y., \*Sennesh, E. Z., Dy, J., Ostaddabas, S., van de Meent, J. W., Hutchinson, J. B.<sup>^</sup>, & **Satpute, A. B.**<sup>^</sup> (2022). A computational neural model for mapping degenerative neural architectures. *Neuroinformatics*, 1-15.
- \*Iancarelli, A., Denson, T. F., Chou, C. A., & **Satpute, A. B.** (2022). Using citation network analysis to enhance scholarship in psychological science: A case study of the human aggression literature. *PloS one*, 17(4), e0266513.
- \*Lee, K. M., \*Lee, S., & **Satpute, A. B.** (2022). Sinful pleasures and pious woes? Using fMRI to examine evaluative and hedonic emotion knowledge. *Social, Cognitive, and Affective Neuroscience*.
- \*Lee, K. M., Ferreira-Santos, F., & **Satpute, A. B.** (2021). Predictive models in affective neuroscience. *Neuroscience and Biobehavioral Reviews* 131, 211-228.
- Kragel, P. A., Ceko, M., \*Theriault, J., \*Chen, D., **Satpute, A. B.**, Wald, L. W., Lindquist, M. A., Barrett, L. F., & Wager, T. D. (2021). A human colliculus-pulvinar-amygdala pathway encodes negative emotion. *Neuron*, 109, 2404-2412.
- \*Nook, E. C., **Satpute, A. B.**, Ochsner, K. N. (2021). Emotion naming impedes emotion regulation. *Affective Science*, 2, 187-198.
- Satpute, A. B.**, & Lindquist, K. A. (2021). At the neural intersection between language and emotion. *Affective Science*, 2, 207–220. DOI: 10.1007/s42761-021-00032-2
- Nord, C. L., Barrett, L. F. Lindquist, K. A., Ma, Y., Marwood, L., **Satpute, A. B.**, & Dalgleish, T. (2021). Neural effects of antidepressant medication and psychological treatments: a quantitative synthesis across three meta-analyses. *British Journal of Psychology*, 1-5.
- \*Sennesh, E., \*Khan, Z., \*Wang, Y., \*Farnoosh, A., Ostadabbas, S., Dy, J., **Satpute, A. B.**, Hutchinson, J. B. & van de Meent, J. W. (2020). Neural Topographic Factor Analysis for fMRI Data. *NeurIPS*.

- \*Azari, B., \*Westlin, C, **Satpute, A.B.**, Hutchinson, J.B., Kragel P.A., Hoemann, K., Khan, Z., Wormwood, J.B., Quigley, K.S., Erdogmus, D., Dy, J., Brooks, D.H., & Barrett, L.F. (2020). Comparing supervised and unsupervised approaches to emotion categorization. *Scientific Reports*, 10, 1-17.
- MacCormack, J. K., Stein, A. G., Giovanello, K. S., Kang, J., **Satpute, A. B.**, & Lindquist, K. A. (2020). Affect in the aging brain: A neuroimaging meta-analysis of functional activation and coactivation differences in older vs. younger adult affective experience and perception. *Affective Science*, 1, 128-154. DOI: 10.1007/s42761-020-00016-8
- \*Wake, S., Wormwood, J., & **Satpute, A. B.** (2020). The influence of fear on risk taking: A meta-analysis. *Cognition and Emotion*, 34, 1-17.
- \*Wang, Y., Bianciardi, M., Chanes, L., & **Satpute, A. B.** (2020). Ultra High Field fMRI of Human Superior Colliculi Activity during Affective Visual Processing, *Scientific Reports*, 10, 1-7.
- Satpute, A. B.**, & Lindquist, K. A. (2019). The default mode network's role in discrete emotion. *Trends in Cognitive Sciences*, 23, 851-864.
- \*Kragel, P. A., Bianciardi, M., Hartley, L., Matthewson, G., Choi, J. K., Quigley, K. S., Wald, L. L., Wager, T. D., Barrett, L. F., & **Satpute, A. B.** (2019). Functional involvement of human periaqueductal gray and other midbrain nuclei in cognitive control. *Journal of Neuroscience*, 39(31), 6180-6189.
- Schweizer, S., **Satpute, A. B.**, Atzil, S. Field, A., Barrett, L. F., & Dalgleish, T. (2019). Affective contexts: Do they help or hinder working memory? A meta-analytic review. *Psychological Bulletin*, 6, 566-609.
- Satpute, A. B.**, \*Kragel, P. A., Barrett, L. F., Wager, T. D., & Bianciardi, M. (2018). Deconstructing arousal into wakeful, autonomic and affective varieties. *Neuroscience letters*, 693, 19-28. NIHMS 941954
- Barrett, L. F., & **Satpute, A. B.** (2017). Historical pitfalls and new developments in the neuroscience of emotion. *Neuroscience Letters*, 693, 9-18.
- \*Ciric, R., Nomi, J. S., Uddin, L. Q., & **Satpute, A. B.** (2017). Contextual connectivity: A framework for understanding the intrinsic dynamic architecture of large-scale functional brain networks. *Scientific Reports*, 7, 6537.
- Satpute, A. B.**, \*Hanington, L., & Barrett, L. F. (2016). Novel response patterns during repeated presentation of affective and neutral stimuli: An exploratory fMRI investigation. *Social Cognitive and Affective Neuroscience*, 11, 1919-1932.
- Brooks, J. A., Shablack, H., Gendron, M., **Satpute, A. B.**, Parrish, M. H., & Lindquist, K. A. (2016). The role of language in the experience and perception of emotion: A neuroimaging meta-analysis. *Social Cognitive and Affective Neuroscience*, 12, 169-183.
- Satpute, A. B.**, \*Nook, E. C., \*Narayanan, S., Weber, J., \*Shu, J. & Ochsner, K. N. (2016). Emotions in 'black or white' or 'shades of gray'? How we think about emotion shapes our perception and neural representation of emotion. *Psychological Science*, 27, 1428-1442.
- #Lindquist, K. A., #**Satpute, A. B.**, Wager, T. D., Weber, J. & Barrett, L. F. (2016). The brain basis of positive and negative affect: Evidence from a meta-analysis of the human neuroimaging literature. *Cerebral Cortex*, 26, 1910-1922.
- Satpute, A. B.**, Kang, J., Bickart, K., Wager, T. D., & Feldman Barrett, L. (2015). Involvement of sensory regions in affective experience: A meta-analysis. *Frontiers in Psychology*, 6, 1860.

- Wager, T. D., Kang, J., Johnson, T. D., Nichols, T. E., **Satpute, A. B.**, & Barrett, L. F. (2015). A Bayesian model of category-specific emotional brain responses. *PLOS One: Computational Biology*.
- Lindquist, K. A., **Satpute, A. B.**, Gendron, M. (2015). Does language do more than communicate emotion? *Current Directions in Psychological Science*, 24, 99-108.
- Satpute, A. B.**, Wager, T. D., Cohen-Adad, J., Choi, J. K., Bianciardi, M., Buhle, J., Wald, L., & Barrett, L. F., (2013). Identification of discrete functional subregions of the human periaqueductal gray. *Proceedings of the National Academy of Science, U.S.A.*, 110, 17101-17106.
- Satpute, A. B.**, Badre, D., & Ochsner, K. N. (2013). Distinct regions of prefrontal cortex are associated with the controlled retrieval and selection of social information. *Cereb Cortex*. doi: 10.1093/cercor/bhs408
- Creswell, J. D., Bursley, J. K., & **Satpute, A. B.** (2013). Neural reactivation links unconscious thought to decision-making performance. *Soc Cogn Affect Neurosci*. doi: 10.1093/scan/nst004
- Barrett, L. F., & **Satpute, A. B.** (2013). Large-scale brain networks in affective and social neuroscience: towards an integrative functional architecture of the brain. *Curr Opin Neurobiol*, 23, 361-372. doi: 10.1016/j.conb.2012.12.012
- Satpute, A. B.**, Shu, J. \*, Weber, J., Roy, M., & Ochsner, K. N. (2012). The Functional Neural Architecture of Self-Reports of Affective Experience. *Biol Psychiatry*, 73, 631-638. doi: 10.1016/j.biopsych.2012.10.001
- Satpute, A. B.**, Mumford, J. A., Naliboff, B. D., & Poldrack, R. A. (2012). Human anterior and posterior hippocampus respond distinctly to state and trait anxiety. *Emotion*, 12(1), 58-68. doi: 10.1037/a0026517
- Spunt, R. P., **Satpute, A. B.**, & Lieberman, M. D. (2011). Identifying the what, why, and how of an observed action: an fMRI study of mentalizing and mechanizing during action observation. *J Cogn Neurosci*, 23(1), 63-74. doi: 10.1162/jocn.2010.21446
- Rameson, L. T., **Satpute, A. B.**, & Lieberman, M. D. (2010). The neural correlates of implicit and explicit self-relevant processing. *Neuroimage*, 50(2), 701-708. doi: 10.1016/j.neuroimage.2009.12.098
- Tabibnia, G., **Satpute, A. B.**, & Lieberman, M. D. (2008). The sunny side of fairness: preference for fairness activates reward circuitry (and disregarding unfairness activates self-control circuitry). *Psychological Science*, 19(4), 339-347. doi: 10.1111/j.1467-9280.2008.02091.x
- Satpute, A. B.**, & Lieberman, M. D. (2006). Integrating automatic and controlled processes into neurocognitive models of social cognition. *Brain Res*, 1079(1), 86-97. doi: 10.1016/j.brainres.2006.01.005
- Satpute, A. B.**, Fenker, D. B., Waldmann, M. R., Tabibnia, G., Holyoak, K. J., & Lieberman, M. D. (2005). An fMRI study of causal judgments. *Eur J Neurosci*, 22(5), 1233-1238. doi: 10.1111/j.1460-9568.2005.04292.x
- Eisenberger, N. I., Lieberman, M. D., & **Satpute, A. B.** (2005). Personality from a controlled processing perspective: an fMRI study of neuroticism, extraversion, and self-consciousness. *Cogn Affect Behav Neurosci*, 5(2), 169-181.
- Braver, T. S., **Satpute, A. B.**, Rush, B. K., Racine, C. A., & Barch, D. M. (2005). Context processing and context maintenance in healthy aging and early stage dementia of the Alzheimer's type. *Psychol Aging*, 20(1), 33-46. doi: 10.1037/0882-7974.20.1.33

Lieberman, M. D., Jarcho, J. M., & **Satpute, A. B.** (2004). Evidence-based and intuition-based self-knowledge: an fMRI study. *J Pers Soc Psychol*, 87(4), 421-435. doi: 10.1037/0022-3514.87.4.421

### Articles Drafted, Submitted, or Under Review

\*Wang, Y., Kragel, P. A., & **Satpute, A. B.** (under review). Neural predictors of subjective fear depend on the situation. *Archive available:*

<https://www.biorxiv.org/content/10.1101/2022.10.20.513114v1.abstract>

\*Lee, A. S. \*, \*McVeigh, K. \*, \*Garcia, M. S., \*Carrillo, V., \*Kim, J., & **Satpute, A. B.** (revise and resubmit). Disentangling valence in emotion knowledge: The good, the pleasant, and the desirable.

### Articles Not Reviewed

**Satpute, A. B.** (2018). Introduction to the special issue on language and emotion. *Emotion Review*, 10, 99-100.

### Book Chapters

**Satpute, A. B.**, \*Nook, E., & \*Cakar, M. (2020). The role of language in the construction of emotion and memory: A predictive coding view. *The Neuroscience of Enduring Change*. Eds. Richard Lane, Lee Ryan, Lynn Nadel, Les Greenberg. Oxford University Press, Oxford, England.

**Satpute A.B.**, Wilson-Mendenhall C.D., Kleckner I.R. and Barrett L.F. Emotional experience. In: Arthur W. Toga, editor. *Brain Mapping: An Encyclopedic Reference*. Academic Press: Elsevier; 2015. pp. 65-72.

Clark-Polner, E., Wager, T. D., **Satpute, A. B.**, & Barrett, L. F. (2016). The brain basis of affect, emotion, and emotion regulation: Current issues. In M. Lewis, J. Haviland-Jones & L. F. Barrett (Eds.), *Handbook of emotions (4th ed.)*. New York, NY: The Guilford Press.

Lindquist, K. A., Gendron, M., & **Satpute, A. B.** (2016). Language and emotion. *The Handbook of Emotion*. In M. Lewis, J. Haviland-Jones & L. F. Barrett (Eds.), *Handbook of emotions (4th ed.)*. New York, NY: The Guilford Press.

**Satpute, A. B.**, Badre, D., & Ochsner, K. N. (2012). The Neuroscience of Goal-Directed Behavior. In H. Aarts & A. Elliot (Eds.), *Goal-directed Behavior (Frontiers of Social Psychology)* (pp. 49-84). London, UK: Psychology Press.

### Invited Talks

2023 Princeton Summit on Affective Science  
2022 Social Brown Bag, Harvard University, MA  
2021 Science Bites, Northeastern University, MA  
2021 Social Area Meeting, Yale University, CT  
2021 Social/Cognition and Neuroscience Talk Series, Temple University, PA  
2021 Social Brown Bag, Rice University, TX  
2018 Social Brown Bag, Harvard University, MA  
2017 Neuroscience of Enduring Change Meeting, University of Arizona, Tucson, AZ  
2016 Applied Psychology Conference, Claremont Graduate University, Claremont, CA  
2016 Physiologically Aware Virtual Agents Pre-Conference, Intelligent Virtual Agents, USC Institute for Creative Studies, Los Angeles, CA

- 2015 Social Colloquium, UCLA
- 2015 Psychiatry Grand Rounds, Queen's University at Kingston, Canada
- 2014 Social Psychology Brown Bag, Claremont Graduate University, Claremont, CA
- 2014 Social Psychology Brown Bag, University of Massachusetts, Amherst, MA
- 2011 Dynamic Learning Lab (PI: Jennifer Mangels), CUNY, New York
- 2011 Neuroscience Colloquium, City University of New York
- 2011 Cornell Medical College, Sackler Institute, New York
- 2011 Social Psychology Seminar, Dartmouth College
- 2010 Cognitive Neuroscience Lab, Columbia University, New York

### Conference Organizer

2023 *Princeton Summit on Affective Science*. Co-organizer with Erik Nook.

### Conference Symposia Chair

- 2023 *Social and Affective Neuroscience Society*. Equity, Diversity, Inclusion, and Justice (EDIJ) Town Hall.
- 2021 *European Society for Cognitive and Affective Neuroscience*. Using data-driven approaches to reveal the structure of emotion. Virtual Conference
- 2018 *Association for Psychological Science*. The neural basis of fear experience. San Francisco, CA
- 2013 *Cognitive Neuroscience Society 20<sup>th</sup> Annual Meeting*. The neural dialogue between concepts and affective responses. San Francisco, CA

### Conference Talks

- Nook, E. C., **Satpute, A. B.**, & Ochsner, K. N. (2023). What words help us feel better? Opposite impacts of emotion naming and linguistic distancing on emotion regulation. *Association for Psychological Science*. Washington, D.C.
- Satpute, A. B.** (2022). Situational Variance in the Functional Neural Predictors of Fear. *American Psychological Association*, Minneapolis, MN.
- Satpute, A. B.** (2021). Degeneracy in neural models of affect and emotion. *European Society for Cognitive and Affective Neuroscience*, Budapest, Hungary.
- Satpute, A. B.** (2018). Neuroimaging the Subjective Experience of Fear. *Association for Psychological Science Annual Conference*, San Francisco, CA.
- Satpute, A. B.** (2018). Expectations and experiences of fear: Dimensional contributions and neural underpinnings. *European Society for Cognitive and Affective Neuroscience*, Leiden, Netherlands.
- Satpute, A. B.** & Ciric, R. (2017). Contextual connectivity: A framework for understanding the intrinsic dynamic architecture of functional networks. *Social and Affective Neuroscience Society*, Los Angeles, CA.
- Satpute, A. B.** (2014). Identifying discrete functional subregions of the human periaqueductal gray using 7 Tesla MRI Scanning. *Society for Affective Science*, Washington D.C.
- Satpute, A. B.** (2014). Identifying discrete functional subregions of the human periaqueductal gray using 7 Tesla MRI Scanning. *Society for Neuroscience*, Washington D.C.
- Satpute, A. B.** (2014). Making social judgments involves distinct kinds of control processes. *Society for Personality and Social Psychology*, San Antonio, TX.

- Satpute, A. B.** (2013). The neural dialogue between concepts and affective responses. *Cognitive Neuroscience Society 20th annual meeting*. San Francisco, CA.
- Satpute, A. B.** (2012). Language shapes emotional experience. *Consortium for European Research on Emotion*, University of Kent, UK.
- Satpute, A. B.** (2012). Language shapes emotional experience. *Social and Affective Neuroscience Society*, New York, NY.
- Satpute, A. B.** (2012). Neuroimaging the periaqueductal gray. *Social Brain Sciences Symposium*, Harvard University, Cambridge, MA.

### Conference Abstracts

- \*Nandru, R., \*Iancarelli, A., **Satpute A. B.**, (2022) *The effect of gaze fixation on victim-blaming*, Society for Affective Sciences (SAS) conference.
- \*Li, Z., \*Iancarelli, A., **Satpute A. B.**, (2022) *Victim Blaming is context-dependent under the influence of fairness and Just-World Theory*, Society for Affective Sciences (SAS) conference.
- \*Iancarelli, A., \*Fiedler, S., \*Lee, K., **Satpute, A. B.** (2022) *The causal relation between Fear and Physical Punishment Acceptance*, Society for Affective Sciences (SAS) conference.
- \*Iancarelli, A., \*Lee, K., \*McVeigh, K., \*Mangelinkx, K. **Satpute, A. B.** (2021). Anger and Fear Differently Predict Punishment Acceptance during COVID-19. *Society for Affective Science Annual Conference*, Virtual Meeting.
- \*#Li, Z., \*#Christiano, C., \*Nandru, R., \*Iancarelli, A., **Satpute, A. B.** (2021). The Role of Uncertainty and the Just-World Belief in Victim-Blaming. \*Authors contributed equally. *Society for Affective Science Annual Conference*, Virtual Meeting.
- Hegefeld, H.M., **Satpute, A.B.**, Ochsner, K.N., #Nook, E.C., #Davidow, J.Y. (2022). Investigating emotion fluency's relations with verbal fluency and emotional functioning. *Society for Affective Science Annual Conference*, Virtual Meeting.
- \*Fiedler, S., \*Christenson, L., \*MacPherson, A., \*Lee, K., & **Satpute A. B.** (2021, May 26-27) *A Novel Method for Measuring Emotion Abstraction: The Affective Abstraction Classification Task (A-ACT)*. APS Virtual Convention.
- \*Diederich, E., \*Wang, Y., \*McVeigh, K., **Satpute, A. B.** (2020, October 24). *Patterns of Electrodermal Activity During Context Dependent Fear*. New England Psychological Association 2020 Conference.
- \*Iancarelli A., & **Satpute A. B.**, (2020). On Human Aggression: A Network Approach to the Literature. Accepted for presentation at the *Association for Psychological Science*, Chicago, IL
- \*Lee K. M., \*Lee, A. S., & **Satpute, A. B.**, (April, 2020). The Good, the bad, and the (un)pleasant: The PFC in hedonic and evaluative emotion knowledge. Accepted for presentation at the *Society for Affective Science*, San Francisco, CA
- \*Lee K. M., \*Lee, A. S., & **Satpute, A. B.**, (February, 2020). The Good, the bad, and the (un)pleasant: The PFC in hedonic and evaluative emotion knowledge. Presented at the *Emotion Preconference* at the *Society of Personality and Social Psychology*, New Orleans, LA
- \*Wang, Y., \*Khan, Z., Sennesh, E., Dy J., van de Meent, J., Hutchinson, J. B., & **Satpute, A. B.** (2020). Modeling Degenerate Neural Architecture Using Neural Topographic Factor Analysis. *Cognitive Neuroscience Society Annual Meeting*, Boston, MA
- \*Wang, Y., \*Khan, Z., Sennesh, E., Dy J., van de Meent, J., Hutchinson, J. B., & **Satpute, A. B.**

- (2020) Modeling distributed neural correlates of fear using Neural Topographic Factor Analysis. *Society for Affective Science Annual Meeting*, San Francisco, CA
- \*Wang, Y., & **Satpute, A.B.** (2019) A degenerate neural model of fear experiences (2019). Organization of Human Brain Mapping Annual Meeting, Italy.
- \*Wang, Y., \*Boatman, G., & **Satpute, A.B.** (2019) The neural basis of fear experience: A distributed and degenerate model. Social and Affective Neuroscience Society Annual Meeting, Miami, FL
- \*Wang, Y., \*Boatman, G., & **Satpute, A. B.** (2019). Different varieties of fear engage distinct distributed neural activation patterns. Society for Affective Science Conference Abstracts.
- \*Boatman, G., & **Satpute, A. B.** (2018). Beyond Valence and Arousal in Phobia: Identifying the Unique Contributions of Trait Phobia to Experienced Fear. To be presented at the American Psychological Society annual conference.
- \*Lee, A., & **Satpute, A. B.** (2018). Distinguishing the Evaluative and Hedonic Values of Emotions. To be presented at the American Psychological Society annual conference
- \*Hartley, L., Bianciardi, M., Choi, J-K., Zhang, J., Lyons, S., Wald, L. L., Wager, T. D., Barrett, L. F., and **Satpute, A. B.** (2018). Investigating the resting state functional connectivity of the human hypothalamus using 7T fMRI. Society for Affective Science
- \*Kragel, P., Hartley, L. Biancardi, M., Wald. L. L., Wager, T. D., Barrett, L. F., **Satpute, A. B.** (2018) Investigating the functional significance of frontal-brainstem pathways in the N-back task using 7T fMRI. Society for Affective Science
- Israelashvili, J. & **Satpute, A. B.** (2017). The role of emotional complexity and perceived shared experience in empathic accuracy. Society for Personality and Social Psychology, Emotion Pre-Conference.
- \*Ciric, R., Nomi, J. S., Uddin, L. Q., & **Satpute, A. B.** (2015). Contextual connectivity: Intrinsic dynamic architecture of large-scale functional brain networks. Society for Neuroscience Conference Abstracts.
- \*Lee, A. S., \*Garcia, M. S., \*Carrillo, V. L., & **Satpute, A. B.** (2015). Lust is Pleasant, but does that Make it Good? Examining the Relationship between Evaluative and Hedonic Judgments of Emotion. Society for Personality and Social Psychology, Emotion Pre-Conference, Long Beach, CA.
- Wilson-Mendenhall, C.D., Betz, N., Gendron, M., **Satpute, A. B.**, & Barrett, L.F. (April 2015). How do pleasant experiences compare? Examining the neural bases of aesthetics and amusement. Society for Affective Science, San Francisco, CA.
- Greisemer, I., Nook, E. C., **Satpute, A. B.**, Friedlander, R., & Ochsner, K. N. (2014). Let's talk about feelings: Differential consequences of four methods of affect labeling. Poster for the Society for Personality and Social Psychology's Annual Meeting, Austin, TX.
- \*Nook, E. C., **Satpute, A. B.**, & Ochsner, K. N. (2013). Don't say it: Self-Generated Emotion Naming Impedes Emotion Regulation in Short Timeframes. Poster for the Cognitive Neuroscience Society's Annual Meeting, San Francisco, CA.
- Moghadamfalahi, M., **Satpute, A. B.**, Akcakaya, M., Brooks, D., Dy, J., Erdogmus, D., Barrett, L. F. (2013). Are affective responses in fMRI independent of previous affect-inducing stimuli? Organization for Human Brain Mapping Conference Abstracts.
- Satpute, A. B.**, \*Daruwala, T., Wager, T. D., & Barrett, L. F. (2013) A meta-analysis of neuroimaging studies of affect across the modalities. Society for Personality and Social Psychology Conference Abstracts.



- Atzil, S., **Satpute, A. B.**, Wilson-Mendenhall, C., Wager, T., & Barrett, L. F. (2013). A social dimension to the affective circumplex. Social and Affective Neuroscience Society Conference Abstracts.
- Atzil, S., **Satpute, A. B.**, Wager, T., Barrett, L. F. (2013) Endogenously driven affective processing: A meta-analysis. Cognitive Neuroscience Society Conference Abstracts.
- Satpute, A. B.**, Cohen-Adad, J., Wager, T., Bianciardi, M., Choi, J-K., Buhle, J., Wald, L., & Barrett, L.F. (2013). High-resolution functional neuroimaging at 7 Tesla shows definitive activation in periaqueductal grey (PAG) columns to affective images. Social and Affective Neuroscience Society Conference Abstracts.
- \*Nook, E. C., **Satpute, A. B.**, Narayanan, S., Weber, J., & Ochsner, K. N. (2012). Facing your fears: a behavioral and neuroimaging exploration of the role of trait anxiety in ignoring irrelevant fear expression. Poster for the Social and Affective Neuroscience Society's Annual Meeting, New York, NY.
- \*Nook, E. C., **Satpute, A. B.**, Narayanan, S., Weber, J., & Ochsner, K. N. (2012). Pushing fear aside: neural regions involved in ignoring irrelevant fear expressions. Poster for the Cognitive Neuroscience Society's Annual Meeting, Chicago, IL.
- Satpute, A. B.**, Weber, J., & Ochsner, K. N. (2011). Language shapes emotional experience. When saying it's bad makes it so. Wisconsin Emotion Symposium.
- \*Narayanan, S., **Satpute, A. B.**, & Ochsner, K. N. (2011). Neural regions responsive to conflict between emotional categorization and emotional experience. Organization for Human Brain Mapping Conference Abstracts.
- Satpute, A. B.**, Badre, D., & Ochsner, K. N. (2010). Dorsomedial and ventromedial prefrontal cortex differentially respond to the controlled retrieval and selection of social information. Social and Affective Neuroscience Society Conference Abstracts.
- \*Shu, J., **Satpute, A. B.**, Weber, J., & Ochsner, K. N. (2010). Trait alexithymia is related to decreased activity in a cognitive control/language network but increased activity in a cognitive control/inhibitory network when making more granular judgments of emotional states. Social and Affective Neuroscience Society Conference Abstracts.
- Satpute, A. B.**, \*Shu, J., Weber, J., Roy, M., & Ochsner, K. N. (2010). Disentangling the neural regions involved in the attention to and categorization of emotional experience. Society for Neuroscience Conference Abstracts.
- Satpute, A. B.**, Naliboff, B. D., Mumford, J. A., & Poldrack, R. A. (2009). Integration of anxiety and memory in anterior and posterior hippocampus. Social and Affective Neuroscience Conference Abstracts.
- Satpute, A. B.**, \*Zabat-Fran, A., Naliboff, B. N., & Poldrack, R. A. (2009). Anxiety modulates hippocampal involvement in classification learning and explicit memory. Cognitive Neuroscience Society Abstracts.
- Spunt, R. P., Lieberman, M. D., & **Satpute, A. B.** (2008). Describing the why, what and how of action: an fMRI study of action identification. Poster presentation at the Social and Affective Neuroscience Conference, Boston, MA.
- Rameson, L., **Satpute, A. B.**, & Lieberman, M. D. (2008). The role of emotional neural circuits in enhancing memory for self-relevant information. Poster presented at the Emotion Preconference of the annual meeting of the Society for Personality and Social Psychology, Albuquerque.

Eisenberger, N. I., **Satpute, A. B.**, & Lieberman, M. D. (2003). Self-awareness of arousal states and the anterior cingulate cortex: An fMRI study of personality. Cognitive Neuroscience Society Abstracts.

**Satpute, A. B.**, Braver, T. B., & Barch, D. M. (2002). Dorsolateral prefrontal cortex dysfunction in healthy aging and early-state DAT. Cognitive Neuroscience Society Abstracts.

## GRANTS

### External

National Science Foundation (2241938), Division of Behavioral and Cognitive Science. *Addressing the generalization problem in neural models of fear* (8/1/2023-7/31/2026; Direct: \$464,940, Total: \$729,956). Role: PI with Quigley, K. (co-PI).

National Science Foundation (1947972), Division of Behavioral and Cognitive Science, *The brain basis of emotion: A category construction problem* (9/1/2020 – 8/31/2023; Direct: \$514,999, Total: \$799,998). Role: PI with Barrett, L. F. (co-PI), and Erdogmus, D. (co-PI).

National Institutes of Health (U01CA193632), National Cancer Institute, *Fundamental Subcortical Mechanisms in Affective Processing* (04/22/2016-03/31/2022; Total: \$3,401,125). Role: co-PI with Barrett, L. F. (PI), Wald, L. L. (co-I), Bianciardi, M. (co-I), and Wager, T. D. (co-I).

National Science Foundation (1835309), Division of Graduate Education, *Leveraging Deep Probabilistic Models to Understand the Neural Bases of Subjective Experience* (8/15/2018 – 7/31/2021; Total: \$999,375). Role: PI, with van de Meent, J. W. (co-PI), Dy, J. (co-PI), Hutchinson, B. (co-PI), and Ostaddabas, S. (co-PI).

Grammy Foundation, *Musical Anhedonia and the Specificity of Musical Reward* (7/1/2019 – 6/30/2021; Total: \$20,000). Role: co-I, with Loui, P. (PI).

### *Funded Trainee Grants*

F32 NRSA Post-doc Fellowship (awarded to Kent Lee). Role: primary mentor with Dy, J.

F32 NRSA Post-doc Fellowship (awarded to David Melnikoff). Role: co-mentor with Barrett, L. F.

## TEACHING AND ADVISING

### Courses

*At Northeastern University (2017-present)*

Seminar in Social Psychology (PSYC4664)

Seminar in Biology of Behavior: Social and Affective Neuroscience (PSYC7240)

Statistics in Psychological Research (PSYC2320)

Seminar in Cognitive Neuroscience (PSYC4674)  
Seminar in Social and Affective Neuroscience (PSYC4678)  
Emotion (PSYC1300)  
Advanced Quantitative Analysis: Neuroimaging Analysis (PSYC7300)

*At Pomona College (2014-2017)*

Introduction to Psychology (PSYC051)  
Emotion + Emotion Lab (PSYC163), *new course*  
Seminar in Affective Neuroscience (PSYC180D), *new course*  
Neuroimaging + Neuroimaging Lab (NEUR153), *new course*  
Introduction to Statistics (PSYC158)  
Emotional and Social Intelligence (PSYC151), *new course*

### Supervision of Graduate Students and Postdoctoral Trainees

*Postdoctoral Trainees, Primary Mentor*

Kent Lee, 2019-present  
Rose Cooper, 2021-2022

*Postdoctoral Trainees, Collaborative Mentor*

David Melnikoff, 2019-2022  
Jordan Theriault, 2017-2022  
Phil Kragel, 2016-2018

*Graduate Students, Primary Mentor*

Kieran McVeigh, 2019-present  
Alessia Iancarelli, 2018-present  
Yiyu Wang, 2017-present

*Graduate Students, Collaborative Mentor*

Danlei Chen, CoS, 2020-present  
Ashutosh Singh, ECE, 2019-present  
Zulqarnain Khan, ECE, 2018-present  
Christi Westlin, CoS, 2018-present

*PhD Committees*

Nicole Betz  
Arnold Chang  
Danlei Chen  
Jingyi He  
Katie Hoemann  
Francesca Morfini  
Catie Nielson  
Kathryn Ossenfort  
Dylan Rose  
Gwendolyn Sandoboe  
Daniel Westfall

Christi Westlin  
Yiyu Wang  
Hannah Wolfe

*Additional Post-graduate Supervision*

Summer Bootcamp in Computational Modeling and Psychology, 15 Trainees

Advising Activities

*Years mentored, degree status, and subsequent or most recent position.*

*Northeastern University*

Donnell Weldon, 2021-, in prog.  
Rosa Hamilton-Leak, 2021-, in prog.  
Briana Murphy, 2021-, in prog.  
Sacha Sergeant, 2021-, in prog.  
Nasim Sheikhi, 2021-, in prog.  
Serena Benjamin, 2021-, in prog.  
Cassandra Stent-Torrini, 2021-, in prog.  
Mariana Fonseca, 2021-, in prog.  
Paramjai Sandhu, 2021-, in prog.  
Jvalanti Prasad, 2021-, in prog.  
Maria Harsvik, 2021-, in prog.  
Catherine Schuessler, 2021-, in prog.  
Nihal Chaudhary, 2021-, in prog.  
Alexandra Norce, 2021-2021  
Yueting Lu, 2021-, in prog.  
Rachel Feiner, 2021-, in prog.  
Lauren Christenson, 2020-2021  
Abigail MacPherson, 2020-2021  
Rasvitha Nandru, 2020-, in prog.  
Ellie Diederich, 2020-2021  
Caitlyn Christiano, 2020-2020  
Ilana Korogodsky, 2020-2021  
Olivia Romvos, 2020-2020  
Zhaolin Li, 2020-, in prog.  
Samantha Won, 2020-, in prog.  
Laura Whitley, 2020-2020  
Haden Pelletier, 2020-2020  
Dinna Khrapko, 2020-2020  
Jeremiah Isaac, 2020-2020  
Kaitlyn Mangelinkx, 2020-2020  
Joshua Rodriguez, 2020-2020  
Maya Sundel, 2019-2020

Alia Newman-Boulle, 2019-2020

Victoria Pajak, 2018-2020

Katarina Radisic, 2018

Aditi Lohe, 2018-2019

Ivy Chung Yung Lee, 2019-2020

Carmen Bango, 2018-2019, B.A., research assistant, Dartmouth College

*Pomona College*

Olivia Cornfield, 2016-2017, B.A., student at Harvard's Graduate School of Education

Candice Wang, 2016-2017, PhD student, Duke University

Alessandra Yu, 2016-2017, PhD student, Icahn School of Medicine

Mark Penrod, 2016-2016, B.A.

Fran Querdasi, 2015-2019, B.A., PhD Student, UCLA

Grace Boatman, 2016-2017, B.S., Graduate School in Data Science

Colin Eckstein, 2016-2017, B.S., Graduate School in Theology, Columbia

Aaron Tsai, 2016-2017, B.S., Category Specialist, Jet.com

Kieran McVeigh, 2016-2017, B.A., Lab Manager, Northeastern University

Melis Cakar, 2015-2017, B.S., PhD Candidate, UCLA

Susie Lee, 2015-2017, B.S., Graduate School in Data Science, UCL

Jeanie Kim, 2015-2016, high school student, Undergraduate at Rice U

Alex Lee, 2014-2017, B.S., PhD Candidate, U. of Pittsburgh

Julie Shrieve, 2014-2016, B.S., Cognitive Researcher and Educator

Rastko Ciric, 2014-2016, B.S., PhD Candidate, Stanford University

Vivian Carrillo, 2014-2016, B.S.

Maxine Garcia, 2014-2016, B.S., Medical School

*Northeastern University, Research Mentor during my role as Senior Research Scientist*

Jessica Mecklosky, 2013-2014, B. S., Student MD/MPh, Tulane University

Stephanie Dalsheim, 2012-2013, B.S., MSW

Dalal Alhomeizi, 2012-2014, PhD candidate in Clinical Psychology

*Columbia University, Research Mentor during my role as Post-Doc*

Lucy Edwards, 2010-2011, B.S., medical school

Jocelyn Shu, 2009-2011, PhD, Postdoc at Harvard

Isabelle Carren-LeSauter, 2009-2011, MS-RD Resident, Nutrition

Leor Hackel, 2009-2011, Assistant Professor, USC (as of fall, 2019)

Erik Nook, 2009-2011, PhD candidate in Clinical Psychology

Lindsey Sommer, 2009-2011, M.L.I.S., Library and Information Science

Marwa El Zein, 2010, PhD, PostDoc UCL

*UCLA, Research Mentor during my role as Graduate Student*

Sherry Wang, 2007-2008, J.D.

Jessica Warman, 2006-2008, NPI, Nursing

Ember Destefani, 2006-2008, NPI, Nursing

Alexa Zabat-Fran, 2006-2008, M.S. Nuclear Medicine Technologist  
Robert Spunt, 2001-2002, PhD in Psychology, Senior Research Scientist, Adobe

## SERVICE AND PROFESSIONAL DEVELOPMENT

### Service to the Institution

#### *Department Service*

2022-2023	Psychologists for Inclusion and Equity Committee
2021-2022	Psychologists for Inclusion and Equity Committee
2020-2021	Psychologists for Inclusion and Equity Committee
2019-2020	Psychologists for Inclusion and Equity Committee
2019-2020	Psychology Department Merit Committee
2019-2020	Social Psychology Area Meeting Coordinator
2018-2019	Psychology Department Merit Committee
2018-2019	Search Committee, Psychology (Cognitive)
2018-2019	Psychologists for Inclusion and Equity Committee
2017-2018	Psychologists for Inclusion and Equity Committee

#### *College Service*

2022-2023	EDIJ Committee
2021-2022	EDIJ Committee
2022	NU's Welcome Day for Prospective Students, Faculty Presenter
2021-2022	INVEST Search Committee
2020-2021	INVEST Search Committee
2019	NU's Welcome Day for Prospective Students, Faculty Presenter
2018-2019	College Council

#### *University Service*

2021-	Institute for Experiential Artificial Intelligence, Core Faculty
2019-2020	Experiential AI Postdoctoral Researcher Search Committee

### Service to the Discipline/Profession

2023	NSF Panel Review
2023	NIH Panel Review
2023-2024	Chair, EDIJ Task Force, Social and Affective Neuroscience Society
2023-2025	Director-at-Large, Social and Affective Neuroscience Society
2023-present	Associate Editor, Emotion
2021-present	Consulting Editor, Psychological Review
2021	NSF Panel Review
2017-present	Associate Editor, Social Cognitive and Affective Neuroscience
2021	Preconference Committee Chair, Society for Affective Science
2021	NSF Panel Review
2020	Preconference Committee Co-Chair, Society for Affective Science
2020	NSF Panel Review
2020	NIH Panel Review, Human Complex Mental Functions

- 2019 NIH Panel Review, Cognition and Perception
- 2019 Interviewer for *A Conversation with Chuck Carver* at the Social and Affective Neuroscience Society Conference.
- 2017 Guest Editor, Special Issue on Emotion and Language, *Emotion Review*

*Ad-hoc Journal Reviewer:* Affective Science; Biological Psychiatry; Brain Research; Clinical Psychology Review; Cognitive, Affective, and Behavioral Neuroscience; Cerebral Cortex; Cognition and Emotion; Current Biology; Emotion; Emotion Review; Human Brain Mapping; IEEE, Transactions on Affective Computing; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Personality; Nature Human Behavior; Neuroscience and Biobehavioral Reviews; Neuropsychologia; Philosophical Transactions of the Royal Society B: Biological Sciences; PLOS One; Proceedings of the National Academy of Sciences, U.S.A.; Psychological Bulletin; Psychological Science; Psychological Review; Psychophysiology; Review of General Psychology; Science Advances; Science Magazine; Scientific Reports; Social, Cognitive, and Affective Neuroscience; Social Neuroscience; Trends in Cognitive Sciences; Oxford University Press (guest editor for Howard Gardner's e-book on Emotional Intelligence);

### Service to the Community/Public

- 2023 Interviewee, Institute for Experiential Artificial Intelligence, NU
- 2023 Interviewee, News@NU
- 2022 Interviewee, *Minds Matter*, podcast
- 2022 Interviewee, *Freakonomics, M.D.* podcast
- 2022 Invited Speaker, *NEURONS*, NU science outreach group
- 2022 Interviewee, News@NU
- 2022 Interviewee, Institute for Experiential AI at NU
- 2021 Invited Panelist, *STEMpower*. Science enrichment program for high school students in Roxbury
- 2020 Interviewee, *The Actor's Mind*, podcast
- 2020 Interviewee, News@NU
- 2018 Presenter, *Meet the Scientists*, public outreach event, Discovery Science Museum, Acton, MA. <https://www.discoveryacton.org/event/meet-scientists-6>
- 2017 Wikipedia Contributions. Advised students in publishing the first Wikipedia page on the topic "Predictive Coding" (224,000+ page views and climbing): [https://en.wikipedia.org/wiki/Predictive\\_coding](https://en.wikipedia.org/wiki/Predictive_coding)
- 2017 Interviewee, News@NU
- 2016 Invited Speaker, *Inventio!Brains CHAT* at the George Greenstein Institute, CA.

### Professional Development

#### *Society Memberships*

- American Psychological Association (APA)
- Cognitive Neuroscience Society (CNS)
- Organization for Human Brain Mapping (OHBM)
- Social and Affective Neuroscience Society (SANS)
- Society for Affective Science (SAS)
- Society for Neuroscience (SfN)

Society for Personality and Social Psychology (SPSP)  
Faculty for Undergraduate Neuroscience (FUN)

*Additional Training*

2019 National Center for Faculty Development and Diversity, Bootcamp  
2019 Discovery Museum Science & Engineering Communication Fellow

*Diversity, Inclusion, and Equity Training*

2022 Attendee, *Diversity Symposium*, Social and Affective Neuroscience Society  
2021 Attendee, *From Accessibility to Inclusion*, panel discussion, NU Advance Office  
2020 Attendee, *Becoming an Antiracist Educator*. NU's Center for Advanced Teaching and Learning Research (CATLR) in collaboration with the Center for Intercultural Engagement and Social Justice Resources (CIE-SJRC).  
1997 Counsellor, ANYTOWN, *Anti-prejudice Leadership Training Camp*  
1996 Counsellor, ANYTOWN, *Anti-prejudice Leadership Training Camp*  
1995 Delegate, ANYTOWN, *Anti-prejudice Leadership Training*