

August 2019

JOSEPH E. DUNSMOOR, Ph.D.
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PROFESSIONAL APPOINTMENTS

2017- Present **University of Texas at Austin**
Assistant Professor
Department of Psychiatry, Dell Medical School
Appointments in Department of Psychology, Institute for Neuroscience,
and Center for Learning and Memory

2012 - 2017 **New York University**
Postdoctoral Researcher, Department of Psychology
Laboratory of Elizabeth A. Phelps

EDUCATION & TRAINING

2012 **Duke University**
Ph.D., Psychology & Neuroscience
Advisor: Kevin S. LaBar

2005-2007 **National Institute of Mental Health (Bethesda, MD)**
Postbaccalaureate Intramural Research Training Award (IRTA) Fellow
Laboratory of Brain and Cognition/Functional Imaging Methods
Advisor: Peter A. Bandettini

2004 **James Madison University**
B.S., Psychology

HONORS, FELLOWSHIPS, & MAJOR GRANTS

2019- National Science Foundation CAREER Award (PI)
2019 Society of Biological Psychiatry Chair's Choice Travel Award
2018- NARSAD Young Investigator Award (PI)
2018 Invitation to Memory Disorders Research Society (MDRS)
2017- NIH R00MH106719 (PI)
2016 American College of Neuropsychopharmacology Travel Awardee
2015-2017 NIH K99 Pathway to Independence Award - K99MH106719 (PI)
2013-2014 NIH Training Award in Systems and Integrative Neuroscience -
T32 MH019524
2011 American Psychological Association Dissertation Research Award
2010-2012 Individual NIH Predoctoral National Research Service Award (NRSA) -
F31 MH090682 (PI)
2009 Mentoring fellowship, Duke University
2005 Postbaccalaureate Intramural Research Training Award (IRTA), National
Institutes of Health

PEER REVIEWED ARTICLES

1. Keller NE, Hennings AC, & **Dunsmoor JE** (under review). Behavioral and neural processes in counterconditioning: past and future directions.
2. Hennings AC, McClay M, Lewis-Peacock JA, & **Dunsmoor JE** (submitted). Neural reinstatement guides context-dependent emotional memory retrieval.
3. Keller NE & **Dunsmoor JE** (submitted). Effects of aversive-to-appetitive counterconditioning on implicit and explicit fear.
4. McClay M, Reidel A, Hennings AC, & **Dunsmoor JE** (in prep). The features that shape fear: How emotional intensity and threat relevance interact to guide fear learning.
5. Steinman SA, **Dunsmoor JE**, Yerimbatova Z, Stovetsky Y, Pascucci O, Pomerenke J, Phelps EA, Fyer A, & Simpson HB (In Revision). Novelty does not facilitate extinction in Individuals with Anxiety Disorders or Obsessive-Compulsive Disorder. *Behavior Research & Therapy*.
6. **Dunsmoor JE**, Kroes MCW, Li J, Daw N, Simpson HB, & Phelps EA (2019). The role of the ventromedial prefrontal cortex in enhanced fear extinction. *Journal of Neuroscience*, 39, 3264-3276.
7. Soriano-Mas C, Picó M, Alemany-Navarro M, Vervliet B, Albajes-Eizagirre A, Cardoner N, Benet O, Radua J, **Dunsmoor JE**, Harrison B, Fullana MA (2019). Common and distinct neural correlates of fear extinction and cognitive reappraisal: a meta-analysis of fMRI studies. *Neuroscience & Biobehavioral Reviews*. [e-pub ahead of print]
8. Kroes MCW, **Dunsmoor JE**, Hakimi M, Oosterwaal S, NYU PROSPEC collaboration, Meager MR, & Phelps EA (2019). Patients with dorsolateral prefrontal cortex lesions are capable of discriminatory threat learning but appear impaired in cognitive regulation of subjective fear. *Social, Cognitive, and Affective Neuroscience*. [e-pub ahead of print]
9. Starita F, Kroes MCW, Davachi L, Phelps EA, & **Dunsmoor JE** (2019). Threat learning enhances generalization of episodic memory. *Journal of Experimental Psychology: General*. [e-pub ahead of print]
10. **Dunsmoor JE** & Kroes MCW (2018). Episodic memory and Pavlovian conditioning: Ships passing in the night. *Current Opinion in Behavioral Sciences*, 26, 32-39.
11. FeldmanHall O & **Dunsmoor JE** (2018). Viewing adaptive moral choice through the lens of associative learning. *Perspectives on Psychological Science*, 14, 175-196.
12. **Dunsmoor JE**, Kroes MCW, Moscatelli CM, Evans MD, Davachi L, & Phelps EA (2018). Event segmentation protects emotional memories from competing experiences encoded close in time. *Nature Human Behaviour*, 2, 291-299.
13. FeldmanHall O, **Dunsmoor JE**, Tompary A, Hunter LE, Todorov A & Phelps EA (2018). Stimulus generalization as a mechanism for learning to trust. *Proceedings of the National Academy of Sciences*, 115, 1690-1697.

14. **Dunsmoor JE**, Otto AR, & Phelps EA (2017). Stress promotes generalization of older but not recent threat memories. *Proceedings of the National Academy of Sciences*, 114, 9218-9223.
15. FeldmanHall O, **Dunsmoor JE**, Kroes MCW, & Phelps EA (2017). Associative learning of social value in dynamic groups. *Psychological Science*, 28, 1160-1170.
16. Kroes MCW*, **Dunsmoor JE***, Mackey, W., McClay, M. & Phelps EA (2017). Context conditioning in humans using commercially available immersive Virtual Reality. *Scientific Reports*, 7. *equal contribution
17. Kroes MCW, **Dunsmoor JE**, Lin Q, & Phelps EA (2017). An isolated reminder selectively and retroactively strengthens, but does not disrupt, memory for threatening events. *Scientific Reports*, 7.
18. Murphy GL & **Dunsmoor JE** (2017) Do salient features overshadow learning of other features in category learning? *Journal of Experimental Psychology: Animal Learning and Cognition*, 43, 219-230
19. **Dunsmoor JE**, Kroes MCW, Braren S, & Phelps EA (2017). Threat intensity widens fear generalization gradients. *Behavioral Neuroscience*, 131. 168-175.
20. Patil A, Murty VP, **Dunsmoor JE**, Phelps EA, Davachi L (2017). Reward retroactively enhances memory consolidation for related items. *Learning & Memory*, 24. 65-69.
21. **Dunsmoor JE**, Kubota J, Li J, Coelho C, & Phelps EA (2016). Racial stereotypes impair flexibility of emotional learning. *Social Cognitive & Affective Neuroscience*, 11. 1363-1373.
22. **Dunsmoor JE**, Niv Y, Daw N, & Phelps EA (2015). Rethinking extinction. *Neuron*, 88, 47-63.
23. **Dunsmoor JE**, Murty VP, Davachi L, & Phelps EA (2015). Emotional learning selectively and retroactively strengthens episodic memories for related events. *Nature*, 520, 345-348.
24. **Dunsmoor JE** & Paz R (2015). Fear generalization and anxiety: Behavioral and neural mechanisms. *Biological Psychiatry*, 78, 336-343.
25. **Dunsmoor JE**, Campese VD, Ceceli AO, LeDoux JE, & Phelps EA (2015). Novelty-facilitated extinction: Providing a novel outcome in place of an expected threat diminishes recovery of defensive responses. *Biological Psychiatry*, 78, 203-209.
26. **Dunsmoor JE** & Murphy GL (2015). Categories, concepts, and conditioning: How humans generalize fear. *Trends in Cognitive Sciences*, 19, 73-77.
27. Dymond S, **Dunsmoor JE**, Vervliet B, Roche B, & Hermans D. (2015). Fear generalization in humans: Systematic review and implications for anxiety disorder research. *Behavior Therapy*, 46, 561-582.

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28. Coelho C, **Dunsmoor JE**, & Phelps EA (2015). Compound stimulus extinction reduces spontaneous recovery in humans. *Learning & Memory*, 22, 589-593.
29. Morey RA, **Dunsmoor JE**, et al. (2015). Fear learning circuitry is biased toward generalization of fear associations in Posttraumatic Stress Disorder. *Translational Psychiatry*, 5, e700.
30. Åhs F, **Dunsmoor JE**, Zielinski D, & LaBar KS (2014). Spatial proximity amplifies valence in emotional memory and defensive approach-avoidance. *Neuropsychologia*, 70, 476-485.
31. **Dunsmoor JE** & Murphy GL (2014). Stimulus typicality determines how broadly fear is generalized. *Psychological Science*, 25, 1816-1821.
32. **Dunsmoor JE**, Kragel, PA, Martin A, & LaBar KS (2014). Aversive learning modulates cortical representations of object categories. *Cerebral Cortex*, 24, 2859-2872.
33. **Dunsmoor JE**, Åhs F, Zielinski D, & LaBar KS (2014). Extinction in multiple virtual reality contexts diminishes fear reinstatement in humans. *Neurobiology of Learning & Memory*, 113, 157-164.
34. **Dunsmoor JE** & LaBar KS (2013). Effects of discrimination training on fear generalization gradients and perceptual classification in humans. *Behavioral Neuroscience*, 127, 350-356.
35. **Dunsmoor JE** & LaBar KS (2012). Brain activity associated with the omission of an aversive event reveals effects of fear learning and generalization. *Neurobiology of Learning & Memory*, 97, 301-312.
36. **Dunsmoor JE**, Martin A, & LaBar KS (2012). The role of conceptual knowledge in learning and retention of conditioned fear. *Biological Psychology*, 89, 300-305.
37. Cain MS, **Dunsmoor JE**, LaBar KS, & Mitroff SR (2011) Anticipatory anxiety hinders detection of a second target in dual-target search. *Psychological Science*, 22, 866-871.
38. **Dunsmoor JE**, Prince SE, Murty VP, Kragel PA, & LaBar KS (2011) Neurobehavioral mechanisms of human fear generalization. *Neuroimage*, 55, 1878-1888.
39. **Dunsmoor JE**, White AJ, & LaBar KS (2011) Conceptual similarity promotes generalization of higher-order fear learning. *Learning & Memory*, 18, 156-160.
40. **Dunsmoor JE**, & Schmajuk NA (2009) Interpreting patterns of brain activation in human fear conditioning with an attentional-associative learning model. *Behavioral Neuroscience*, 123, 851-855.
41. **Dunsmoor JE**, Mitroff SR, & LaBar KS (2009). Generalization of conditioned fear along a dimension of increasing fear intensity. *Learning and Memory*, 16, 460-469.
42. **Dunsmoor JE**, Bandettini PA, & Knight DC (2008). Neural correlates of unconditioned response diminution during Pavlovian conditioning. *Neuroimage*, 40, 811-817.

43. **Dunsmoor JE**, Bandettini PA, & Knight DC (2007). Impact of continuous versus intermittent CS-UCS pairing on human brain activation during Pavlovian fear conditioning. *Behavioral Neuroscience*, 121, 635-642.

BOOK CHAPTERS AND COMMENTARIES

1. **Dunsmoor JE** & Kroes MCW (In Press). Emotion-memory interactions: implications for the reconsolidation of negative memories. In: *The Neuroscience of Enduring Change*, Lane R, Ryan L, & Nadel L eds. Oxford University Press.
2. Ritchey M, Murty VP & **Dunsmoor JE**. (2017) Adaptive memory systems for remembering the salient and the seemingly mundane. *Behavioral and Brain Sciences*, 39, e221.
3. **Dunsmoor JE** & Paz R (2016). Generalization of learned fear. In: *Neurobiology of PTSD*, Liberzon I & Ressler KJ eds. Oxford University Press.
4. **Dunsmoor JE** & LaBar KS (2013). Neural basis of human fear learning. In: *Handbook of Human Affective Neuroscience*, Vuilleumier P and Armony J eds. Cambridge University Press, pp 419-443.
5. **Dunsmoor JE**, Åhs F & LaBar KS (2011) Neurocognitive mechanisms of fear conditioning and vulnerability to anxiety. *Frontiers Human Neuroscience*, 5, 35.
6. Schmajuk NA, Kutlu MG, **Dunsmoor JE** & Laurrauri, JA (2010). Attention, associations, and configurations in conditioning. In: *Computational Models of Conditioning*, Schmajuk NA ed. Cambridge University Press, pp 186-218.

CONFERENCE AND INVITED TALKS (since 2013)

Dunsmoor JE (2019) Neural reinstatement orchestrates retrieval of extinction memories. *International Society for Research on Emotion, Amsterdam, The Netherlands*.

Dunsmoor JE (2019) Mental context reinstatement balances retrieval of fear versus safety memories in the human brain. *Spring Hippocampal Research Conference, Sicily, Italy*.

Dunsmoor JE (2018) How Pavlovian learning can shape episodic memory. *Affective Brain Lab's Seminar Series, University College London, UK*.

Dunsmoor JE (2018) Maximizing surprise during threat extinction engages the prefrontal cortex and helps prevent the return of fear. *Association for Psychological Science, San Francisco, CA*.

Dunsmoor JE (2018) Multiple systems for generalization of learning and memory in human Pavlovian conditioning. *keynote address, *European Meeting of Human Fear Conditioning, Wales*.

Dunsmoor JE (2018) Episodic memory & Pavlovian conditioning: Ships passing in the night. *Boston College, MA*.

Dunsmoor JE (2017) The role of the ventromedial PFC in learning and recall of enhanced fear extinction. *American College of Neuropsychopharmacology, Palm Springs, CA*.

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Dunsmoor JE (2017) How emotion shapes memory. *Neuroscience of Enduring Change: Applications to Psychotherapy, Tucson, AZ.*

Dunsmoor JE (2017) Pavlovian conditioning and episodic memory: Ships passing in the night. *Upsala University, Sweden.*

Dunsmoor JE (2017) How emotion shapes memory. *Psychiatry Grand Rounds, Dell Medical School, University of Texas at Austin, TX*

Dunsmoor JE (2016) Rethinking extinction and developing novel treatments for fear. *Association for Behavioral and Cognitive Therapies, New York, NY.*

Dunsmoor JE (2016) Generalization and control of fear. *Dell Medical School Department of Psychiatry at the University of Texas at Austin.*

Dunsmoor JE (2016) The effects of threat intensity and acute stress on fear generalization in humans. *Society of Biological Psychiatry, Atlanta, GA.*

Dunsmoor JE (2015) The effect of generalized fear learning on episodic memory. *American College of Neuropsychopharmacology, Hollywood, FL.*

Dunsmoor JE (2015) The effect of acute stress on fear generalization. *Society for Neuroscience, Chicago, IL. *session Chair*

Dunsmoor JE (2015) Emotional learning enhances memory consolidation for conceptually related prior events. *International Convention of Psychological Science, Amsterdam, The Netherlands.*

Dunsmoor JE (2015) Generalization and control of emotional learning. *KU Leuven, Leuven, Belgium.*

Dunsmoor JE (2014) Perceptual and conceptual routes to fear generalization in humans. *GK Spring School, University of Wurzburg, Wurzburg, Germany.*

Dunsmoor JE, Ceceli AO, & Phelps EA (2013) Differential effects of extinction, counterconditioning, and avoidance on the return of fear in humans. *Society for Neuroscience, San Diego, CA.*

POSTERS AND OTHER PRESENTATIONS (since 2010)

Hennings AC, McClay M, Lewis-Peacock JA, & **Dunsmoor JE** (2019) Reinstatement of mental context facilitates retrieval of extinction memories. *Cognitive Neuroscience Society, San Francisco, CA.*

Hennings AC, Lewis-Peacock JA, & **Dunsmoor JE** (2018) Mental context tagging reveals deficits of extinction learning in PTSD. *Society for Neuroscience, San Diego, CA.*

Goodman J, & **Dunsmoor JE** (2018) Threat-induced anxiety selectively impairs hippocampus-mediated spatial memory, but enhances the use of striatum-based navigation in a virtual radial arm maze. *Society for Neuroscience, San Diego, CA.*

Clewett DV, Yi D, Bachman S, **Dunsmoor JE**, Phelps EA, & Davachi L (2018) Brain mechanisms by which emotional learning selectively and retroactively enhances memory for related information. *Society for Neuroscience, San Diego, CA.*

Kroes MC, Lin Q, & **Dunsmoor JE**, & Phelps EA (2018) Identifying neural signatures of reconsolidation in humans. *Society for Neuroscience, San Diego, CA.*

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Keller N & **Dunsmoor JE** (2018) Rewarded extinction diminishes enhancement of episodic fear memory. *Cognitive Neuroscience Society, Boston, MA.*

Hennings AC, Lewis-Peacock JA, & **Dunsmoor JE** (2018) Mental context reinstatement may underlie successful retrieval of extinction memories. *Cognitive Neuroscience Society, Boston, MA.*

Dunsmoor JE, Kroes MCW, Braren S, and Phelps EA (2016) Threat anticipation during encoding impairs visual object pattern separation. *International Conference on Memory, Budapest, Hungary.*

Dunsmoor JE (2015) Neural activity to a racial outgroup during reversal of conditioned fear. *Organization for Human Brain Mapping, Honolulu, Hawaii.*

Dunsmoor JE, Murty VP, Davachi L, & Phelps EA (2014) Emotional learning selectively enhances declarative memory for past events. *Society for Neuroscience, Washington DC.*

Dunsmoor JE, Åhs F, Zielinski D & LaBar KS (2012) Conditioned fear acquired in close personal space is resistant to extinction. *Society for Neuroscience, New Orleans, LA.*

Dunsmoor JE, Martin A & LaBar KS (2012) Reinforcement learning enhances mnemonic representations of neutral stimuli. *Cognitive Neuroscience Society, Chicago, IL.*

Dunsmoor J, Martin A & LaBar KS (2011) Aversive learning modulates cortical representations of object concepts. *Society for Neuroscience, Washington DC.*

Cain, MS, **Dunsmoor JE**, LaBar KS & Mitroff SR. (2011). Accuracy in dual-target visual search is hindered by anticipatory anxiety. *Journal of Vision, 11.*

Dunsmoor JE & LaBar KS (2010) Fear generalization induces negative prediction error signals. *Society for Neuroscience, San Diego, CA.*

Dunsmoor J, Martin A & LaBar KS (2010) Categorical representations in human fear learning. *Annual meeting of the Pavlovian Society, Baltimore, MD.*

Dunsmoor J, Bullock A & LaBar K (2010). Does the semantic relatedness of conditional cues facilitate the transfer of learned fear? *Cognitive Neuroscience Society, Montreal, Canada.*

LaBar K, **Dunsmoor J**, Kragel P, Murty V & Prince S (2010). Neural mechanisms of fear generalization. *Cognitive Neuroscience Society, Montreal, Canada.*

ACADEMIC ADVISING AND MENTORING EXPERIENCES

Postdoctoral Fellows Directly Supervised

Emily Leiker	2019-
Samuel Cooper	2019-
Jarid Goodman	2017-2018

PhD Students Directly Supervised

Nicole Keller (Neuroscience program)	2018-
Augustin Hennings (Neuroscience program)	2017-

Rotation Advisor for Neuroscience PhD candidates

Dylan Kirsch	2017
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Member of Graduate Committee

Hyojeong Kim (Primary mentor: Jarrod Lewis-Peacock)	2020 Defense
Nicholas Griffin (Primary mentor: David Schnyer)	2019 Defense
Michael Lee (Primary mentor: Michael Telch)	2019 Defense

Mentor and Supervisor for Undergraduate and Visiting Graduate Students

Neel Bhobe (UT-Austin Psych undergrad)	2019-
Alejandro G Rey Hipolito (UT-Austin Psych undergrad)	2019-
Alex Reidel (UT-Austin Psych undergrad)	2018-
Sophia Toprac (UT-Austin Plan 2 undergrad)	2017-
Jeffrey Chen (UT Neuroscience undergrad)	2018-
Swecha Ramireddy (UT Psych undergrad)	2018-
Caroline Moscatelli (NYU Psychology undergrad)	2016-2017
Stephen Braren (Hunter Psychology undergrad)	2015-2017
Mathew Hakimi (NYU Psychology undergrad)	2015-2016
Cesar Coelho (visiting PhD student from Brazil)	2014-2015
Ameed Basher Abualteen (NYU Psychology undergrad)	2014
Ahmet Ceceli (NYU Masters student)	2012-2014
Brenda Li (NYU Psychology undergrad)	2013
Allison White (Duke Psychology Undergrad)	2009-2011
Carmen Lai (Duke Psychology Undergrad)	2010

GUEST LECTURES (since 2017)

June & July 2020 Dell Medical School Health Science Summer Camp, Neuroscience course.
April 2019 Principles of Cognitive Neuroscience (grad level), Neuroscience of emotions.
January 2019 Research faculty meet & greet with psychiatry residents at Dell Medical School
April 2018 Fundamentals of Neuroscience (grad level), Associative learning and memory.
March 2017 Principles of Cognitive Neuroscience (grad level), Neuroscience of emotions.

AD HOC REVIEWER

Behavior Therapy; Behaviour Research and Therapy; Biological Psychology; Biological Psychiatry; Cognitive, Affective, and Behavioral Neuroscience; Cognition & Emotion; Clinical Psychological Science; Frontiers Neuroscience; Human Brain Mapping; Learning & Motivation; Journal of Neuroscience; Journal of Neuroscience Research; Neuropsychopharmacology; Neurobiology of Learning & Memory; Nature Neuroscience; Neuron; NeuroImage; Neuropsychopharmacology; Pain; PLoS (One); Proceedings of the National Academy of Sciences (PNAS); Psychonomic Bulletin & Review; Psychiatry Research; Scientific Reports; Social, Cognitive, and Affective Neuroscience (SCAN).

ONGOING RESEARCH SUPPORT

5 R00 MH 106719-05 (Dunswoor)	8/1/2017 – 5/31/2020	4.00 calendar
NIMH	\$768,481.73	

Title: Improving the control of fear: Healthy adults to pathological anxiety

The major goals of this project are to investigate novel behavioral strategies to optimize fear extinction in humans with pathological anxiety and stress-related disorders.

NSF CAREER 1844792 (Dunswoor)	1/09/2019 – 12/31/2023	2.00 calendar
National Science Foundation	\$1,540,891	

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Title: CAREER: Implications of a neurobiological model of memory for education: how novelty exposure transforms poor learning into durable memories

The major goals of this project are to investigate how experiences of novelty can rescue weakly formed hippocampal memories in humans

NARSAD Young Investigator Award (Dunsmoor) 1/15/2019 – 1/14/2021 0.00 calendar
Brain & Behavior Research Foundation \$67,630

Title: Retrieval of enhanced fear extinction in PTSD six months later: the neural correlates of long-term extinction memory

The major goals of this project are to extend research on the R00 by conducting a follow-up fMRI scan on subjects who underwent fear extinction protocol in order to assess long-term retrieval of extinction.

COMPLETED RESEARCH SUPPORT

National Institute of Mental Health 04/15/2015- 3/31/2017

K99R00 Transition to Independence Award

K99 MH106719 Role: PI

Title: Improving the Control of Fear: Healthy Adults to Pathological Anxiety

National Institute of Mental Health 11/16/2010- 08/2012

Predoctoral NRSA Training Award

F31 MH090682 Role: PI

Title: Brain Mechanisms Supporting the Generalization of Learned Fear