

*August 2019*

**JOSEPH E. DUNSMOOR, Ph.D.**

University of Texas at Austin

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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, Pomerence 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, Alemnany-Navarro M, Vervliet B, Albajes-Eizaguirre 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.

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*.

## Joseph E. Dunsmoor, Curriculum Vitae

**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. *Uppsala 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.*

## Joseph E. Dunsmoor, Curriculum Vitae

- 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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## Joseph E. Dunsmoor, Curriculum Vitae

### *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 Bhole (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 (Dunsmoor)	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 (Dunsmoor)	1/09/2019 – 12/31/2023	2.00 calendar
National Science Foundation	\$1,540,891	



**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