

## Curriculum Vita

### Elizabeth Anya Phelps

#### CONTACT INFORMATION

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#### PERSONAL INFORMATION

Place of Birth: Washington D.C.

#### EDUCATION

June 1986 - June 1989 Ph.D. in Psychology, Princeton University.  
Specialization: Cognition and Cognitive Neuroscience

Sept. 1984 - June 1986 M.A. in Psychology, Princeton University.

Sept. 1980 - June 1984 B.A. (Summa Cum Laude),  
Ohio Wesleyan University.  
Major: Psychology; Minor: Philosophy

#### POSITIONS HELD

September 2008 – present Julius Silver Professor, New York University

March 2010 – present Research Scientist, Nathan Kline Institute

July 2004 – present Full Professor, New York University

July 1999 – June 2004 Associate Professor, New York University

July 1998 – June 1999 Associate Professor, Yale University

July 1992 - June 1998 Assistant Professor, Yale University

January 1991 - June 1992 Research Scientist, Center for Neural Science, New York University

Dec. 1989 - Dec. 1990 Research Associate, New School for Social Research, Department of Psychology

April 1989 - Dec. 1990 Research Associate, Dartmouth Medical School, Program in Cognitive Neuroscience

## RESEARCH SUPPORT, HONORS and AWARDS

Distinguished Scholar Award, Social and Affective Neuroscience Society, 2014  
Fellow, American Academy of Arts and Sciences  
Member, Dana Alliance for Brain Initiatives  
Margaret and Herman Sokol Faculty Award in the Sciences, 2009  
Macarthur Network on Law and Neuroscience  
Fellow, American Association for the Advancement of Science  
Fellow, Association for Psychological Science  
Fellow, Society for Experimental Psychology  
Co-PI McDonnell Foundation Collaborative Activity Award (2016-2019)  
PI, McDonnell Foundation Network on Affect, Learning and Decision Making (2007-2011)  
PI, McDonnell Foundation Study Panel on Affect, Learning and Decision Making (2002-07)  
PI, McDonnell-Pew Program in Cognitive Neuroscience Research Grant (1997-2000)  
McDonnell-Pew Program in Cognitive Neuroscience Training Grant (1991-1993)  
PI, National Institute of Drug Abuse, RO1, (2017-2022)  
PI, National Institute of Mental Health, RO1 (2012-2017)  
PI, National Institute of Aging, RO1 (2010-2016)  
PI, National Institute of Mental Health, RO1 (2008-2013)  
PI, National Institute of Mental Health, RO1 (2001-2011)  
PI, National Institute of Mental Health, R21 (2004-2007)  
PI, National Institute of Mental Health, R21 (2007-2009)  
PI, National Institute of Mental Health FIRST Award (1994-1999)  
Co-PI, National Institute of Mental Health, Center Grant for Fear and Anxiety (2001-2011)  
Co-PI, National Institute of Mental Health, RO1 (2002-2005)  
Wiersma Visiting Professor, California Institute of Technology, Feb. 2005  
James McKeen Cattell Fund Fellowship, (2004-2005)  
Distinguished Teacher Award, Department of Psychology, New York University (2004)  
21<sup>st</sup> Century Scientist Award, James S. McDonnell Foundation (2001-2004)  
National Science Foundation Fellowship (1985-1988)  
Summer Fellowship in Neuropsychology, Burke Rehabilitation Center (1984,1985)  
Merit Fellowship, Princeton University (1984-1985)  
First Year Student Prize, Princeton University (1984-1985)  
NCAA Post-Graduate Fellowship (1984-1985)  
Outstanding Scholastic Achievement in Psychology, Ohio Wesleyan Univ. (1984)

## ACADEMIC SOCIETIES

American Academy of Arts and Sciences  
American Association for the Advancement of Science  
American Psychological Association  
Association for Psychological Science  
Cognitive Neuroscience Society  
Dana Alliance  
Memory Disorders Research Society  
Phi Beta Kappa  
Psi Chi  
Sigma Xi  
Social and Affective Neuroscience Society  
Society for Experimental Psychology  
Society for Neuroeconomics  
Society for Neuroethics  
Society for Neuroscience

## ARTICLES, CHAPTERS, BOOKS

(names in italics are students or post-doctoral fellows)

- Lenow, J.K.*, Constantino, S.M., Daw, N.D., & **Phelps, E.A.** (2017). Chronic and acute stress promote overexploitation in serial decision making. *The Journal of Neuroscience*, *37*, 5681-9.
- Boeke, E.A.*, Moscarello, J.M., LeDoux, J.E., **Phelps, E.A.**, & Hartley, C.A. (2017). Active avoidance: Neural mechanisms and attenuation of Pavlovian conditioned responding. *The Journal of Neuroscience*, *37*, 4808-18.
- Goldfarb, E.V.*, Shields, G.S., Daw, N.D., Slavich, G.M., & **Phelps, E.A.** (2017). Low lifetime stress exposure is associated with reduced stimulus-response memory. *Learning and Memory*, *24*, 162-8.
- Dunsmoor, J.E.*, Kroes, M.C.W., Braren, S.H., & **Phelps, E.A.** (2017). Threat intensity widens fear generalization gradients. *Behavioral Neuroscience*, *131*, 168-75.
- Tambini, A.*, Rimmele, U., **Phelps, E.A.**, & Davachi, L. (2017). Emotional brain states carry over and enhance future memory formation. *Nature Neuroscience*, *20*, 271-8.
- Sokol-Hessner, P.*, Raio, C.M., Gottesman, S.P., Lackovic, S.F., & **Phelps, E.A.** (2016). Acute stress does not affect risky monetary decision-making. *Neurobiology of Stress*, *5*, 19-25.
- Patil, A.*, Murty, V.P., *Dunsmoor, J.E.*, **Phelps, E.A.**, & Davachi, L. (2016). Reward retroactively enhances memory consolidation for related items. *Learning and Memory*, *24*, 65-9.
- FeldmanHall, O.*, Glimcher, P., *Baker, A.L.*, & **Phelps, E.A.** (2016). Emotion and decision-making under uncertainty: Physiological arousal predicts increased gambling during ambiguity but not risk. *Journal of Experimental Psychology: General*, *145*, 1255-62.
- Goldfarb, E.V.*, *Froböse, M.I.*, Cools, R., & **Phelps, E.A.** (2016). Stress and cognitive flexibility: Cortisol increases are associated with enhanced updating but impaired switching. *Journal of Cognitive Neuroscience*, *29*, 14-24.
- Hermans, E.J.*, *Kanen, J.W.*, *Tambini, A.*, Fernandez, G., Davachi, L., & **Phelps, E.A.** (2016). Persistence of amygdala-hippocampal connectivity and multi-voxel correlation structures during awake rest after fear learning predicts long-term expression of fear. *Cerebral Cortex*, *27*, 30289-41.
- Kroes, M.C.W.*, Schiller, D., LeDoux, J.E., & **Phelps, E.A.** (2016). Translational approaches targeting reconsolidation. *Current Topics in Behavioral Neuroscience*, *28*, 197-230.
- Atlas, L.Y.*, *Doll, B.B.*, *Li, J.*, Daw, N.D., & **Phelps, E.A.** (2016). Instructed knowledge shapes feedback-driven aversive learning in striatum and orbitofrontal cortex, but not the amygdala. *eLife*, *5*, e15192.
- Dunsmoor, J.E.*, *Kubota, J.T.*, *Li, J.*, *Coehlo, C.A.*, & **Phelps, E.A.** (2016). Racial stereotypes impair flexibility of emotional learning. *Social Cognitive and Affective Neuroscience*, *11*, 1363-73.
- Murty, V.P., *FeldmanHall, O.*, *Hunter, L.E.*, **Phelps, E.A.**, & Davachi, L. (2016). Episodic memories predict adaptive value-based decision-making. *Journal of Experimental Psychology: General*, *145*, 548-58.
- Hirst, W. & **Phelps, E.A.** (2016). Flashbulb memories. *Current Directions in Psychological Science*, *25*, 36-41.

- Rimmele, U., Lackovic, S.F., Tobe, R.H., Leventhal, B.L., & **Phelps, E.A.** (2016). Beta-adrenergic blockade at memory encoding, but not retrieval, decreases the subjective sense of recollection. *Journal of Cognitive Neuroscience*, 28, 895-907.
- Gillan, C.M., Kosinski, M., Whelan, R., **Phelps, E.A.**, & Daw, N.D. (2016). Characterizing a psychiatric symptom dimension related to deficits in goal-oriented control. *eLife*, 5, e11305.
- Lempert, K.M., Johnson, E., & **Phelps, E.A.** (2016). Emotional arousal predicts intertemporal choice. *Emotion*, 16, 647-56.
- Lempert, K.M. & **Phelps, E.A.** (2016). The malleability of intertemporal choice. *Trends in Cognitive Sciences*, 20, 64-74.
- Goldfarb, E.V., Chun, M.M., & **Phelps, E.A.** (2016). Memory-guided attention: Independent contributions of the hippocampus and striatum. *Neuron*, 89, 317-324.
- Coelho, C.A., Dunsmoor, J.E., & **Phelps, E.A.** (2015). Compound stimulus extinction reduces spontaneous recovery in humans. *Learning and Memory*, 22, 583-93.
- FeldmanHall, O., Raio, C.M., Kubota, J.T., Seiler, M.G., & **Phelps, E.A.** (2015). The effects of social context and acute stress on decision making under uncertainty. *Psychological Science*, 26, 1918-26.
- Dunsmoor, J.E., Niv, Y., Daw, N.D., & **Phelps, E.A.** (2015). Rethinking extinction. *Neuron*, 88, 47-63.
- Sokol-Hessner, P., Lackovic, S.F., Tobe, R.H., Camerer, C.F., Leventhal, B.L., & **Phelps, E.A.** (2015). Determinants of propranolol's selective effect on loss aversion. *Psychological Science*, 26, 1123-30.
- Gillan, C.M., Otto, A.R., **Phelps, E.A.**, & Daw, N.D. (2015). Model-based learning protects against forming habits. *Cognitive, Affective, Behavioral Neuroscience*, 15, 523-36.
- Raio C.M. & **Phelps E.A.** (2015). Observational Fear Learning. In: Arthur W. Toga, editor. *Brain Mapping: An Encyclopedic Reference*. Academic Press: Elsevier. pp. 137-141.
- Hirst, W., **Phelps, E.A.**, Meksin, R., Vaidya, C.J., Johnson, M.K., Mitchell, K.J., Buckner, R.L., Budson, A.E., Gabrieli, J.D., Lustig, C., Mather, M., Ochsner, K.N., Schacter, D., Simons, J.S., Lyle, K.B., Cuc, A.F. & Olsson, A. (2015). A ten-year follow-up of a study of memory for the attack of September 11, 2001: Flashbulb memories and memories for flashbulb events. *Journal of Experimental Psychology: General*, 144, 604-23.
- Dunsmoor, J.E., Murty, V.P., Davachi, L., & **Phelps, E.A.** (2015). Emotional learning selectively and retroactively strengthens memories for related events. *Nature*, 520, 345-8.
- Lempert, K.M., Glimcher, P.W., & **Phelps, E.A.** (2015). Emotional arousal and discount rate in intertemporal choice are reference dependent. *Journal of Experimental Psychology: General*, 144, 366-73.
- Raio, C.M. & **Phelps, E.A.** (2015). The influence of acute stress on the regulation of conditioned fear. *Neurobiology of Stress*, 1, 134-156.
- Kubota, J.T., Li, J., Bar-David, E., Banaji, M.R., & **Phelps, E.A.** (2015). All claims in the original article hold as stated: A response to Arkes (2015). *Psychological Science*, 26, 246-8.
- Dunsmoor, J.E., Campese, V.D., Ceceli, A.O., LeDoux, J.E., & **Phelps, E.A.** (2014). Novelty-facilitated extinction: Providing a novel outcome in place of an expected threat diminishes recovery of defensive

responses. *Biological Psychiatry*, 78, 203-9.

Hartley, C.A., Moscarello, J.M., Quirk, G.J., & **Phelps, E.A.** (2014). The cognitive neuroscience of fear and its control: From animal models to human experience. In M.S. Gazzaniga & G.R. Mangun (eds), *The Cognitive Neurosciences*, 5<sup>th</sup> edition. Cambridge: MIT Press (697-708).

FeldmanHall, O., Sokol-Hessner, P., Van Bavel, J., & **Phelps, E.A.** (2014). Fairness violations elicit greater punishment on behalf of another than for oneself. *Nature Communications*, 5, Article number: 5306.

Kubota, J.T., Mojdehbakhsh, R., Raio, C., Brosch, T., Uleman, J.S., & **Phelps, E.A.** (2014). Stressing the person: Legal and everyday person attributions under stress. *Biological Psychology*, 103, 117-24.

Steinfurth, E.C., Kanen, J.W., Raio, C.M., Clem, R.L., Haganir, R.L., & **Phelps, E.A.** (2014). Young and old Pavlovian fear memories can be modified with extinction training during reconsolidation in humans. *Learning and Memory*, 21, 338-41.

Sokol-Hessner, P., Hartley, C.A., Hamilton, J.R., & **Phelps, E.A.** (2014). Interoceptive ability predicts aversion to losses. *Cognition and Emotion*, 11, 1-7.

**Phelps, E.A.**, Lempert, K.M., & Sokol-Hessner, P. (2014). Emotion and decision making: multiple modulatory neural circuits. *Annual Review of Neuroscience*, 37, 263-87.

Farah, M.J., Hutchinson, J.B., **Phelps, E.A.**, & Wagner, A.D. (2014). Functional MRI-based lie detection: scientific and societal challenges. *Nature Reviews Neuroscience*, 15, 123-31.

Apergis-Schoute, A.M., Schiller, D., LeDoux, J.E., & **Phelps, E.A.** (2014). Extinction resistant changes in the human auditory association cortex following threat learning. *Neurobiology of Learning and Memory*, 113, 109-114.

Raio, C.M., Brignoni-Perez, E., Goldman, R., & **Phelps, E.A.** (2014). Acute stress impairs the retrieval of extinction memory in humans. *Neurobiology of Learning and Memory*, 112, 212-21.

Hartley, C.A., Gorun, A., Reddan, M.C., Ramirez, F., & **Phelps, E.A.** (2014). Stressor controllability modulates fear extinction in humans. *Neurobiology of Learning and Memory*, 113, 149-56.

Otto, A.R., Raio, C.M., Chiang, A., **Phelps, E.A.**, & Daw, N.D. (2013). Working-memory capacity protects model-based learning from stress. *Proceedings of the National Academy of Sciences*, 110, 20941-6.

Schiller, D., Kanen, J.W., LeDoux, J.E., Monfils, M.H., & **Phelps, E.A.** (2013). Extinction during reconsolidation of threat memory diminishes prefrontal cortex involvement. *Proceedings of the National Academy of Sciences*, 110, 20040-5.

Lempert, K.M. & **Phelps, E.A.** (2013). Neuroeconomics of emotion and decision making. In P.W. Glimcher & E. Fehr (eds). *Neuroeconomics: Decision Making and the Brain*, 2<sup>nd</sup> edition. Waltham, MA: Academic Press (219-236).

**Phelps, E.A.** & Schiller, D. (2013). Reconsolidation in humans. In C.M. Alberini (ed.), *Memory Reconsolidation*. Waltham, MA: Academic Press (185-212).

Hartley, C.A. & **Phelps, E.A.** (2013). Fear models in animal and humans. In R.A. Vasa & A.K. Roy (eds.), *Pediatric Anxiety Disorders: A Clinical Guide*. New York: Springer (3-22).

- Kubota, J.T., Li, J., Bar-David, E., Banaji, M.R., & **Phelps, E.A.** (2013). The price of racial bias: intergroup negotiations in the ultimatum game. *Psychological Science*, 24, 2498-504.
- Raio, C.M., O'Rederu, T.A., Palazzolo, L., Shurick, A.A., & **Phelps, E.A.** (2013). Cognitive emotion regulation fails the stress test. *Proceedings of the National Academy of Sciences*, 110, 15139-44.
- Brosch, T., Schiller, D., Mojdehbakhsh, R., Uleman, J., & **Phelps, E.A.** (2013). Neural mechanisms underlying the integration of situational information into attribution outcomes. *Social Cognitive and Affective Neuroscience*, 8, 640-6.
- Brosch, T., Bar-David, E., & **Phelps, E.A.** (2013). Implicit race bias decreases the similarity of neural representations of black and white faces. *Psychological Science*, 24, 160-6.
- Ferneyhough, E., Kim, M.K., **Phelps, E.A.**, & Carrasco, M. (2013). Anxiety modulates the effects of emotion and attention on early vision. *Cognition and Emotion*, 27, 166-76.
- Schiller, D., Raio, C.M., & **Phelps, E.A.** (2012). Extinction training during the reconsolidation window prevents recovery of fear. *Journal of Visualized Experiments*, 66, e3893.
- Shurick, A.A., Hamilton, J.R., Harris, L.T., Roy, A.K., Gross, J.J., & **Phelps, E.A.** (2012). Durable effects of cognitive restructuring on conditioned fear. *Emotion*, 12, 1393-7.
- Kubota, J.T., Banaji, M.R., & **Phelps, E.A.** (2012). The neuroscience of race. *Nature Neuroscience*, 15, 940-8.
- Raio, C.M., Carmel, D., Carrasco, M., & **Phelps, E.A.** (2012). Nonconscious fear is quickly acquired but swiftly forgotten. *Current Biology*, 22, R477-9.
- Rimmele, U., Davachi, L., & **Phelps, E.A.** (2012). Memory for time and place contributes to enhanced confidence in memories for emotional events. *Emotion*, 12, 834-46.
- Phelps, E.A.** (2012). Emotion and memory. In L. Nadel & W. Sinnott-Armstrong (eds), *Memory and Law*. New York: Oxford University Press (7-28).
- Hartley, C.A., McKenna, M.C., Salman, R., Holmes, A., Casey, B.J., **Phelps, E.A.**, & Glatt, C.E. (2012). Serotonin transporter polyadenylation polymorphism modulates the retention of fear extinction memory. *Proceedings of the National Academy of Sciences*, 109, 5493-8.
- Hartley, C.A., & **Phelps, E.A.** (2012). Anxiety and decision-making. *Biological Psychiatry*, 72, 113-8.
- Sokol-Hessner, P., Camerer, C.F., & **Phelps, E.A.** (2012). Emotion regulation reduces loss aversion and decreases amygdala responses to losses. *Social Cognitive and Affective Neuroscience*, 8, 341-50.
- Stanley, D.A., Sokol-Hessner, P., Fareri, D.S., Perino, M.T., Delgado, M.R., Banaji, M.R., & **Phelps, E.A.** (2012). Race and reputation: perceived racial group trustworthiness influences the neural correlates of trust decisions. *Philosophical Transactions of the Royal Society of London Biological Sciences*, 367, 744-53.
- Phelps E.A.**, & Sokol-Hessner P. (2012). Social and emotional factors in decision-making: appraisal and value. In R.J. Dolan, & T. Sharot (eds), *Neuroscience of Preference and Choice: Cognitive and Neural Mechanisms*. London: Academic Press (207-226).

- Levens, S.M., Devinsky, O., & **Phelps, E.A.** (2011). Role of the left amygdala and right orbital frontal cortex in emotional interference resolution facilitation in working memory. *Neuropsychologia*, *49*, 3201-12.
- Li, J., Schiller, D., Schoenbaum, G., **Phelps, E.A.** & Daw, N.D. (2011). Differential roles of human striatum and amygdala in associative learning. *Nature Neuroscience*, *14*, 1250-2.
- Stanley, D.A., Sokol-Hessner, P., Banaji, M.R., & **Phelps, E.A.** (2011). Implicit race attitudes predict trustworthiness judgments and economic trust decisions. *Proceedings of the National Academy of Sciences*, *108*, 7710-15.
- Rimmele, U., Davachi, L., Petrov, R., Dougal, S., & **Phelps, E.A.** (2011). Emotion enhances the subjective feeling of remembering despite lower accuracy for contextual details. *Emotion*, *11*, 553-62.
- Schiller, D. & **Phelps, E.A.** (2011). Does reconsolidation occur in humans? *Frontiers in Behavioral Neuroscience*, *5*, 24.
- Delgado, M.R., Jou, R. & **Phelps, E.A.** (2011). Neural systems underlying aversive conditioning in humans with primary and secondary reinforcers. *Frontiers in Decision Neuroscience*, *5*, 71.
- Delgado, M.R., **Phelps E.A.** & Robbins, T.W. (2011). *Decision Making, Affect, and Learning: Attention and Performance XXIII*. Oxford England: Oxford University Press.
- Hartley, C.A., Fischl, B. & **Phelps, E.A.** (2011). Brain structure correlate of individual differences in the acquisition and inhibition of conditioned fear. *Cerebral Cortex*, *21*, 1954-62.
- Li, J., Delgado, M.R. & **Phelps, E.A.** (2011). How instructed knowledge modulates the neural systems of reward learning. *Proceedings of the National Academy of Science*, *108*, 55-60.
- Schiller, D., Monfils, M.H., Raio, C.M., Johnson, D.C., LeDoux, J.E. & **Phelps, E.A.** (2010). Preventing the return of fear in humans using reconsolidation update mechanisms. *Nature*, *463*, 49-53.
- Hartley, C.A. & **Phelps, E.A.** (2010). Changing Fear: The neurocircuitry of emotion regulation. *Neuropsychopharmacology*, *35*, 136-46.
- Reuter-Lorenz, P.A., Baynes, K., Mangun, G.R. & **Phelps, E.A.** (2010). *The Cognitive Neuroscience of Mind: A Tribute to Michael S. Gazzaniga*. Cambridge Mass: MIT Press.
- Miller, E.K. & **Phelps, E.A.** (2010). Current Opinion in Neurobiology—Cognitive Neuroscience 2010. *Current Opinion in Neurobiology*, *20*, 141-2.
- Ferneyhough, E., Stanley, D.A., **Phelps, E.A.**, & Carrasco, M. (2010). Cueing effects of faces are dependent on handedness and visual field. *Psychonomic Bulletin & Review*, *17*, 529-35.
- Levens, S.M. & **Phelps, E.A.** (2010). Insula and orbital frontal cortex activity underlying emotion interference resolution in working memory. *Journal of Cognitive Neuroscience*, *22*, 2790-803.
- Whalen, P.J. & **Phelps, E.A.** (2009). *The Human Amygdala*. New York: Guilford Press.
- Delgado, M.R., Jou, R.L., Ledoux, J.E. & **Phelps, E.A.** (2009). Avoiding negative outcomes: Tracking the mechanisms of avoidance learning in humans during fear conditioning. *Frontiers in Behavioral Neuroscience*, *3*, 1-9.

- Sokol-Hessner, P., Hsu, M., Curley, N.G., Delgado, M.R., Camerer, C.F. & **Phelps, E.A.** (2009). Thinking like a trader selectively reduces individuals' loss aversion. *Proceedings of the National Academy of Sciences*, 106, 5035-40.
- Bizzi, E., Hyman, S.E., Raichle, M.E., Kanwisher, N., **Phelps, E.A.**, Morse, S.J., Sinnot-Armstrong, W., Rakoff, J.S. & Greely, H.T. (2009). *Using Imaging to Detect Deceit*. Cambridge, MA: American Academy of Arts and Sciences.
- Hirst, W., **Phelps, E.A.**, Buckner, R.L., Budson, A.E., Cuc, A., Gabrieli, J.D., Johnson, M.K., Lustig, C., Lyle, K.B., Mather, M., Meksin, R., Mitchell, K.J., Ochsner, K.N., Schacter, D.L., Simons, J.S., & Vaidya, C.J. (2009). Long-term memory for the terrorist attack of September 11: Flashbulb memories, event memories, and the factors that influence their retention. *Journal of Experimental Psychology: General*, 138, 161-76.
- Schiller, D., Freeman, J.B., Mitchell, J.P., Uleman, J.S. & **Phelps, E.A.** (2009). A neural mechanism of first impressions. *Nature Neuroscience*, 12, 508-14.
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- Phelps, E.A.** (2009). Emotion's influence on attention and memory. In L. Squire, T. Albright, F. Bloom, F. Gage, N. Spitzer (eds). *New Encyclopedia of Neuroscience*. Oxford: Elsevier (941-6).
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- Sharot, T.S., Davidson, M.L., Carson, M.M., & **Phelps, E.A.** (2008). Eye movements predict recollective experience. *PLoS ONE*, 3, e2884.
- Phelps, E.A.** & Sharot, T.S. (2008). How (and why) emotion enhances the subjective sense of recollection. *Current Directions in Psychological Science*, 17, 147-52.
- Stanley, D., **Phelps, E.A.**, & Banaji, M.R. (2008). The neural basis of implicit attitudes. *Current Directions in Psychological Science*, 17, 164-70.
- Delgado, M.R., Gillis, M.M., & **Phelps, E.A.** (2008). Regulating the expectation of reward via cognitive strategies. *Nature Neuroscience*, 11, 880-1.



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#### **PAPERS PRESENTED AT MEETINGS - UNPUBLISHED ABSTRACTS**

*Goldfarb, E.V., Tompary, A., Zhou, W., Davachi, L., & Phelps, E.A.* Influence of acute stress throughout the memory cycle on associative memory. 24th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. March, 2017.

*Lenow, J.K., Sokol-Hessner, P., Otto, A.R., Constantino, S.M., Daw, N.D., & Phelps, E.A.* Individual differences in risk sensitivity and model-free learning predict foraging decisions. 14<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Berlin, Germany. August, 2016.

*Lempert, K.M., Speer, M.E., Delgado, M.R., & Phelps, E.A.* Positive autobiographical memory retrieval effects on temporal discounting: neural mechanisms. 14<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Berlin, Germany. August, 2016.

*Moreno, G.L., Sokol-Hessner, P., & Phelps, E.A.* Changes in sensitivity to risk across the lifespan. 14<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Berlin, Germany. August, 2016.

*Goldfarb, E.V., Frobose, M.I., Cools, R., & Phelps, E.A.* Individual differences determine effects of acute stress on cognitive flexibility. 23rd Annual Meeting of the Cognitive Neuroscience Society. New York, NY. March, 2016.

*Lempert, K.M., Lackovic, S.F., Tobe, R.H., Glimcher, P.W., & Phelps, E.A.* Propranolol influences reference-dependence in intertemporal choice. 13<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Miami, FL. September, 2015.

- Lenow, J.K., Constantino, S.M., Daw, N.D., & Phelps, E.A.* Chronic and acute stress promote over-exploitation in foraging decisions. 13<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Miami, FL. September, 2015.
- FeldmanHall, O., Glimcher, P., Baker, A., & Phelps, E.A.* Emotion and decision-making under uncertainty: Arousal predicts gambling during ambiguous but not risky contexts. 13<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Miami, FL. September, 2015.
- Atlas, L.Y., Sandman, C., & Phelps, E.A.* Self-generated expectations modulate feedback-driven aversive learning. Organization for human Brain Mapping. Honolulu, HI. May, 2015.
- Sandman, C., Phelps, E.A., & Atlas, L.Y.* How expectations shape aversive learning. NIH 10<sup>th</sup> Annual Symposium on Advances in Pain Research. Bethesda, MD. May, 2015.
- Murty, V.P., FeldmanHall, O., Hunter, L., Phelps, E.A., & Davachi, L.* Episodic memory gates social decision-making. 27<sup>th</sup> Annual Convention for the Association for Psychological Science. New York, NY. May, 2015.
- Raio, C.M. & Phelps, E.A.* The influence of stress exposure on fear regulation. 27<sup>th</sup> Annual Convention for the Association for Psychological Science. New York, NY. May, 2015.
- Lempert, K.M., Speer, M.E., Delgado, M.R., & Phelps, E.A.* Positive autobiographical memory retrieval reduces impulsivity. 27<sup>th</sup> Annual Convention for the Association for Psychological Science. New York, NY. May, 2015.
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- Raio, C.M. & Phelps, E.A.* The influence of stress on extinction retrieval in humans. Society of Biological Psychiatry 70<sup>th</sup> Annual Scientific Convention. Toronto, Canada. May, 2015.
- Gillan, C.M., Kosinski, M., Whelan, R., Phelps, E.A., & Daw, N.D.* Reinforcement learning markers of variation in compulsive and depressive traits. Society of Biological Psychiatry 70<sup>th</sup> Annual Scientific Convention. Toronto, Canada. May, 2015.
- Raio, C.M., FeldmanHall, O., Gaikwad, M., DePaoli, F., Kubota, J., & Phelps, E.A.* Stress exposure decreases cooperative behavior. 8<sup>th</sup> Annual Meeting of the Social and Affective Neuroscience Society. Boston, MA. April, 2015.
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- Lempert, K.M., Johnson, E., & Phelps, E.A.* Emotional arousal to future monetary rewards predicts choice. 12<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Miami, FL. September, 2014.
- FeldmanHall, O., Sokol-Hessner, P., Van Bavel, J., & Phelps, E.A.* Social decision-making: contextual influences and biological underpinnings. 26<sup>th</sup> Annual Convention for the Association for Psychological Science. San Francisco, CA. May, 2014.
- Lempert, K.M., Johnson, E., & Phelps, E.A.* Emotional response to future monetary rewards predicts choice. 26<sup>th</sup> Annual Convention for the Association for Psychological Science. San Francisco, CA. May, 2014.
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- Kubota, J.T., Mojdehbakhsh, R., Dalrymple, J., Blackmon, K., Banaji, M.R., & Phelps, E.A.* Dissociated effects of temporal and prefrontal lesions on implicit bias change. 7<sup>th</sup> Annual Meeting of the Social & Affective Neuroscience Society. New York, NY. April, 2014.
- Kubota, J.T., Brosch, T., Mojdehbakhsh, R., Uleman, J.S., & Phelps, E.A.* Neural mechanisms of intergroup attributions. 15<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology. Austin, TX. February, 2014.
- Kubota, J.T., Li, J., Bar-David, E., Banaji, M.R., & Phelps, E.A.* The price of racial bias: Intergroup negotiations in the ultimatum game. Annual Meeting of the Society for Experimental Social Psychology. Berkeley, CA. September, 2013.
- Lempert, K.M., Glimcher, P.W., & Phelps, E.A.* Reference-dependence in intertemporal choice. 11<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Lausanne, Switzerland. September, 2013.
- Kubota, J.T., Raio, C.M., Mojdehbakhsh, R., Brosch, T., Uleman, J.S., & Phelps, E.A.* Person attributions under stress. 20<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2013.
- Atlas, L.Y., Doll, B.B., Daw, N.D., Li, J. & Phelps, E.A.* Effects of instructed knowledge on aversive learning. 6<sup>th</sup> Annual Meeting of the Social & Affective Neuroscience Society. San Francisco, CA. April, 2013.
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- Kubota, J.T., Banaji, M. R., & Phelps, E. A.* The neuroscience of race. Annual Meeting of the Society for Experimental Social Psychology. Austin, TX. October, 2012.
- Raio, C.M., Brignoni-Perez, E., & Phelps, E.A.* The influence of stress on extinction recall. Annual Meeting of the Pavlovian Society. Jersey City, NJ. September, 2012.
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- Raio, C.M., Orederu, T., Palazzolo, L., & Phelps, E.A.* Acute stress impairs the cognitive regulation of fear. 19<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. Chicago, IL. March, 2012.
- Kubota, J.T., Li, J., Bar-David, E., & Phelps, E.A.* Negotiations in the ultimatum game. 13<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology. San Diego, CA. January, 2012.
- Kanen, J.W., Hermans, E.J., Fernández, G., & Phelps E.A.* Enhanced functional connectivity of the amygdala during awake rest after fear conditioning in humans. Annual Meeting of the Pavlovian Society. Milwaukee, WI. September, 2011.
- Hartley, C.A., Phelps, E.A., Casey, B.J., & Glatt, C.E.* A serotonin transporter polyadenylation polymorphism selectively modulates extinction retention in humans. *Wisconsin Symposium on Emotion*. Madison, WI. April, 2011.
- Raio, C.M., Carmel, D., Carrasco, M., & Phelps, E.A.* Fear conditioning without awareness using continuous flash suppression. 18<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2011.
- Hartley, C.A., Phelps, E.A., Casey, B.J., & Glatt, C.E.* Genetic modulation of extinction retention, anxiety, and depressive symptoms in humans. 18<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2011.
- Kubota, J.T., Bar-David, E., & Phelps, E.A.* Intergroup negotiations in the ultimatum game. 12<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology. San Antonio, TX. January, 2011.
- Carmel, D., Raio, C.M., Phelps, E.A. & Carrasco, M.* Fast unconscious fear conditioning. Annual Meeting of the Vision Sciences Society. Naples, FL. May, 2011.
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- Ferneyhough, E., McClave, C.H., & Phelps, E.A.* The role of intraparietal sulcus in emotional costs to temporal attention. 18<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2011.

- Hartley, C.A., Phelps, E.A., Casey, B.J., & Glatt, C.E.* Serotonin Transporter Genotype Predicts Individual Differences in Extinction Retention. 4<sup>th</sup> Annual Meeting of Social & Affective Neuroscience Society. Chicago, IL. October, 2010.
- Ferneyhough, E., Stanley, D.A., Phelps, E.A., & Carrasco, M.* Negative affect mediates emotion's effect on perception. 4<sup>th</sup> Annual Meeting of Social & Affective Neuroscience Society. Chicago, IL. October, 2010.
- Sokol-Hessner, P., Hamilton, J., Camerer, C.F., & Phelps, E.A.* Shockingly conservative: Threat of sock increases risk aversion. 8<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Evanston, IL. October, 2010.
- Li, J., Schiller, D., Schoenbaum, G., Phelps, E.A., & Daw, N.D.* Differential roles of human striatum and amygdala in associative learning. 8<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Evanston, IL. October, 2010.
- Hartley, C.A., Gorun, A., Reddan, M., & Phelps, E.A.* The influence of stressor controllability on conditioned fear expression in humans. Annual Meeting of the Pavlovian Society. Baltimore, MD. October, 2010.
- Hartley, C.A., Phelps, E.A., Casey, B.J., & Glatt, C.E.* Contributions of the serotonin transporter gene to individual differences in extinction retention. Annual Meeting of the Society for Psychophysiological Research. Portland, OR. September, 2010.
- Ferneyhough, E., Stanley, D.A., Phelps, E.A., & Carrasco, M.* Interaction effects of emotion and attention on contrast sensitivity correlate with measures of anxiety. Annual Meeting of the Vision Sciences Society. Naples, FL. May, 2010.
- Shurick, A.A., Harris, L.T., Hoogendoorn, C.J., Roy, A.K., & Phelps, E.A.* Cognitive behavioral therapy is effective for regulating conditioned fear. 17<sup>th</sup> Annual meeting of the Cognitive Neuroscience Society. Montreal, QC., Canada. April, 2010.
- Harris, L.T., Hornstein, E., Hosey, C., Fehr, E., & Phelps, E.A.* Prior moral character and fairness behavior modulate neural activity, physiological affective responses, and punishment decisions. 17<sup>th</sup> Annual meeting of the Cognitive Neuroscience Society. Montreal, QC., Canada. April, 2010.
- Rimmele, U., Davachi, L., & Phelps, E.A.* The heightened subjective sense of remembering emotional stimuli is coupled to memory for intrinsic, but not extrinsic stimuli features. Wisconsin Symposium on Emotion. Madison, WI. April, 2010.
- Li, J., Delgado, M.R., & Phelps, E.A.* How instructed knowledge modulates the neural systems of reward learning. 7<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Chicago, IL. November, 2009.
- Hoogendoorn, C., Harris, L., Shurick, A., Krain, A., & Phelps, E.A.* Humanizing extreme outgroups: The efficacy of cognitive behavioral therapy for decreasing social disgust. 3<sup>rd</sup> Annual Meeting of Social & Affective Neuroscience Society. New York, NY. October, 2009.
- Stanley, D.A., Shurick, A.A., Dougal, S., & Phelps, E.A.* Emotional content does not modulate activity in scene processing regions of the ventral visual stream. 3<sup>rd</sup> Annual Meeting of Social & Affective Neuroscience Society. New York, NY. October, 2009.

- Hartley, C.A., Salman, R., Richman, A., Casey, B.J., Glatt, C., & Phelps, E.A.* Genetic contributions to extinction retention in humans. 3<sup>rd</sup> Annual Meeting of Social & Affective Neuroscience Society. New York, NY. October, 2009.
- Schiller, D., Cain, C.K., Kuhlman, K., Ledoux, J.E., & Phelps, E.A.* The role of the human amygdala-striatal circuitry in active coping with aversive events. Gordon Research Conference on Amygdala In Health & Disease. Waterville, ME. July, 2009.
- Hartley, C.A., Salman, R., & Phelps, E.A.* Genetic contributions to the retention of fear extinction in humans. Third Annual Tufts University Conference on Emerging Trends in Behavioral, Affective, Social, and Cognitive (BASC) Neurosciences. Medford, MA. June, 2009.
- Schiller, D., Cain, C.K., Kuhlman, K., Ledoux, J.E., & Phelps, E.A.* Active coping – role of amygdala-striatal circuitry in humans. Third Annual Tufts University Conference on Emerging Trends in Behavioral, Affective, Social, and Cognitive (BASC) Neurosciences. Medford, MA. June, 2009.
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- Raio, C.M., Schiller, D., Monfils, M-H., LeDoux, J.E., & Phelps, E.A.* Behaviorally modifying fear memory: extinction learning during reconsolidation blocks recovery of fear in humans. 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. March, 2009.
- Harris, L.T., Schiller, D., Fiske, S., & Phelps, E.A.* Escape from disgust: Emotion motivates mental and physical avoidance of social targets. 6<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Park City, UT. October, 2008.
- Schiller, D., Monfils, M., Raio, C.M., Johnson, D.C., LeDoux, J.E., & Phelps, E.A.* Extinction during reconsolidation prevents the return of fear in humans. Annual Meeting of the Pavlovian Society for Neuroscience. Weehawken, NJ. September, 2008.
- Freeman, J., Schiller, D., Rule, N.O., Phelps, E.A., & Ambady N.* Separable (and race-selective) neural mechanisms for judging individuated and non-individuated others. 2<sup>nd</sup> Annual Meeting of Social & Affective Neuroscience Society. Boston, MA. October, 2008.
- Stanley, D., Sokol-Hessner, P., Perino, M., Banaji, M.R., & Phelps, E.A.* Implicit race bias influences estimations of trustworthiness. 6<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Park City, UT. September, 2008.
- Hartley, C.A., Meltzer, E.P., Salman, R. Szary, J.K. & Phelps, E.A.* The role of agency in modulating conditioned arousal. International Symposium of Attention & Performance XXIII: Decision Making. Stowe, VT. June, 2008.
- Schiller, D., Monfils, M., Johnson, D.C., Raio, C.M., LeDoux, J.E. & Phelps, E.A.* Retrieval Prior to Extinction Prevents the Return of Fear. International Symposium of Attention & Performance XXIII: Decision Making. Stowe, VT. June, 2008.
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- Schiller, D. & Phelps, E.A.* The neural correlates of first impressions. 15<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. May, 2008.
- Hartley, C., Szary, J., Fischl, B., & Phelps, E.A.* Brain structure correlates of individual differences in the acquisition and regulation of conditioned fear. 15<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. May, 2008.
- Curley, N., Sokol-Hessner, P., Hsu, M., Delgado, M., Camerer, C., & Phelps, E.A.* Regulating loss aversion: A physiological correlate of the relative overvaluation of losses. 5<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Boston, MA. September, 2007.
- Hartley, C. & Phelps, E.A.* Brain structure correlates of sensitivity to anticipated aversive outcomes. 5<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Boston, MA. September, 2007.
- Schiller, D., Freeman, J.B., Mitchell, J.P., Uleman, J.S., & Phelps, E.A.* Assigning value to people – role of posterior cingulate cortex and amygdala. 5<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Boston, MA. September, 2007.
- Sokol-Hessner, P., Hsu, M., Curley, N., Delgado, M., Camerer, C., & Phelps, E.A.* Thinking like a trader: distinct neural correlates of loss aversion and its intentional regulation. 5<sup>th</sup> Annual Meeting of the Society for Neuroeconomics. Boston, MA. September, 2007.
- Sokol-Hessner, P., Hsu, M., Curley, N., Delgado, M., Camerer, C., & Phelps, E.A.* Reappraising loss aversion: physiological and neural correlates of the intentional regulation of loss aversion. Neural Systems of Social Behavior conference. Austin, TX. May, 2007.
- Curley, N., Sokol-Hessner, P., Hsu, M., Delgado, M., Camerer, C., & Phelps, E.A.* Reappraising loss aversion: a physiological correlate of the relative overvaluation of losses. 14<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. New York, NY. May, 2007.
- Sokol-Hessner, P., Hsu, M., Curley, N., Delgado, M., Camerer, C., & Phelps, E.A.* Reappraising loss aversion: manipulating choices with emotion regulation strategies. Society for Neuroeconomics. Park City, UT. September, 2006.
- Delgado, M., Carson, M., Jou, R., & Phelps, E.A.* Emotion regulation of appetitive conditioning: Regulating the expectation of reward. 13<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2006.
- Dougal, S., Delgado, M.R., & Phelps, E.A.* Medial temporal lobe correlates of recognizing personally relevant emotional stimuli. 13<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2006.
- Levens, S.M., Saintilus, M., & Phelps, E.A.* Prefrontal cortex mechanisms underlying the interaction between emotion and inhibitory processes in working memory. 13<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2006.
- Phelps, E.A., Olsson, A., & Delgado, M.R.** Social influences on the mechanisms of emotional learning. 13<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2006.
- Schiller, D., LeDoux, J.E. & Phelps, E.A.* Context mediated recovery of extinguished fear in humans. 13<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2006.

- Levens, S. M. & Phelps, E. A.* Emotion influences the PFC circuitry underlying inhibition in working memory. Society for Neuroscience. Washington, D.C. November, 2005.
- Delgado, M.R., LeDoux, J. E. & Phelps, E.A.* (2005). Fear of losing money: classical fear conditioning with a secondary reinforcer. *Neuroeconomics*. Charelston, SC., September, 2005.
- Delgado, M.R., Frank, R.H., Pearson, J.R., Nearing, K.I., & Phelps, E.A.* The neural correlates of biased choice behavior. *NeuroEconomics*. Charleston, SC. September, 2004.
- Dougal, S., Phelps, E.A. & Davachi, L.* Emotional modulation of familiarity and recollective process in recognition: An fMRI study. 45th Annual Meeting of the Psychonomic Society. Minneapolis, MN. November, 2004.
- Olsson, A. & Phelps, E.A.* The role of the human amygdala in observational fear learning. 16<sup>th</sup> Annual Meeting of the American Psychological Society. Chicago, IL. May, 2004.
- Ling, S., Phelps, E.A., Holmes, B. & Carrasco, M.* Emotion potentiates attentional effects in early vision. Annual Meeting of the Vision Sciences Society. Sarasota, FL. May, 2004.
- Nearing, K.I., Delgado, M.R., Stendenfeld, K., Sedgewick, B.M., LeDoux, J.E. & Phelps, E.A.* Extinction of conditioned fear: Role of the medial prefrontal cortex and amygdala. 11<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2004.
- Delgado, M.R., Trujillo, J.L., Holmes, B., Nearing, K.L., LeDoux, J.E. & Phelps, E.A.* Emotion regulation of conditioned fear: The contributions of reappraisal. 11<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2004.
- Sharot, T., Warlaumont, A., Stedenfeld, K.A. & Phelps, E.A.* Retrieving emotionally arousing material: The neural processes supporting recollection and familiarity. 11<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2004.
- Phelps, E.A.** Race and the brain. 15<sup>th</sup> Annual Meeting of the American Psychological Society. Atlanta, GA. May, 2003.
- Phelps, E.A. & Anderson, A.K.** Affective salience in perception and memory: Psychological and neural mechanisms. 10<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. New York, NY. March, 2003.
- Olsson, A. Stendenfeld, K. & Phelps, E.A.* Pavlovian, observational and instructed learning: Emotional responses to unmasked and masked stimuli. 10<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. New York, NY. March, 2003.
- Sharot, T., & Phelps, E.A.* Enhanced retention of emotional stimuli in the visual field periphery. 9<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA. April, 2002.
- Funayama, E.S., & Phelps, E.A.* Affective modulation of startle eyeblink following unilateral temporal lobectomy. 6<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. Washington, D.C. April, 1999.
- O'Connor, K.J., Labar, K.S., & Phelps, E.A.* Impaired contextual fear conditioning in amnesics. 6<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. Washington, D.C. April, 1999.
- Anderson, A.K., & Phelps, E.A.* Measurement of positive and negative affective states in patients with amygdala damage. 6<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. Washington, D.C. April, 1999.

- Anderson, A.K., & Phelps, E.A.* Bilateral amygdala damage impairs evaluation but not vocal expressions of fear. 5<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience. San Francisco, CA. March, 1998.
- LaBar, K.S., Gatenby, J.C., Gore, J.C., & Phelps, E.A.* Role of the amygdala in emotional picture evaluation as revealed by fMRI. 5<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience. San Francisco, CA. March, 1998.
- LaBar K.S., & Phelps, E.A.* Role of medial temporal lobe in memory consolidation for arousing words. 4<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience. Boston, MA. March, 1997.
- Funayama, E.S., Grillon, C., & Phelps, E.A.* A comparison of skin conductance and protentiated startle as measures of fear conditioning in humans. 9<sup>th</sup> Annual Meeting of the American Psychological Society. Washington, D.C. May, 1996.
- LaBar, K.S., McCarthy, G., Ziv, O., & Phelps, E.A.* Central and peripheral electrophysiological correlates of arousing words. 3<sup>rd</sup> Annual Meeting of the Society for Cognitive Neuroscience. San Francisco, CA. March, 1996.
- Phelps, E.A., & Krause, K.K.** Inflexibility of skill learning in amnesics. Annual meeting of the Psychonomic Society. Los Angeles, CA. October, 1995.
- Phelps, E.A., & LaBar, K.S.** Recall for neutral words in emotional sentence contexts following unilateral temporal lobectomy. 2<sup>nd</sup> Annual Meeting of the Society for Cognitive Neuroscience. San Francisco, CA. March, 1995.
- LaBar, K.S., LeDoux, J.E., & Phelps, E.A.* Fear conditioning following unilateral temporal lobectomy in humans: Impaired simple discrimination. Biannual Conference on Learning and Memory. Cold Spring Harbor, NY. October, 1994.
- LaBar, K.S., Phelps, E.A., McCarthy, G., & LeDoux, J.E.* Event-related potential indices of fear conditioning in humans. 1<sup>st</sup> Annual Meeting of the Society for Cognitive Neuroscience. San Francisco, CA. March, 1994.
- Multhap, K.S., Johnson, M.K., Hirst, W., Phelps, E.A., & Volpe, B.T.* Source monitoring in amnesics. 63<sup>rd</sup> Annual Meeting of the Eastern Psychological Association. Boston, MA. April, 1992.
- Phelps, E.A.,** Memory performance following callosotomy. 2<sup>nd</sup> Dartmouth International Conference on Epilepsy and the Corpus Callosum. Hanover, NH. August, 1991.
- Phelps, E.A., Hirst W., & Johnson, M.K.** Amnesics' use of prior knowledge. 58<sup>th</sup> Annual Meeting of the Eastern Psychological Association. Arlington, VA. April, 1987.
- Phelps, E.A., Hirst, W., & Johnson, M.K.** Recall and recognition with amnesia. 57<sup>th</sup> Annual Meeting of the Eastern Psychological Association. New York, NY. April, 1986.

## OTHER PROFESSIONAL ACTIVITIES

### PROFESSIONAL ORGANIZATIONS AND MEETINGS

#### *Elected Positions*

President, Society for Affective and Social Neuroscience, 2015-2016

President, Association for Psychological Science, 2013-2014  
American Association for the Advancement of Science, Electorate Nominating Committee,  
Section on Psychology, 2014-2017  
President, Society for Neuroeconomics, 2006-2007  
American Psychological Society Board of Directors, Elected Member-at-Large, 2004-2007  
Society for Neuroeconomics, Board of Directors, 2004-2006, 2015-2017  
President, NYU Women's Faculty Caucus, 2007-2010

#### *Invited Positions*

Co-Director, Emotional Brain Institute, New York University, 2012-present  
Assoc. Director, NYU Institute for the Interdisciplinary Study of Decision Making, 2015-present  
University Athletics Association Delegates Committee, 2017-present  
NCAA Faculty Athletics Representative for NYU, 2017-present  
Chair, Society for Neuroeconomics Young Investigator Award Committee, 2016  
Institute of Medicine, Committee on the Assessment and Treatment of PTSD, 2012-2014  
National Academy of Sciences, Committee on Eyewitness Identification, 2013-2014  
Director, Section on Emotion and Social Behavior, Summer Inst. in Cognitive Neuro., 2013  
APA Young Investigator Award in Behavioral Neuroscience Selection Committee, 2010  
APS Janet T. Spence Young Investigator Award Selection Committee, 2010  
Macarthur Network on Law and Neuroscience, 2007-2010  
Organizer, Attention and Performance, 2008  
Society for Neuroethics, Founding Board Member  
Chair, McDonnell Foundation Study Panel on Affect, Learning & Decision Making  
Memory Disorders Research Society, Board of Organizers, 2004-5  
Director, Section on Higher Cognition, Summer Inst. in Cognitive Neuroscience, 2008  
Co-Director, Section on Emotion, Summer Institute in Cognitive Neuroscience, 2003  
Co-Director of the Summer Institute in Cognitive Neuroscience, 2002

#### *Conferences*

Program Committee, Society for Neuroeconomics, 2017  
Program Committee, Association for Psychological Science, 2014  
Organizing Committee, Reinforcement Learning and Decision Making, 2013  
Program Committee, Society for Neuroscience, 2006-2009  
Program Committee, Cognitive Neuroscience Society Meeting, 1996, 2005-2010  
Organized Attention and Performance XXIII, Stowe, Vermont, 2008  
Organizing Committee and Session Chair, Society for Neuroethics Annual Meeting, 2008  
Organizing Committee, Society for Neuroeconomics Annual Meeting, 2007  
Organizing committee for Human Brain Mapping, NYC, 2003  
Local Organizer, Memory Disorders Research Society Annual Meeting, NYC, 2004  
Chair, Session on Decision Making, McDonnell 21<sup>st</sup> Century Scientists Meeting, 2004  
Chair, Session on Declarative Memory, Society for Neuroscience, 2004  
Chair, Session on Emotion at the Human Brain Mapping Meeting, 2000  
Chair, Session on Declarative and Non-declarative Memory, Society for Neuro. 1998  
Organized Symposium on Emotional Memory for McDonnell Foundation Meeting, 1998  
Chaired Session on Memory and Emotion at Human Brain Mapping, 1998  
Organized Symposium for Memory Disorder Research Society - Human Amygdala, 1996

#### ADVISORY BOARDS AND COMMITTEES

Science of Behavior Change, External Scientific Panel, 2016-2020  
Kavli HUMAN Project, Board of Directors, 2016-present  
Stress Measurement Network, 2016 – 2021  
Cal Tech Humanities and Social Sciences Review Committee, 2016

Northwestern Department of Psychiatry Review Committee, 2016  
Grawemeyer Award in Psychology, Selection Committee, 2015  
Israeli Center of Excellence in the Cognitive Sciences, Scientific Advisory Board  
Nobel Symposium on the Neuroscience of Emotion, 2004  
Affective Sciences Center for the National Science Foundation of Switzerland  
Oxford University Press Series on Social Cognition and Social Neuroscience  
Nordic Research Council, Scientific Advisory Board  
Chair, NYU Center for Brain Imaging Oversight Committee, 2001-2004; 2008-present  
EDITORIAL ACTIVITIES

Editor, *The Human Amygdala*. Guilford Publications

Editor, *Attention and Performance XXIII: Affect, Learning and Decision Making*, Oxford University Press.

Editor, *Emotion* (2006-2011)

Co-Editor for the Section on Emotion, *The Cognitive Neurosciences, 3<sup>rd</sup> Edition*, M. S. Gazzaniga (Editor). MIT Press.

Editor for the Section on Higher Cognition and Decision Making, *The Cognitive Neurosciences, 4<sup>th</sup> Edition*, M. S. Gazzaniga (Editor). MIT Press.

Co-Editor for the Section on Emotion and Social Behavior, *The Cognitive Neurosciences, 5<sup>th</sup> Edition*, M. S. Gazzaniga (Editor). MIT Press.

Associate Editor:

Journal of Cognitive Neuroscience (2002-6)  
Cognitive, Affective and Behavioral Neuroscience (2003-2006)  
Current Directions in Psychological Science (2007)

Consulting Editor:

Neurobiology of Stress  
Neuropsychologia  
Biological Psychiatry  
Trends in Cognitive Sciences

Ad Hoc Reviewer:

American Journal of Psychiatry  
Biological Psychiatry  
Cerebral Cortex  
Cognitive, Affective, Behavioral Neuroscience  
Journal of Experimental Psychology: Learning Memory and Cognition  
Journal of Cognitive Neuroscience  
Journal of Neuroscience  
Journal of Personality and Social Psychology  
Journal of Psychophysiology  
Nature  
Nature Communications  
Nature Neuroscience  
Neurobiology of Learning and Memory  
Neuroimage  
Neuron

Neuropsychology  
Psychological Review  
Psychological Science  
Psychophysiology  
Proceedings of the National Academy of Sciences  
Science  
Social, Cognitive, Affective Neuroscience  
Trends in Cognitive Science

#### FUNDING AGENCIES

Wellcome Trust, Grant Interview Panel (2014-2017)  
Simons Foundation, Grant Review Panel (2011-2012)  
Member of Learning and Memory (LAM) Study Section, NIMH (2005-2010)  
Workshop on Mind and Brain Panel Participant, NSF, 2006  
Ad-Hoc Grant Reviewer for NIMH, NIDA and NINDS

#### INVITED TALKS AND COLLOQUIA (last 5 years)

3<sup>rd</sup> Latin American School for Education, Cognition, Neural Science, Brazil, 2013  
Alpine Brain Imaging Meeting, Champéry Switzerland, Invited Address, 2015  
American Museum of Natural History, “Brain: The Inside Story” series, 2016  
American Psychiatry Association, 2014  
Association for Behavioral and Cognitive Therapies, Keynote Address, 2014  
Association for Behavioral and Cognitive Therapies, Invited Address, 2016  
Association for Psychological Science, Presidential Symposium, 2013  
Baycrest Rotman Research Institute Conference, 2015  
Canadian Psychological Association, 2015  
Carnegie Mellon, Behavior Decision Research Colloquium, 2013  
Cognitive Neuroscience Society, Keynote Address, 2016  
Cognitive Neuroscience Society, Symposium on Neuroeconomics, 2013  
Columbia University, Committee on Global Thought, Memory Symposium, 2013  
Cornell Medical School, 2014, 2017  
Council of Graduate Departments of Psychology, 2014  
Dartmouth Affective Neuroscience Meeting, 2016  
Donders Institute for Brain, Cognition and Behaviour, Donders Lecture, 2014  
Duke Summer Seminars in Neuroscience, 2016  
Duke University, Neuroscience Colloquium, 2013  
Dutch Psychiatric Association, Keynote Address, Maastricht, 2012  
Emory University, Neuroethics Symposium, 2013  
Gordon Research Conference on the Amygdala, 2013, Keynote Address, 2015  
International Brain Research Organization, 2015  
International Congress of Psychology, South Africa, 2012  
Lehigh University, 2014  
Macarthur Conference on Law and Neuroscience, Chicago, 2013  
Mt. Sinai School of Medicine, Grand Rounds, 2016  
NAS Summit on Social and Behavioral Sciences for National Security, 2016  
National Institute of Health, Council of Councils Meeting - Common Fund, 2014  
National Institute of Mental Health, Annual Brain Camp, 2013  
NYU Frontiers in Memory Research, Florence Italy, 2016  
NYU Conference on Memory, 2013

NYU Abu Dhabi, Public Lecture, 2014  
NYU Shanghai, 2013  
NYU, Psychiatry, Ground Rounds, 2014  
NYU-Weizmann Meeting on Neuroscience, Rehovot, 2012  
Ohio State University, Keynote address for opening of the Brain Imaging Center, 2012  
Peking University, 2014  
Princeton University Psychology Graduate Alumni Symposium, Keynote Address, 2013  
Psi Chi Distinguished Speaker, Association for Psychological Science, 2015  
Rutgers University RUBIC Opening, Keynote Address, 2012  
Rutgers University, Affective and Behavioral Regulatory Processes, Keynote Address, 2017  
Santa Fe Institute, January, 2012  
Shanghai Neuroeconomics Summer School, 2015  
Social and Affective Neuroscience Society, 2012, 2014  
Society for Affective Science, Keynote Address, 2017  
Society of Biological Psychiatry, Keynote Address, 2012  
Society for Neuroeconomics, 2011  
Society for Neuroscience, 2016  
Stanford University, Neuroscience Retreat, Keynote Address, 2014  
St. Louis University School of Law, 2016  
Stress, PTSD and Psychiatric Disorders, Invited Address, Weizmann Institute, Israel, 2015  
Stress Regulation, Social Buffering and Fear Learning, NSF, 2015  
Summer School in Social Neuroscience, Keynote Address, Stresa Italy, 2013  
Summer Institute in Cognitive Neuroscience, 2013  
Turkish National Congress of Psychology, Keynote Address, Istanbul, 2012  
Queens Hospital Center, Grand Rounds, 2017  
UCLA Integrative Center for Learning and Memory, Inaugural Symposium, 2012  
University of California Los Angeles, Memory Meeting, 2012  
University of California, Santa Barbara, 2016  
University of California, San Diego, 2014  
University of Colorado, Denver, Neuroscience Colloquium, 2013  
University of Louisville, 2015  
University of Maryland, 2016  
University of Pennsylvania, Keynote Address, Graduate Retreat, 2015  
University of San Francisco, Psychiatry Grand Rounds, 2015  
University of Washington, Loucks Lecture, 2014  
Waterloo Brain Day, 2014  
Yale University Festschrift for Marcia Johnson, 2015  
Yale University, Cognition Seminar, 2013

## **TEACHING**

I have taught several graduate and undergraduate courses. My largest and most frequent class at New York University is Introduction to Psychology. I have also taught undergraduate courses in Affective Neuroscience, Statistics for Psychology Majors, Research Methods in Cognitive Neuroscience, and a Senior Seminar in Cognitive Neuroscience, as well as graduate courses in Cognitive Neuroscience, Human Memory, and Affective Neuroscience. In the past, I have taught or assisted in teaching: Human Neuropsychology, Research Methods in Psychology, Cognition, the Psychology of Thinking, Semantics and Philosophy and Feminism.