

**CURRICULUM VITAE**  
**Avram Jonathan Holmes**

Office: Yale University  
Department of Psychology  
402 Sheffield Sterling Strathcona Hall  
1 Prospect Street  
New Haven, Connecticut 06511  
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**EMPLOYMENT:**

2014- Assistant Professor  
Department of Psychology  
Yale University  
2012- Assistant in Research  
Department of Psychiatry  
Massachusetts General Hospital  
2012-2014 Instructor in Psychiatry  
Harvard Medical School

**EDUCATION and TRAINING:**

2009-2012 Post-doctoral fellow  
Center for Brain Science  
Harvard University  
2008-2009 Clinical Psychology Internship  
Warren Alpert Medical School  
Brown University  
2003-2009 Ph.D. (Clinical Psychology)  
Harvard University  
Dissertation: Action monitoring in depression: ERP and fMRI correlates  
1994-1998 B.S. (Psychology)  
Pennsylvania State University

**GRANTS:**

2014-2016 NARSAD Young Investigator Grant  
Brain & Behavior Research Foundation  
Title: Identifying network-level fingerprints of affective illness and associated  
polygenic vulnerability in the general population  
Role: PI

- 2013-2017 R01MH101486, Dimensional Approaches to Research Classification in Psychiatric Disorders  
National Institute of Mental Health/NIH  
Title: Neural and Genetic Basis of Negative Valance Traits  
Role: Co-Investigator (PI: Jordan Smoller)
- 2013-2018 K01MH099232-02, Mentored Research Scientist Development Award  
National Institute of Mental Health/NIH  
Title: Dimensional neurogenetic markers of limbic system integrity & psychiatric illness  
Role: PI
- 2012-2013 Robert Wood Johnson Health and Society Scholars Grant  
Title: Anxiety, low mood, and individual variation in brain structure in young adults  
Role: PI
- 2007-2008 F31MH078346-02, Ruth L. Kirschstein NRSA, Predoctoral Fellowship  
National Institute of Mental Health/NIH  
Title: Action monitoring in depression: ERP and fMRI correlates  
Role: PI
- 2006-2007 Sackler Scholar in Psychobiology: Distinction for Interdisciplinary Research  
Title: The effects of task-relevant feedback on task performance in major depressive disorder  
Role: PI
- 2005-2006 Sackler Scholar in Psychobiology: Distinction for Interdisciplinary Research  
Title: The electrophysiological correlates of action monitoring in major depressive disorder  
Role: PI

#### **HONORS AND AWARDS:**

- 2011 MGH Department of Psychiatry Clinical Research Award  
2007 Society for Psychophysiological Research Student Travel Award  
2006, 2007 Biddle Restricted Fund Research Grant, Harvard University  
2005-2007 HealthEmotions Research Institute Fellow, University of Wisconsin-Madison  
2006 Sigma Xi Grants-in-Aid of Research Recipient  
2005 Summer Institute: Biology of Developmental Disabilities Merck Fund Travel Award  
2004-2006 Harvard University Graduate Student Fellowship  
2004, 2005 Ditmars Restricted Fund Research Grant, Harvard University  
2004, 2005 McMasters Fund Research Grant, Harvard University  
2004 Allport Fund Research Grant, Harvard University  
2004 Stimson Fund Research Grant, Harvard University

#### **PUBLICATIONS (PEER REVIEWED):**

1. Zuo XN, Anderson J, Bellec P, Birn RM, Biswal BB, Blautzik J, et al. (In Press). An open science resource for establishing reliability and reproducibility in functional connectomics. *Scientific Data*.

2. Treadway MT, Waskom ML, Dillon DG, Holmes AJ, Park MTM, Chakravarty MM, Dutra SJ, Polli FE, Iosifescu DV, Fava M, Gabrieli JDE, Pizzagalli DA. (In Press). Illness progression, recent stress, and morphometry of hippocampal subfields and medial prefrontal cortex in major depression. *Biological Psychiatry*.
3. Admon R, Nickerson LD, Dillon DG, Holmes AJ, Bogdan R, Kumar P, et al. (In Press). Dissociable cortico-striatal connectivity abnormalities in major depression in response to monetary gains and penalties. *Psychological Medicine*.
4. Smoller JW, Gallagher PJ, Duncan LE, McGrath L, Haddad S, Holmes AJ, et al. (In Press). The human ortholog of acid-sensing ion channel gene ASIC1a is associated with panic disorder and amygdala structure and function. *Biological Psychiatry*.
5. Thomson PM, Stein JL, Medland SE, Hibar DP, Vasquez AA, Renteria M, et al. (2014) The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. *Brain Imaging and Behavior*, 8 (2), 153-182.
6. Pearson-Fuhrhop KM, Dunn EC, Mortero S, Devan W, Falcone GJ, Holmes AJ, et al. (2014). Dopamine gene score predicts depressive symptoms in healthy adults and adults with depression. *PLOS ONE*, 9, 5, e93772.
7. Baker JT, Holmes AJ, Masters G, Yeo BT, Krienen F, Buckner RL, Öngür D. (2014) Disruption of cortical association networks in schizophrenia and psychotic bipolar disorder. *JAMA Psychiatry*, 71, 2, 109-118.
8. Holmes AJ, Lee PH, Hollinshead M, Bakst L, Roffman JL, Smoller JW, Buckner RL. (2012). Individual differences in amygdala-medial prefrontal anatomy link negative affect, impaired social functioning, and polygenic depression risk. *Journal of Neuroscience*, 32, 50, 18087-18100.
9. Bis JC, DeCarli C, Smith AV, van der Lijn F, Crivello F, Fornage M, et al. (2012). Common variants at 12q14 and 12q24 are associated with hippocampal volume. *Nature Genetics*, 44, 5, 545-551.
10. Stein JL, Medland SE, Vasquez AA, Hibar DP, Senstad RE, Winkler AM, et al. (2012). Identification of common variants associated with human hippocampal and intracranial volumes. *Nature Genetics*, 44, 5, 552-561.
11. Santesso DL, Bogdan R, Birk JL, Goetz EL, Holmes AJ, Pizzagalli DA. (2012). Neural responses to negative feedback are related to negative emotionality in healthy adults. *Social Cognitive and Affective Neuroscience*, 7, 7, 794-803.
12. Holmes AJ, Pizzagalli D. (2010). Effects of task-relevant incentives on the electrophysiological correlates of error processing in major depressive disorder. *Cognitive Affective and Behavioral Neuroscience*, 10, 1, 119-128.
13. Holmes AJ, Bogdan R, Pizzagalli D. (2010). Serotonin transporter genotype and action monitoring dysfunction: A possible substrate underlying increased vulnerability to depression. *Neuropsychopharmacology*, 35, 1186-1197.
14. Janes AC, Pizzagalli DA, Richard S, Frederick BB, Holmes AJ, Sousa A, Fava M, Evins AE, Kaufman M. (2010). Neural substrates of attentional bias for smoking-related cues: An fMRI study. *Neuropsychopharmacology*, 35, 12, 2339-2345.
15. Janes AC, Pizzagalli DA, Richard S, Frederick BB, Chuzi S, Pachas G, Culhane MA, Holmes AJ, Fava M, Evins AE, Kaufman M. (2010). Brain reactivity to smoking cues prior to smoking cessation predicts ability to maintain tobacco abstinence. *Biological Psychiatry*, 67, 722-729.
16. Petersen, T, Pava J, Buchin J, Matthews J, Nierenberg A, Holmes AJ, Bogdan R, Graves L, Harley R, Fava M. (2010). The role of cognitive-behavioral therapy and fluoxetine in prevention of recurrence of major depressive disorder. *Cognitive Therapy and Research*, 34, 1, 13-23.
17. Dillon DG, Bogdan R, Fagerness J, Holmes AJ, Perlis RH, Pizzagalli DA. (2010). Variation in TREK1 gene linked to depression-resistant phenotype is associated with potentiated neural responses to rewards in humans. *Human Brain Mapping*, 31, 210-221.

18. Dillon DG, Holmes AJ, Birk JL, Brooks N, Lyons-Ruth K, Pizzagalli DA. (2009). Childhood maltreatment is associated with left basal ganglia dysfunction during reward anticipation in adults. *Biological Psychiatry*, 66, 206-213.
19. Pizzagalli DA, Holmes AJ, Dillon DG, Goetz EL, Birk JL, Bogdan R, Dougherty DD, Iosifescu DV, Rauch SL, Fava M. (2009). Reduced caudate and nucleus accumbens response to rewards in unmedicated subjects with major depressive disorder. *American Journal of Psychiatry*, 166, 702-710.
20. Holmes AJ, Pizzagalli DA. (2008). Response conflict and frontocingulate dysfunction in unmedicated participants with major depression. *Neuropsychologia*, 46, 2904-2913.
21. Chiu P, Holmes AJ, Pizzagalli DA. (2008) Neural dynamics of affective response inhibition: Dissociable recruitment of rostral anterior cingulate and inferior frontal cortex. *NeuroImage*, 42, 988-997.
22. Holmes AJ, Pizzagalli DA. (2008). Spatiotemporal dynamics of action monitoring dysfunctions in major depressive disorder. *Archives of General Psychiatry*, 65, 2, 198-188.
23. Meites TM, Deveney CM, Steele KT, Holmes AJ, Pizzagalli DA. (2008). Implicit depression and hopelessness in remitted depressed individuals. *Behaviour Research and Therapy*, 46, 1078-1084.
24. Dillon DG, Holmes AJ, Jahn AL, Bogdan R, Wald L, Pizzagalli DA. (2008). Dissociation of neural regions associated with anticipatory versus consummatory phases of incentive processing. *Psychophysiology*, 45, 36-49.
25. Santesso DL, Dillon DG, Birk JL, Holmes AJ, Goetz E, Bogdan R, Pizzagalli DA. (2008). Individual differences in reinforcement learning: Behavioral, electrophysiological, and neuroimaging correlates. *NeuroImage*, 42, 807-816.
26. Santesso DL, Steele KT, Bogdan R, Holmes AJ, Deveney CM, Meites TM, Pizzagalli DA (2008) Enhanced negative feedback responses in remitted depression. *NeuroReport*, 19, 1045-1048.
27. Holmes AJ, Pizzagalli DA. (2007) Task feedback effects on conflict monitoring and executive control: Relationship to subclinical measures of mood. *Emotion*, 7, 1, 68-76.
28. Peterson T, Feldman G, Harley R, Fresco D, Graves L, Holmes A, Bogdan R, Papakostas G, Bohn L, Lury A, Fava M, Segal Z. (2007) Extreme response style in recurrent and chronically depressed patients: Change with antidepressant administration and stability during continuation treatment. *Journal of Consulting and Clinical Psychology*, 75, 1, 145-153.
29. Holmes AJ, MacDonald AW, Carter C S, Barch D M, Stenger AV, Cohen JD. (2005). Prefrontal functioning during context processing in schizophrenia and major depression: An event-related fMRI study. *Schizophrenia Research*, 76, 199-206.
30. MacDonald AW, Carter CS, Kerns JG, Ursu S, Barch DB, Holmes AJ, Stenger AV, Cohen JD. (2005). Specificity of prefrontal dysfunction and context processing deficits to schizophrenia in never medicated first-episode patients with first episode psychosis. *American Journal of Psychiatry*, 62, 475-484.

#### **PUBLICATIONS (BOOK CHAPTERS):**

1. Oscar-Berman M, Urban TA, Holmes AJ. (2014). Effects of Alcoholism on Neurological Function and Disease in Adulthood. In: KJ. Sher (Ed.), *The Oxford Handbook of Substance Use Disorders*, Volume 2. Medicine-US.
2. Pizzagalli DA, Dillon DG, Bogdan R, Holmes A. (2011). Reward and punishment processing in the human brain: Clues from affective neuroscience and implications for depression research. In: O. Vartanian and D. Mandel (Eds.), *Neuroscience of Decision Making*. New York: Psychology Press, pp. 199-220.

## PRESENTATIONS:

1. Shafee R, Holmes AJ, Genovese G, Roffman J, Smoller J, Buckner R, McCarroll S. (2014, November). Common SNP heritability of brain structures and intracranial volume using MRI. The Society for Neuroscience Conference, Washington, DC.
2. Ge T, Nichols TE, Holmes AJ, Lee PH, Buckner RL, Roffman J, Sabuncu MR, Smoller JW. (2014, September). Fast heritability analysis using genome-wide data via kernel machines. MICCAI Workshop on Imaging Genetics. Cambridge, MA.
3. Beam EH, Coombs G, Boeke E, Corwell S, Hollinshead M, Fava MD, Farabaugh A, Holt DJ, Buckner RL, Holmes AJ. (2014, September). Frontoparietal network connectivity associates with executive functioning deficits in young adults at risk for depression. 4<sup>th</sup> Biennial Conference on Resting State/Brain Connectivity, Boston MA.
4. Garrido L, Holmes A, Nakayama K. (2014, August). Functional connectivity of face and scene selective regions. 37<sup>th</sup> European Conference on Visual Perception, Belgrade, Serbia.
5. Holmes AJ, Hollinshead MO, Roffman JL, Smoller JW, Buckner RL. (2013, November). Individual differences in sensation seeking co-varies with substance use and prefrontal cortical thinning in healthy young adults. The Society for Neuroscience Conference, San Diego, CA.
6. Garrido L, Holmes A, Hollinshead M, Nakayama K. (2013, November). Functional connectivity patterns predict face selectivity. The Society for Neuroscience Conference, San Diego, CA.
7. Gallagher P, Duncan L, McGrath L, Haddad S, Holmes AJ, Wolf A, et al. (2013, October). The human ortholog of acid-sensing ion channel gene ASIC1a is associated with panic disorder and amygdala structure and function. The 21st World Congress of Psychiatric Genetics, Boston MA.
8. Admon R, Nickerson L, Dillon DG, Holmes AJ, Bogdan R, Kumar P, Fava M, Pizzagalli DA. (2013, September). Reduced fronto-striatal functional connectivity during reward processing in major depression. 27th Annual Meeting of the Society for Research in Psychopathology, Oakland, CA.
9. Holmes AJ, Lee PH, Hollinshead MO, Roffman JL, Buckner RL, Smoller JW. (2013, May). Amygdala-medial prefrontal circuit anatomy predicts negative affect, social functioning, and polygenic depression risk in healthy young adults. 68th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA.
10. Roffman JL, Silverstein NJ, Holmes AJ, Lee PH, Hollinshead MO, Smoller JW, Buckner RL. (May 2013). Genetic variation across the folate metabolic pathway influences cortical thickness in healthy individuals. 68th Annual Meeting of the Society for Biological Psychiatry, San Francisco, CA.
11. Garrido L, Holmes A, Hollinshead M, Buckner R, Nakayama K. (2013, May). The face network estimated by intrinsic functional connectivity employing a large sample (N = 296). Vision Sciences Society 13th Annual Meeting, Naples FL.
12. Baker J, Holmes AJ, Buckner RL, Öngür D. (2012, December). Network-level disruptions in intrinsic functional connectivity across psychotic disorders. American College of Neuropsychopharmacology 51st Annual Meeting, Hollywood, FL.
13. Roffman JL, Silverstein NJ, Holmes AJ, Lee PH, Hollinshead MO, Smoller JW, Buckner RL. (2012, December). Polygenic Variation Across the Folate Metabolic Pathway Influences Frontal Cortical Thickness: Implications for Schizophrenia. American College of Neuropsychopharmacology 51st Annual Meeting, Hollywood, FL.
14. Holmes AJ, Lee PH, Hollinshead MO, Roffman JL, Buckner RL, Smoller JW. (2012, October). Polygenic depression risk in young adults predicts decreased medial prefrontal thickness. The Society for Neuroscience Conference, New Orleans, LA.
15. Baker J, Holmes AJ, Buckner RL, Öngür D. (2012, October). Disruption of the frontoparietal control network in schizophrenia and bipolar disorder: A common pathway for psychosis. The

- Society for Neuroscience Conference, New Orleans, LA.
16. Hollinshead MO, Holmes AJ, Crowell S, Zad M, Buckner RL. (2012, October). Probing social function using movies of dynamic social interactions. The Society for Neuroscience Conference, New Orleans, LA.
  17. O'Keefe TM, Petrov VI, Buckner RL, Holmes AJ, Fariello GR. (2012, September). The informatics backbone of the brain genomics superstruct project open data release. The annual International Neuroinformatics Coordinating Facility Congress, Munich, Germany.
  18. Holmes AJ, Hollinshead M, Yeo BT, Roffman JL, Smoller JW, Buckner RL. (2011, November). Increased amygdala volume and decreased cingulate thickness reliably predict negative affect in the general population. The Society for Neuroscience Conference, Washington, DC.
  19. Buckner RL, Hollinshead M, Holmes AJ, Brohawn DG, Fagerness JA, O'Keefe T, Petrov V, Fariello G, Bakst L, Rubenstein S, Benner T, Sorensen G, Rosen BR, Smoller JW, Roffman JL. (2011, November). The Brain Genomics SuperStruct Project. The Society for Neuroscience Conference, Washington, DC.
  20. Holmes AJ, Hollinshead M, Yeo BT, Roffman JL, Smoller JW, Buckner RL. (2011, September). Evidence for a limbic anxio-affective syndrome in the general population. The Society for Research in Psychopathology Conference, Boston, MA.
  21. Lee PH, Holmes AJ, Fagerness J, Roffman J, Purcell SM, Buckner RL, Smoller JW. (2011, September). Genome-wide analyses of neuro-cognitive/brain-imaging phenotypes reveal enriched association of neuronal and psychiatric candidate genes. XIX World Congress on Psychiatric Genetics, Washington, DC.
  22. The Enhancing Neuroimaging Genetics through Meta-Analysis Consortium. (2011, June). Genome-wide association meta-analysis of hippocampal volume via the ENIGMA consortium. The 17<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping. Québec City, Canada.
  23. Bogdan R, Holmes AJ, Dillon DG, Pizzagalli DA. (2010, October). Reward learning and reward-related neural activation. Annual Meeting of the Social and Affective Neuroscience Society, Chicago, IL.
  24. Pizzagalli DA, Holmes AJ, Dillon DG, Bogdan R, Dutra SJ, Perlis RH, Fava M. (2010, May). Major depression and variation in TREK1 gene are associated with blunted striatal responses to rewards. 65<sup>th</sup> Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA.
  25. Holmes AJ, Bogdan R, Pizzagalli DA. (2009, October). Associations between serotonin transporter genotype and action monitoring: A possible endophenotype explaining increased vulnerability to depression. The Society for Neuroscience Conference. Chicago, IL.
  26. Holmes AJ, Pizzagalli DA. (2009, September). Electrophysiological correlates of error commission in major depressive disorder: Dissociable effects of task-relevant incentives. Oral presentation at the 6<sup>th</sup> Joint EEG and Clinical Neuroscience Society – International Society for Neuroimaging in Psychiatry Conference. Atlanta, GA.
  27. Dillon D, Bogdan R, Fagerness J, Holmes A, Perlis R, Pizzagalli D (2009, March). Variations in TREK1 genotype linked to antidepressant response are associated with potentiated neural response to rewards in humans. The 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
  28. Pizzagalli DA, Holmes AJ. (2008, November). Executive dysfunction and abnormal error processing in major depression: Focus on frontocingulate pathways. The 42<sup>nd</sup> Annual Association for Behavioral and Cognitive Therapies Convention. Orlando, FL.
  29. Holmes AJ, Pizzagalli DA. (2008). Resting anterior cingulate gamma activity and adaptive stroop performance: Further evidence of frontocingulate dysregulation in major depression. *Psychophysiology*, 45, S27 [Poster at the Society for Psychophysiological Research 48<sup>th</sup> Annual Meeting, October, 2008, Austin, TX.]
  30. Chiu P, Holmes AJ, Pizzagalli DA. (2008). Dissociable recruitment of rostral anterior cingulate and inferior frontal cortex in emotional response inhibition. *Psychophysiology*, 45, S115 [Poster at Society for Psychophysiological Research 48<sup>th</sup> Annual Meeting, October, 2008,

- Austin, TX.]
31. Pizzagalli DA, Holmes AJ, Dillon DG, Goetz EL, Birk JL, Ryan Bogdan R. (2008, September). Reduced caudate and nucleus accumbens response to monetary rewards in major depressive disorder. The Society for Research in Psychopathology 22<sup>nd</sup> Annual Meeting Pittsburgh, PA.
  32. Steele K, Bogdan R, Holmes A, Meites T, Deveney C, Pizzagalli D. (2008, September). Resting left frontal alpha activity predicts an increased tendency to associate the self with happiness in remitted depressed subjects: A source localization EEG study. The Society for Research in Psychopathology 22<sup>nd</sup> Annual Meeting Pittsburgh, PA.
  33. Pizzagalli DA, Dillon DG, Evins AE, Holmes AJ, Birk J, Goetz E, Pachas G, Loebel T. (2008). Effects of a single dose of Bupropion on the neural substrates of reward processing in major depression: A double-blind, placebo-controlled fMRI study. *Biological Psychiatry*, 63, 211S [Poster at the 63rd Annual Convention of the Society for Biological Psychiatry, May, 2008, Washington, DC]
  34. Holmes AJ & Pizzagalli D. (2007, November). The ERP correlates of action monitoring deficits in major depression. The 41st Annual Association for Behavioral and Cognitive Therapies Convention. Philadelphia, PA.
  35. Holmes AJ & Pizzagalli D. (2007, November). The electrophysiological correlates of action monitoring in major depressive disorder: Spatial localization and functional connectivity. The Society for Neuroscience Conference, San Diego, CA.
  36. Dillon DG, Holmes AJ, Lyons-Ruth K, Pizzagalli DA. (2007, November). Effects of chronic stress on incentive processing in humans. The Society for Neuroscience Conference, San Diego, CA.
  37. Holmes AJ & Pizzagalli D. (2007, October). The spatio-temporal dynamics of conflict-related processing in major depressive disorder. Society for Psychophysiological Research 47<sup>th</sup> Annual Meeting, Savannah, GA.
  38. Meites T, Deveney C, Steele K, Holmes A, Pizzagalli D. (2007, October) Always look on the bright side of life: Implicit depression and hopelessness. Society for Research in Psychopathology 21<sup>st</sup> Annual Meeting Iowa City, IA.
  39. Pizzagalli D & Holmes AJ. (2007, May). Abnormal responses to errors in depression: Behavioral and electrophysiological correlates. Association for Psychological Science 19<sup>th</sup> Annual Convention, Washington, DC.
  40. Holmes AJ & Pizzagalli D. (2006). Action monitoring and feedback effects in major depressive disorder: A 128-channel EEG study. *Psychophysiology*, 43, 1, S47. [Poster at the Society for Psychophysiological Research 46<sup>th</sup> Annual Meeting, October, 2006, Vancouver, British Columbia, Canada.]
  41. Pizzagalli DA, Holmes AJ, Peccoralo LA, Davidson RJ, Cohen JD. (2006). Resting anterior cingulate gamma activity and abnormal responses to errors in depression: A source localization high-density EEG study. *Clinical EEG and Neuroscience* 37, 266-267. [Oral presentation at the Third Joint ECNS (EEG and Clinical Neuroscience Society) & ISNIP (International Society for Neuroimaging in Psychiatry) Conference, September, 2006, Boston, MA].
  42. Holmes AJ & Pizzagalli D. (2006, May). Task-relevant feedback effects on action monitoring within a subclinically depressed sample. American Psychological Society 18<sup>th</sup> Annual Convention, New York, NY.
  43. Petersen T, Fresco D, Graves L, Bogdan R, Holmes A, Fava M, Segal ZV. (2005, November). Extreme response style: Change with antidepressant treatment and long-term stability. Association for Behavioral and Cognitive Therapies Convention, Washington, DC.
  44. Holmes AJ & Pizzagalli D. (2005, *presented online due to Hurricane*). Task feedback effects on conflict monitoring and executive control: Relationship to subclinical measures of depression. The Society for Research in Psychopathology, Miami, FL.
  45. Barch DM, MacDonald AW, Braver TS, Carter CS, Kerns JG, Ursu S, Holmes AJ, Stenger AV,

- Cohen JD. (2003). Cognitive control and prefrontal cortex dysfunction in major depression: The role of psychotic features. *Psychophysiology*, 40, 1, S19-20. [Poster at The Society for Psychophysiological Research 43<sup>th</sup> Annual Meeting, October, 2003, Chicago, IL].
46. Becker TM, Snitz BE, Kerns JG, Barch DM, Yablonsky EJ, Holmes A, Meiwald J, Cohen JD, Carter CS. (2003, November) Context processing deficits and associated hypofrontality predict functional outcome in first episode schizophrenia patients. The Society for Neuroscience Conference, New Orleans, LA.
  47. Holmes AJ, MacDonald AW, Carter CS, Barch DM, Stenger AV, Cohen JD. (2003). The specificity of context processing deficits associated with hypofrontality in schizophrenic patients: An event-related fMRI study. *Schizophrenia Research*, 60, 1, S222. [Poster at the International Congress on Schizophrenia Research, March, 2003, Colorado Springs, CO].
  48. Carter CS, MacDonald AW, Holmes A, Stenger VA. (2003). Prospective longitudinal fMRI study of prefrontal cortex based context processing in never medicated first-episode schizophrenia. *Schizophrenia Research*, 60, 1, S214. [Poster at the International Congress on Schizophrenia Research, March, 2003, Colorado Springs, CO].
  49. Kerns JG, MacDonald AW, Barch DM, Holmes A, Cohen JD, Carter CS. (2003, March). Context-processing deficits and decreased prefrontal cortex activity: Specific associations with unmedicated, first-episode schizophrenia and with disorganization symptoms. *Schizophrenia Research*, 60, 1, S225. [Poster at the International Congress on Schizophrenia Research, March, 2003, Colorado Springs, CO].
  50. Holmes AJ, MacDonald AW, Carter CS, Barch DM, Stenger AV, Cohen JD. (2002, June). fMRI study of the mechanisms of context processing in medicated and unmedicated schizophrenia. The second annual Western Psychiatric Institute and Clinic Research Day, Pittsburgh, PA.
  51. MacDonald AW, Johnson MJ, Holmes AJ, Kriley CD, Fleming E, Stenger AV, Cohen JD, Carter CS. (2002, June). Specific impairment in cognitive control associated with DLPFC dysfunction and genetic liability in unmedicated schizophrenia patients and unaffected relatives: An event-related fMRI study. The second annual Western Psychiatric Institute and Clinic Research Day, Pittsburgh, PA.
  52. Carter CS, MacDonald AM, Holmes A, Kriley C, Cohen JD. (2002). Parsing hypofrontality: Contributions of dorsolateral prefrontal and anterior cingulate dysfunction to impaired executive functions on never medicated first episode psychosis. *Biological Psychiatry*, 51, 8, 162S-162S. [Poster at the Annual Convention of the Society for Biological Psychiatry, April, 2002, Philadelphia, PA].
  53. Carter CS, Barch DM, MacDonald AW, Ursu S, Holmes AJ, Cohen JD. (2000, April). Prefrontal related impairments in cognitive control are not specific to schizophrenia. International Congress on Schizophrenia Research, Whistler, British Columbia, Canada.

#### **COLLOQUIUM AND INVITED LECTURES:**

- |      |   |
|------|---|
| 2014 | Here we go again -- replication in psychological science. Chair, Graduate Student Activities Committee sponsored faculty panel, Psychology Department, Yale University. New Haven CT.                           |
| 2014 | Frontoparietal anatomy predicts sensation seeking, impulsivity, and substance use in healthy young adults. Cognition, Brain, & Behavior Research Seminar, Psychology Department, Harvard University. Boston MA. |
| 2013 | Reduced prefrontal cortical thickness associates with increased sensation seeking, impulsivity, and alcohol/tobacco/caffeine usage in healthy young adults. Current Works                                       |



in Behavior, Genetics, and Neuroscience, Psychology Department, Yale University. New Haven CT.

- 2012 Unraveling depression: Identifying neurogenetic pathways in complex disorders. Psychiatric Genetics and Translational Research seminar, Massachusetts General Hospital. Boston MA.
- 2011 Evidence for a pervasive limbic anxio-affective syndrome in the general population. Martinos Brain and Cognition Talks series, Martinos Center, Massachusetts General Hospital. Boston MA.
- 2007 Setting clear expectations from the first day in the social sciences. 30<sup>th</sup> Annual Harvard University Fall Teaching Conference, Harvard University.
- 2007 Tips and basics for discussion sections in the humanities and social sciences. Annual Winter Teaching Conference, Harvard University. Cambridge MA.
- 2006 Planning the first day of class in the social sciences. 29<sup>th</sup> Annual Harvard University Fall Teaching Conference, Harvard University. Cambridge MA.

**TEACHING:**

- 2015 Instructor – Psych 719b: History and Systems in Psychology  
Yale University
- 2014-2015 Instructor – Psych 720: Current Work in Clinical Psychology  
Yale University
- 2014 Instructor – Psych 718a: Diversity in Clinical Science and Practice  
Yale University
- 2014 Guest Lecturer – Psych 190: Introduction to Clinical Neuroscience; Neurobiological basis of depression  
Yale University
- 2007 Grader – Psych 1855 Mood Disorders  
Harvard University
- 2006-2007 Lead Departmental Teaching Fellow – Derek Bok Center for Teaching and Learning  
Harvard University
- 2006-2007 Instructor – Psych 3555 Instructional Styles in Psychology  
Harvard University
- 2006 Writing Fellow – Graduate Writing Fellows Program  
Harvard University
- 2006 Guest Lecturer – Psych E 2450 Affective and Social Neuroscience; Mood and cognition  
Harvard University

- 2006 Guest Lecturer – Psych 1855 Mood Disorders; Cognitive changes in major depression  
Harvard University
- 2005 Teaching Fellow – Psych 18 Abnormal Psychology  
Harvard University
- 2004 Guest Lecturer – Psych 970 Sophomore Tutorial; Neuroanatomy  
Harvard University
- 1997 Teaching Assistant – Psych 2 Psychology  
Pennsylvania State University

**MENTORING AND ADVISING:**

- 2006-2007 Research Supervisor – Psych 985 Junior Tutorial: Honors Thesis Preparation  
Harvard University  
  
Katherine Steele: Behavioral analysis of reward and punishment responsiveness in remitted depressed individuals
- 2003-2007 Research Supervisor – Psych 910r: Supervised Research  
Harvard University  
Katherine Steele (2005-2007)  
Akshay Lohitsa (2005-2006)  
April Timberlake (2004-2005)  
Erika Cowman (2003-2004)

**AD HOC REVIEWER:**

- 2014 Biological Psychiatry; Biology of Mood and Anxiety Disorders; Clinical Psychological Science; Cognitive Affective and Behavioral Neuroscience; Harvard Review of Psychiatry; Journal of Neuroscience; NeuroImage; Neuropsychopharmacology; Schizophrenia Research
- 2013 Biological Psychiatry; Clinical Psychological Science; Cognitive Affective and Behavioral Neuroscience; Frontiers in Human Neuroscience; JAMA Psychiatry; Journal of Neuroscience; Psychophysiology
- 2012 Archives of General Psychiatry; Behavioral and Brain Functions; Biological Psychology; Cognitive Affective and Behavioral Neuroscience; NeuroImage; Neuropsychologia; PLoS ONE; Psychiatry Research: Neuroimaging; Psychophysiology
- 2011 Biological Psychiatry; Biological Psychology; Brain Research; Clinical Psychology Review; Neurobiology of Disease; Neuropsychologia; Psychological Medicine; Psychopharmacology
- 2010 Biological Psychology; International Journal of Psychophysiology; Psychiatry and Clinical Neurosciences; Psychiatry Research; Psychophysiology
- 2009 Biological Psychology; Brain Topography; International Journal of Psychophysiology
- 2008 Journal of Abnormal Psychology; Journal of Affective Disorders
- 2007 Human Brain Mapping; Psychophysiology
- 2006 Cognition and Emotion; Journal of Neurophysiology
- 2005 Psychoneuroendocrinology

**RESEARCH GRANT REVIEW:**

2009            Outside reviewer, University of Ghent (Belgium)

**SERVICE AND OTHER EXPERIENCE:**

2005-2006    Harvard University Psychology Graduate Student Organization Co-President

2004-2006    Harvard University Psychology Study Pool Committee Member

**MEMBERSHIPS:**

2011-           Society for Research in Psychopathology

2008-           Society for Neuroscience

2007-           Association for Behavioral and Cognitive Therapies

2006-           Sigma-Xi - Associate Member

2006-           Society for Psychophysiological Research