

JEFFREY M. SPIELBERG

CURRICULUM VITAE
10.21.2015

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EDUCATION

- 2011 **Ph.D., Clinical Psychology**
University of Illinois at Urbana-Champaign
APA-accredited, PCSAS-accredited
- 2008 **M.A., Psychology**
University of Illinois at Urbana-Champaign
- 2002 **B.A., Psychology**
The George Washington University
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EMPLOYMENT

- 2014-present **Assistant Professor of Psychology**
Department of Psychiatry
Boston University School of Medicine
- 2013-present **Principal Investigator, Motivation & Executive Function in Trauma & Anxiety lab**
Associate Director of Neuroimaging Analysis Development, Neuroimaging
Research for Veterans Center
VA Boston Healthcare System
- 2011-2013 **Postdoctoral Scholar**
Institute of Personality & Social Research, Institute of Human Development
University of California, Berkeley
Faculty supervisor: Ronald E. Dahl, M.D.
- 2011 **Statistical/fMRI Methodological Consultant**
Institute of Cognitive Science
University of Colorado, Boulder
- 2005-2011 **Graduate Research Assistant**
Department of Psychology
University of Illinois at Urbana-Champaign
Faculty supervisors: Gregory A. Miller, Ph.D., Wendy Heller, Ph.D.
- 2003-2005 **Research Assistant**
Departments of Psychiatry and Radiology
Massachusetts General Hospital
Research supervisors: Hans Breiter, M.D., Nancy Etcoff, Ph.D.
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PUBLICATIONS

Peer-Reviewed Journal Articles

33. Sadeh, N, **Spielberg, JM**, Logue, MW, Wolf, EJ, Smith, AK, Lusk, J, Hayes, JP, Sperbeck, E, Milberg, WP, McGlinchey, RE, Salat, DH, Carter, WC, Stone, A, Schichman, SA, Humphries, DE, & Miller, MW. (in press). SKA2 methylation is associated with decreased prefrontal cortical thickness and greater PTSD Severity among trauma-exposed veterans. *Molecular Psychiatry*. doi:10.1038/mp.2015.134
32. **Spielberg, JM**, Miller, GA, Heller, W, & Banich, MT. (2015). Flexible brain network reconfiguration supporting inhibitory control. *Proceedings of the National Academy of Sciences*, 112(32), 10020-5. doi:10.1073/pnas.1500048112
31. **Spielberg, JM**, McGlinchey, RE, Milberg, WP, & Salat, DH. (2015). Brain network disturbance related to posttraumatic stress & traumatic brain injury in veterans. *Biological Psychiatry*, 78(3), 210-6. doi:10.1016/j.biopsych.2015.02.013
30. **Spielberg, JM**, Jarcho, JM, Dahl, RE, Pine, DS, Ernst, M, & Nelson, EE. (2015). Anticipation of peer evaluation in anxious adolescents: divergence in neural activation & maturation. *Social Cognitive & Affective Neuroscience*, 10(8), 1084-91. doi:10.1093/scan/nsu165
29. **Spielberg, JM**, Galarce, EM, Ladouceur, CD, McMakin, DL, Olino, TM, Forbes, EE, Silk, JS, Ryan, ND, & Dahl, RE. (2015). Adolescent development of inhibition as a function of SES & gender: converging evidence from behavior & fMRI. *Human Brain Mapping*, 36(8), 3194-203. doi:10.1002/hbm.22838
28. **Spielberg, JM**, Forbes, EE, Ladouceur, CD, Worthman, CM, Olino, TM, Ryan, ND, & Dahl, RE. (2015). Pubertal testosterone influences threat-related amygdala-orbitofrontal coupling. *Social Cognitive & Affective Neuroscience*, 10(3), 408-15. doi:10.1093/scan/nsu062
27. Sadeh, N, **Spielberg, JM**, Miller, MW, Milberg, WP, Salat, DH, Amick, M, Fortier, CB, & McGlinchey, RE. (2015). Neurobiological indicators of disinhibition in posttraumatic stress disorder. *Human Brain Mapping*, 36(8), 3076-86. doi:10.1002/hbm.22829
26. Herting, MM, Gautam, P, **Spielberg, JM**, Dahl, RE, & Sowell, ER. (2015). A longitudinal study: changes in cortical thickness and surface area during pubertal maturation. *PLOS ONE*, 10(3), e0119774. doi:10.1371/journal.pone.0119774
25. Kaiser, RH, Andrews-Hanna, JR, **Spielberg, JM**, Warren, SL, Sutton, BP, Miller, GA, Heller, W, & Banich, MT. (2015) Distracted and down: Neural mechanisms of affective interference in subclinical depression. *Social Cognitive & Affective Neuroscience*, 10(5), 654-63. doi:10.1093/scan/nsu100
24. Hur, J, Miller, GA, McDavitt, JB, **Spielberg, JM**, Crocker, LD, Infantolino, ZP, Towers, DN, Warren, SL, & Heller, W. (2015). Interactive effects of trait and state affect on top-down control of attention. *Social Cognitive & Affective Neuroscience*, 10(8), 1128-36. doi:10.1093/scan/nsu163

23. Miller, MW, Wolf, EJ, Sadeh, N, Logue, M, **Spielberg, JM**, Hayes, JP, Sperbeck, E, Schichman, SA, Stone, A, Carter, WC, Humphries, DE, Milberg, W, & McGlinchey, R. (2015). A novel locus in the oxidative stress-related gene ALOX12 moderates the association between PTSD and thickness of the prefrontal cortex. *Psychoneuroendocrinology*, 62, 359-65. doi:10.1016/j.psyneuen.2015.09.003
22. *Sadeh, N, ***Spielberg, JM**, Warren, SL, Miller, GA, & Heller, W. (2014). Aberrant neural connectivity during emotional processing associated with posttraumatic stress. *Clinical Psychological Science*, 2(6), 748-55. doi:10.1177/2167702614530113
*Authors contributed equally to this work
21. **Spielberg, JM**, Miller, GA, Warren, SL, Engels, AS, Sutton, BP, & Heller, W. (2014). Transdiagnostic dimensions of anxiety and depression moderate motivation-related brain networks during goal maintenance. *Depression & Anxiety*, 31(10), 805-13. doi:10.1002/da.22271
20. **Spielberg, JM**, Olino, TM, Forbes, EE, & Dahl, RE. (2014). Exciting fear in adolescence: Does pubertal development alter threat processing? *Developmental Cognitive Neuroscience*, 8, 86-95. doi:10.1016/j.dcn.2014.01.004
19. Dahl, RE, & **Spielberg, JM**. (2014). Response to Helfinstein & Casey. *Developmental Cognitive Neuroscience*, 8, 98-9. doi:10.1016/j.dcn.2014.02.008
18. Herting, MM, Gautam, P, **Spielberg, JM**, Kan, E, Dahl, RE, & Sowell, ER. (2014). The role of testosterone and estradiol in brain volume changes across adolescence: A longitudinal structural MRI study. *Human Brain Mapping*, 35(11), 5633-45. doi:10.1002/hbm.22575
17. **Spielberg, JM**, Heller, W, & Miller, GA. (2013). Hierarchical brain networks active in approach and avoidance goal pursuit. *Frontiers in Human Neuroscience*, 7, 284. doi:10.3389/fnhum.2013.00284
Featured article on the *Frontiers* homepage, June 2013
16. **Spielberg, JM**, De Leon, AA, Bredemeier, K, Heller, W, Engels, AS, Warren, SL, Crocker, LD, Sutton, BP, & Miller, GA. (2013). Anxiety type modulates immediate vs. delayed engagement of attention-related brain regions. *Brain & Behavior*, 3(5), 532-51. doi:10.1002/brb3.157
15. Sadeh, N, **Spielberg, JM**, Heller, W, Herrington, JD, Engels, AS, Warren, SL, Crocker, LD, Sutton, BP, & Miller, GA. (2013). Emotion disrupts neural activity during selective attention in psychopathy. *Social Cognitive & Affective Neuroscience*, 8(3), 235-46. doi:10.1093/scan/nsr092
14. Miller, GA, Crocker, LD, **Spielberg, JM**, Infantolino, ZP, & Heller, W. (2013). Issues in localization of brain function: The case of lateralized frontal cortex in cognition, emotion, and psychopathology. *Frontiers in Integrative Neuroscience*, 7, 2. doi: 10.3389/fnint.2013.00002
13. Warren, SL, Crocker, LD, **Spielberg, JM**, Engels, AS, Banich, MT, Sutton, BP, Miller, GA, & Heller, W. (2013). Cortical organization of inhibition-related functions and modulation by psychopathology. *Frontiers in Human Neuroscience*, 7, 271. doi:10.3389/fnhum.2013.00271
12. **Spielberg, JM**, Miller, GA, Warren, SL, Engels, AS, Crocker, LD, Sutton, BP, & Heller, W. (2012). Trait motivation moderates neural activation associated with goal pursuit. *Cognitive, Affective, & Behavioral Neuroscience*, 12(2), 308-22. doi:10.3758/s13415-012-0088-8

11. **Spielberg, JM**, Miller, GA, Warren, SL, Engels, AS, Crocker, LD, Banich, MT, Sutton, BP, & Heller, W. (2012). A brain network instantiating approach and avoidance motivation. *Psychophysiology*, 49(9), 1200-14. doi:10.1111/j.1469-8986.2012.01443.x
 10. Bredemeier, K, Berenbaum, H, & **Spielberg, JM**. (2012). Worry and perceived threat of proximal and distal undesirable outcomes. *Journal of Anxiety Disorders*, 26(3), 425-9. doi:10.1016/j.janxdis.2012.01.001
 9. Crocker, LD, Heller, W, **Spielberg, JM**, Warren, SL, Bredemeier, K, Banich, MT, & Miller, GA. (2012). Neural mechanisms in attentional control differentiate trait and state negative affect. *Frontiers in Emotion Science*, 3, 298. doi:10.3389/fpsyg.2012.00298
 8. **Spielberg, JM**, Miller, GA, Engels, AS, Herrington, JD, Sutton, BP, Banich, MT, & Heller, W. (2011). Trait approach and avoidance motivation: Lateralized neural activity associated with executive function. *NeuroImage*, 54(1), 661-70. doi:10.1016/j.neuroimage.2010.08.037
 7. **Spielberg, JM**, Heller, W, Silton, RL, Stewart, JL, & Miller, GA. (2011). Approach and avoidance profiles distinguish dimensions of anxiety and depression. *Cognitive Therapy & Research*, 35(4), 359-71. doi:10.1007/s10608-011-9364-0
 6. Silton, RL, Heller, W, Towers, DN, Engels, AS, Edgar, JC, **Spielberg, JM**, Sass, SM, Stewart, JL, Sutton, BP, Banich, MT, & Miller, GA. (2011). Depression and anxious apprehension distinguish frontocingulate cortical activity during top-down attentional control. *Journal of Abnormal Psychology*, 120(2), 272-85. doi:10.1037/a0023204
 5. Bredemeier, K, **Spielberg, JM**, Silton, RL, Berenbaum, H, Heller, W, & Miller, GA. (2010). Screening for clinical depression using the MASQ anhedonic depression scale: A receiver-operator characteristic analysis. *Psychological Assessment*, 22(3), 702-10. doi:10.1037/a0019915
 4. Engels, AS, Heller, W, **Spielberg, JM**, Warren, SL, Sutton, BP, Banich, MT, & Miller, GA. (2010). Anxiety comorbidity influences patterns of brain asymmetry in depression. *Cognitive, Affective, & Behavioral Neuroscience*, 10(1), 141-56. doi:10.3758/CABN.10.1.141
 3. Silton, RL, Miller, GA, Towers, DN, Engels, AS, Edgar, JC, **Spielberg, JM**, Sass, SM, Stewart, JL, Sutton, BP, Banich, MT, & Heller, W. (2010). The time course of activity in dorsolateral prefrontal cortex and anterior cingulate cortex during top-down attentional control. *NeuroImage*, 50(3), 1292-302. doi:10.1016/j.neuroimage.2009.12.061
 2. Warren, SL, Bost, K, Roisman, GI, Silton, RL, **Spielberg, JM**, Choi, E, Sutton, BP, Miller, GA, & Heller, W. (2010). Effects of adult attachment and emotional distractors on brain mechanisms of cognitive control. *Psychological Science*, 21(12), 1818-26. doi:10.1177/0956797610388809
 1. **Spielberg, JM**, Heller, W, Stewart, JL, Levin, RL, & Miller, GA. (2008). Prefrontal cortex, emotion, and approach/withdrawal motivation. *Social & Personality Psychology Compass*, 2(1), 135-53. doi:10.1111/j.1751-9004.2007.00064.x
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PRESENTATIONS

Invited Presentations

8. **Spielberg, JM**, McGlinchey, RE, Milberg, WP, & Salat, DH. (2015). Neuropsychological Correlates of Brain Networks Related to Posttraumatic Stress and Mild TBI. In WP Milberg (Chair), 'In Search of Endophenotypes—Genetic and Neural Biomarkers of Trauma-Related Pathologies' (invited symposium). Annual meeting of the *American Psychological Association*, Toronto, Canada.
7. **Spielberg, JM**. (2014). Graph theory GLM: A MATLAB Toolbox. Methods and Tutorial Series: VA Boston Healthcare System.
6. **Spielberg, JM**. (2013). Graph theory approaches to resting fMRI. Methods and Tutorial Series: VA Boston Healthcare System.
5. **Spielberg, JM**, & Dahl, RE. (2012). Pubertal development in threat processing. Brain Networks Journal Club: Stanford University.
4. **Spielberg, JM**. (2011). Neural instantiation of goal-directed behavior. Developmental Affective Science Collective: University of Pittsburgh.
3. **Spielberg, JM**. (2010). Understanding motivational temperaments at multiple levels of analysis. Clinical/Community Division: University of Illinois Urbana-Champaign.
2. **Spielberg, JM**. (2008). Neural correlates of temperamental motivation. Clinical/Community Division: University of Illinois Urbana-Champaign.
1. Heller, W, **Spielberg, JM**, & Miller, GA. (2008). Cognitive and affective neuroscience insights into personality, emotional regulation, and cognitive style. Invited address for NIH Staff Training in Extramural Programs (STEP) seminar, 'Introverts/extraverts: Some assembly required'. Washington, DC.

Symposia Chaired

1. **Spielberg, JM**. (2015), 'Recent Developments in Research on the Neural Circuitry of PTSD'. Annual meeting of the *Anxiety & Depression Association of America*, Miami, FL.

Conference Symposia

10. **Spielberg, JM**, McGlinchey, RE, Milberg, WP, & Salat, DH. (2015). Brain network disturbance related to posttraumatic stress & traumatic brain injury in OEF/OIF veterans. In JM Spielberg (Chair), 'Recent Developments in Research on the Neural Circuitry of PTSD'. Annual meeting of the *Anxiety & Depression Association of America*, Miami, FL.
9. Nelson, EE, Guyer, AE, Jarcho, JM, **Spielberg, JM**, & Pine, DS. (2015). Neurobiological profiles of socially anxious adolescents as they anticipate and receive judgments from their peers. Annual meeting of the *Social & Affective Neuroscience Society*, Boston, MA.
8. Sadeh, N, **Spielberg, JM**, Miller, MW, Milberg, WP, Salat, DH, Amick, M, Fortier, C. & McGlinchey, RE. (2015). Neurobiological indicators of disinhibition in posttraumatic stress disorder. In JM Spielberg (Chair), 'Recent Developments in Research on the Neural Circuitry of PTSD'. Annual meeting of *Anxiety & Depression Association of America*, Miami, FL.

7. **Spielberg, JM**, Heller, W, & Miller, GA. (2014). Anxiety type modulates immediate versus delayed engagement of attention-related brain regions. In HW Koenigsberg (Chair), 'The Impact of Anomalies in the Emotional Regulatory Mechanism of Habituation in Psychotic, Anxiety, Personality and Developmental Disorders'. Annual meeting of the *American College of Neuropsychopharmacology*, Phoenix, AZ.
6. **Spielberg, JM**, Jarcho, JM, Dahl, RE, Pine, DS, & Nelson, EE. (2014). Anticipating peer evaluation in adolescence: Anxiety-related divergence in the maturation of motivation-related neural circuits. Annual meeting of the *Anxiety & Depression Association of America*, Chicago, IL.
5. **Spielberg, JM**, Olino, TM, Forbes, EE, Ladouceur, CD, Ryan, ND, & Dahl, RE. (2013). Pubertal increases in testosterone influence amygdala-orbitofrontal coupling. Annual meeting of the *Social & Affective Neuroscience Society*, San Francisco, CA.
4. Heller, W, Crocker, LD, **Spielberg, JM**, Warren, SL, Bredemeier, KE, McDavitt, J, Hur, J, Banich, MT, Sutton, BP, & Miller, GA. (2011). Neural correlates of negative affect and its role in cognition/emotion interactions in psychopathology. Annual meeting of the *Society for Research in Psychopathology*, Boston, MA.
3. Heller, W, Warren, SL, **Spielberg, JM**, Engels, AS, Siltan, RL, Sass, SM, Stewart, JL, Crocker, LD, Towers, DN, Sutton, BP, Banich, MT, & Miller, GA. (2010). Understanding risk for psychopathology: Brain mechanisms of emotion-cognition interaction. Annual meeting of the *Association for Behavioral & Cognitive Therapies*, San Francisco, CA.
2. Warren, SL, Bost, KK, Roisman, GI, Siltan, RL, **Spielberg, JM**, Engels, AS, Choi, E, Miller, GA, & Heller, W. (2009). Secure base script knowledge and psychopathology as predictors of response patterns to emotional stimuli: An fMRI investigation. Biennial meeting of the *Society for Research & Child Development*, Denver, CO.
1. Towers, DN, Engels, AS, Stewart, JL, **Spielberg, JM**, Miller, GA, & Heller, W. (2008). Choosing sides: Happily approaching left frontal cortex in psychopathology and emotion. Annual meeting of the *Society for Psychophysiological Research*, Austin, TX.

AWARDS

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| 2015 | Early Career Achievement Award
American Psychological Association |
| 2015 | Spivack Scholar in the Neurosciences (Early Career)
Boston University School of Medicine |
| 2014 | Career Development Leadership Award
Anxiety and Depression Association of America |
| 2011 | Ed Scheiderer Memorial Research Award
University of Illinois at Urbana-Champaign |

GRANTS

- 2012-2013 **Co-Principal Investigator, “Adolescent Development in Risk Preferences”**
UC Berkeley seed grant with funds from the Robert Wood Johnson Health and Society Scholars Program, the Institute for Business and Economic Research, & the Experimental Social Science Laboratory \$10,000 TDC
- 2012 **Postdoctoral Investigator, “Conceptual & Methodological Advancement of Sensation-Seeking”**
Robert Wood Johnson Health and Society Scholars Program, \$15,000 TDC
- 2012-2014 **Organizing Committee, “Decision Making & Emotion Regulation during Life-Span Transitions”**
National Institute on Aging R13 AG043207, \$68,044 TDC

SOFTWARE

PRIMARY DEVELOPER:

Graph-Theoretic GLM (GTG) – NITRC-listed Matlab toolbox allowing user to compute graph theoretic properties on input networks and use these properties as dependent variables in a GLM. In essence, the toolbox allows the user to test whether organizational properties of networks (e.g., integration, segregation) covary with predictors of interest. Also includes a state-of-the-art processing stream for resting-state and task fMRI.

www.nitrc.org/projects/metalab_gtg

RRID: SCR_014075

4th most active tool on NITRC during its 1st week of release

Currently 500+ downloads on NITRC

Spielberg, JM. (2014). Graph theoretic general linear model: a MATLAB toolbox. *Brain Connectivity*, 4, A120. doi:10.1089/brain.2014.1501.abstracts

TEACHING & MENTORING

- Spring 2012 **Instructor, Multidisciplinary Perspectives on the Study of Behavior Change (PSYCHOLOGY 290K)**
University of California, Berkeley, Department of Psychology
- 2010-2011 **Instructor, Adult Inpatient Assessment Practicum (PSYCH 546)**
University of Illinois at Urbana-Champaign, Department of Psychology
- 2009-2010 **Mentor, Undergraduate Honors Thesis (PSYCH 491, Honors Individual Study)**
University of Illinois at Urbana-Champaign, Department of Psychology
Thesis won the 2010 Undergraduate Clinical-Community Science Award.

PROFESSIONAL SERVICE & ACADEMIC ORGANIZATIONS

Ad-hoc reviewer: *Biological Psychiatry, Biological Psychology, BMC Psychiatry, Brain Topography, Cognition & Emotion, Cognitive, Affective, & Behavioral Neuroscience, Depression & Anxiety, Developmental Cognitive Neuroscience, Developmental Science, Drug & Alcohol Dependence, European Archives of Psychiatry & Clinical Neuroscience, European Psychiatry, Human Brain Mapping, JAMA Psychiatry, Journal of Affective Disorders, Journal of Traumatic Stress, Nature Communications, NeuroImage, NeuroImage: Clinical, Neuropsychologia, PLOS ONE, Psychoneuroendocrinology, Psychophysiology, Scientific Reports, Schizophrenia Bulletin*

2015 – Present Member, *American Psychological Association*

2013 – Present Member, *Anxiety and Depression Association of America*

2013 – Present Member, *New York Academy of Sciences*

2013 – Present Member, *Social & Affective Neuroscience Society*

2010 – Present Member, *Association for Psychological Science*

2008 – Present Member, *Interdisciplinary Behavioral Science Center: Determinants of Executive Function and Dysfunction*
