

JEFFREY M. SPIELBERG

CURRICULUM VITAE
UPDATED 09.28.22

Department of Psychological & Brain Sciences
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EDUCATION

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

EMPLOYMENT

- 2016-present **Assistant Professor**
Clinical Science Program
Department of Psychological & Brain Sciences
University of Delaware
PCSAS-accredited, APA-accredited
- 2016-2018 **Associated Investigator**
Neuroimaging Research for Veterans (NeRVe) Center
VA Boston Healthcare System
- 2014-2016 **Assistant Professor of Psychology**
Department of Psychiatry
Boston University School of Medicine
- 2013-2016 **Associate Director of Neuroimaging Analysis Development**
Neuroimaging Research for Veterans (NeRVe) 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.

- 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 & Radiology
 Massachusetts General Hospital
 Research supervisors: Hans Breiter, M.D., Nancy Etcoff, Ph.D.
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PUBLICATIONS

Peer-Reviewed Journal Articles

^ = trainee author

In Press

69. ^Bounoua N, ^Miglin R, **Spielberg JM**, Johnson CL, & Sadeh N. (in press). Childhood trauma moderates morphometric associations between orbitofrontal cortex and amygdala: Implications for pathological personality traits. *Psychological Medicine*. doi:10.1017/S0033291720004468
68. ^Bounoua N, **Spielberg JM**, & Sadeh N. (in press). Clarifying the synergistic effects of emotion dysregulation and inhibitory control on physical aggression. *Human Brain Mapping*. doi:10.1002/hbm.26012
67. Sadeh N, ^Miglin R, ^Bounoua N, Sheehan AE, & **Spielberg JM**. (in press). Development of a cortical delay discounting assay: A potential biomarker of externalizing disorders. *Psychological Medicine*. doi:10.1017/S003329172100252X

2022

66. Cha J, **Spielberg JM**, Hu, B, Altinay M, & Anand A. (2022). Differences in network properties of the structural connectome in bipolar and unipolar depression. *Psychiatry Research: Neuroimaging*, 321, 111442. doi:10.1016/j.psychresns.2022.111442
65. Cha J, **Spielberg JM**, Hu, B, Altinay M, & Anand A. (2022). Resting-state functional connectome graph-properties correlate with bipolar disorder-risk in young medication-free depressed subjects. *Journal of Affective Disorders*, 301, 52-9. doi:10.1016/j.jad.2022.01.033
64. ^Church LD, ^Bounoua N, ^Rodriguez SN, Bredemeier K, & **Spielberg JM**. (2022). Longitudinal relationships between COVID-19 preventative behaviors and perceived vulnerability to disease. *Journal of Anxiety Disorders*, 88, 102561. doi:10.1017/S0033291720004468

63. ^AMatyi MA, & **Spielberg JM**. (2022). The structural brain network topology of episodic memory. *PLOS ONE*, 17(6), e0270592. doi:10.1371/journal.pone.0270592
62. McIlvain G, Schneider JM, ^AMatyi MA, McGarry MDJ, Qi Z, **Spielberg JM**, & Johnson CL. (2022). Mapping brain mechanical property maturation from childhood to adulthood. *NeuroImage* 263, 119590. doi:10.1016/j.neuroimage.2022.119590
61. Sheehan AE, ^AHeilner E, ^ABounoua N, ^AMiglin R, **Spielberg JM**, & Sadeh N. (2022). Cortical thickness in parietal regions link perseverative thinking with suicidal ideation. *Journal of Affective Disorders*, 306, 131-7. doi:10.1016/j.jad.2022.03.019
60. **Spielberg JM**, Sadeh N, Cha J, ^AMatyi MA, & Anand A. (2022). Affect-regulation related emergent brain network properties differentiate depressed bipolar disorder from major depression and track risk for bipolar. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 7(8), 765-73. doi:10.1016/j.bpsc.2021.09.007

2021

59. ^ACha J, Speaker S, Hu B, Altinay M, Koirala P, Karne H, **Spielberg JM**, & Anand A. (2021). Neuroimaging correlates of emotional response-inhibition discriminate between young depressed adults with and without sub-threshold bipolar symptoms. *Journal of Affective Disorders*, 218, 303-11. doi:10.1016/j.jad.2020.12.037
58. ^AMatyi MA, Cioaba S, Banich MT, & **Spielberg JM**. (2021). Identifying brain regions supporting amygdalar functionality: Application of a novel graph theory technique. *NeuroImage*, 244, 118614. doi:10.1016/j.neuroimage.2021.118614
57. ^AMatyi MA, & **Spielberg JM**. (2021). Differential spatial patterns of structural connectivity of amygdala nuclei with orbitofrontal cortex. *Human Brain Mapping*, 42(5), 1391-405. doi:10.1002/hbm.25300
56. Sheehan AE, ^ABounoua N, ^AMiglin R, **Spielberg JM**, & Sadeh N. (2021). A multilevel examination of lifetime aggression: Integrating cortical thickness, personality pathology and trauma exposure. *Social Cognitive and Affective Neuroscience*, 16(7), 716-25. doi:10.1093/scan/nsab042
55. Zheng Y, Garrett ME, Sun D, Clarke-Rubright EK, Haswell CC, Maihofer AX, Elman JA, Franz CE, Lyons MJ, Kremen WS, Peverill M, Sambrook K, McLaughlin KA, Davenport ND, Disner S, Sponheim SR, Andrew E, Korgaonkar M, Bryant R, Varkevisser T, Geuze E, Coleman J, Beckham JC, Kimbrel NA, Sullivan D, Miller M, Hayes J, Verfaellie M, Wolf E, Salat D, **Spielberg JM**, Milberg W, McGlinchey R, Dennis EL, Thompson PM, Medland S, Jahanshad N, Nievergelt CM, Ashley-Koch AE, Logue MW, & Morey RA. (2021). Trauma and posttraumatic stress disorder modulate polygenic predictors of hippocampal and amygdala volume. *Translational Psychiatry*, 11, 637. doi:10.1038/s41398-021-01707-x

2020

54. Anand A., Grandhi J, Karne H, & **Spielberg JM**. (2020). Intrinsic functional connectivity during continuous maintenance and suppression of emotion in bipolar disorder. *Brain Imaging & Behavior*, 14, 1747-57. doi:10.1007/s11682-019-00109-4
53. Anand A, Nakamura K, **Spielberg JM**, ^ACha J, Karne H, & Hu B. (2020). Integrative analysis of lithium treatment associated effects on brain structure and peripheral gene expression reveals novel molecular insights into mechanism of action. *Translational Psychiatry*, 10, 103. doi:10.1038/s41398-020-0784-z
52. ^ABounoua N, ^AMiglin R, **Spielberg JM**, & Sadeh N. (2020). Childhood assaultive trauma and physical aggression: Links with cortical thickness in prefrontal and occipital cortices. *NeuroImage: Clinical*, 27, 102321. doi:10.1016/j.nicl.2020.102321
51. McIlvain G, Clements RG, Magoon EM, **Spielberg JM**, Telzer EH, & Johnson CL. (2020). Viscoelasticity of reward and control systems in adolescent risk taking. *NeuroImage*, 215, 116850. doi:10.1016/j.neuroimage.2020.116850
50. ^AMiglin R, ^ABounoua N, **Spielberg JM**, & Sadeh N. (2020). A transdiagnostic examination of affective motivations for drug use. *Addictive Behaviors Reports*, 12, 100279. doi: 10.1016/j.abrep.2020.100279
49. Guha A, **Spielberg JM**, Lake J, Popov T, Heller W, Yee CM, & Miller GA. (2020). Effective connectivity between Broca's area and amygdala as a mechanism of top-down control in worry. *Clinical Psychological Science*. 8(1), 84-9. doi:10.1177/2167702619867098

2019

48. ^ABartholomew ME, Yee CM, Heller W, Miller GA, & **Spielberg JM**. (2019). Reconfiguration of brain networks supporting inhibition of emotional challenge. *NeuroImage*, 186, 350-7. doi:10.1016/j.neuroimage.2018.10.066
47. Lake JI, **Spielberg JM**, Infantolino ZP, Crocker LD, Yee CM, Heller W, & Miller GA. (2019). Reward anticipation and punishment anticipation are instantiated in the brain via opponent mechanisms. *Psychophysiology*, 56(8), e13381. doi:10.1111/psyp.13381
46. ^AMiglin R, ^ABounoua N, Goodling S, ^ASheehan A, **Spielberg JM**, & Sadeh N. (2019). Cortical thickness links impulsive personality traits and risky behavior. *Brain Sciences*, 9(12), 373. doi:10.3390/brainsci9120373
45. Sadeh N, **Spielberg JM**, Logue MW, Hayes JP, Wolf EJ, McGlinchey RE, Milberg WP, Schichman SA, Stone A, & Miller MW. (2019). Linking genes, circuits, & behavior: Network connectivity as a novel endophenotype of externalizing. *Psychological Medicine*, 49(11), 1905-13. doi:10.1017/S0033291718002672
44. **Spielberg JM**, ^AMatyi MA, Karne H, & Anand A. (2019). Lithium monotherapy associated longitudinal effects on resting state brain networks in clinical treatment of bipolar disorder. *Bipolar Disorders*, 21(4), 361-71. doi:10.1111/bdi.12718

43. **Spielberg JM**, Schwarz JM, & ^AMatyi MA. (2019). Anxiety in transition: Neuroendocrine mechanisms supporting the development of anxiety pathology in adolescence and young adulthood. *Frontiers in Neuroendocrinology*, 55, 100791. doi:10.1016/j.yfrne.2019.100791

2018

42. Logue MW, van Rooij SJH, Dennis EL, Davis SL, Hayes JP, Stevens JS, Densmore M, Haswell CC, Ipser J, Koch SB, Korgaonkar M, Lebois LAM, Peverill M, Baker JT, Boedhoe PSW, Frijling JL, Gruber SA, Harpaz-Rotem I, Jahanshad N, Koopowitz S, Levy I, Nawijn L, O'Connor L, Olf M, Salat DH, Sheridan MA, **Spielberg JM**, van Zuiden M, Winternitz SR, Wolff JD, Wolf EJ, Wang X, Wrocklage K, Abdallah CG, Bryant RA, Geuze E, Jovanovic T, Kaufman ML, King AP, Krystal JH, Lagopoulos J, Lanius R, Liberzon I, McGlinchey RE, McLaughlin KA, Milberg WP, Miller MW, Ressler KJ, Veltman DJ, Stein DJ, Thomaes K, Thompson PM, Morey RA. (2018). Smaller hippocampal volume in posttraumatic stress disorder: A multi-site ENIGMA-PGC study. *Biological Psychiatry*, 83(3), 244-53. doi:10.1016/j.biopsych.2017.09.006
41. Popov T, Westner BU, Silton RL, Sass SM, **Spielberg JM**, Rockstroh B, Heller W, & Miller GA. (2018). Time course of brain network reconfiguration supporting inhibitory control. *Journal of Neuroscience*, 38(18), 4348-56. doi:10.1523/JNEUROSCI.2639-17.2018
40. Sadeh N, **Spielberg JM**, & Hayes JP. (2018). Impulsive responding in threat and reward contexts as a function of PTSD symptoms and trait disinhibition. *Journal of Anxiety Disorders*, 53, 76-84. doi:10.1016/j.janxdis.2017.11.001

2017

39. Hayes JP, Logue MW, Sadeh N, **Spielberg JM**, Verfaellie M, Hayes SM, Reagan A, Salat DH, Wolf EJ, McGlinchey RE, Milberg WP, Stone A, Schichman SA, & Miller MW. (2017). Mild traumatic brain injury is associated with greater cortical thinning in brain regions sensitive to neurodegeneration among individuals at genetic risk for Alzheimer's disease. *Brain*, 140(3), 813-25. doi:10.1093/brain/aww344
38. Hayes JP, Logue, MW, Reagan A, Salat DH, Wolf EJ, Sadeh N, **Spielberg JM**, Sperbeck E, Hayes SM, McGlinchey RE, Milberg WP, Verfaellie M, & Miller MW. (2017). COMT Val158Met polymorphism moderates the association between PTSD symptom severity and hippocampal volume. *Journal of Psychiatry and Neuroscience*, 42(2), 95-102. doi:10.1503/jpn.150339
37. Miller DR, Hayes SM, Hayes JP, **Spielberg JM**, Lafleche G, & Verfaellie M. (2017). Default mode network subsystems are differentially disrupted in posttraumatic stress disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 2(4), 363-71. doi:10.1016/j.bpsc.2016.12.006

36. **Spielberg JM**, Sadeh N, Leritz EC, McGlinchey RE, Milberg WP, Hayes JP, & Salat DH. (2017). Higher serum cholesterol is associated with intensified age-related neural network decoupling & cognitive decline in early- to mid-life. *Human Brain Mapping*, 38(6), 3249-61. doi:10.1002/hbm.23587

2016

35. Burdwood EN, Infantolino ZP, Crocker LD, **Spielberg JM**, Banich MT, Miller GA, & Heller W. (2016). Resting-state functional connectivity differentiates anxious apprehension and anxious arousal. *Psychophysiology*, 53(10), 1451-9. doi:10.1111/psyp.12696
34. 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. (2016). SKA2 methylation is associated with decreased prefrontal cortical thickness and greater PTSD Severity among trauma-exposed veterans. *Molecular Psychiatry*, 21(3), 357-63. doi:10.1038/mp.2015.134
33. **Spielberg JM**, Beall EB, Hulvershorn LA, Altinay M, Karne H, & Anand A. (2016). Resting state brain network disturbances related to hypomania & depression in medication-free bipolar disorder. *Neuropsychopharmacology*, 41, 3016-24. doi:10.1038/npp.2016.112

2015

32. 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
31. 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
30. 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
29. 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
28. 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

27. **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
26. **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
25. **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
24. **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
23. **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

2014

22. Dahl RE, & **Spielberg JM**. (2014). Response to Helfinstein & Casey. *Developmental Cognitive Neuroscience*, 8, 98-9. doi:10.1016/j.dcn.2014.02.008
21. 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
20. *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
19. **Spielberg JM**, Miller GA, Warren SL, Banich MT, 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
18. **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

2013

17. 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
16. 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
15. **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
14. **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
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

2012

12. 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
11. 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
10. **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
9. **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

2011

8. 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
7. **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
6. **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

2010 & Prior

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**, Engels AS, 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

9. **Spielberg JM**, Bartholomew ME, Miller GA, Banich MT, Yee CM, & Heller W. (2017). Brain network reconfiguration supporting inhibitory control in affective and non-affective contexts. Conference on *New Insights into Affective and Behavioral Regulatory Processes*, Rutgers University, New Brunswick, NJ.
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

17. Sadeh N, Miglin R, Bounoua N, Sheehan A, & **Spielberg JM**. (2021). Development of a cortical delay discounting assay: A potential biomarker of externalizing disorders. Flash talk presented at the annual meeting of the *Association for Psychological Science*.
16. **Spielberg JM**, Sadeh N, Cha J, Matyi MA, Karne H, & Anand A. (2021). Emergent brain network properties differentiate depressed bipolar from major depression & track risk for bipolar. Flash talk presented at the annual meeting of the *Association for Psychological Science*.
15. Bounoua N, Miglin R, **Spielberg JM**, & Sadeh N. (2019). Childhood assaultive trauma and adult aggression: Links with cortical thickness in prefrontal and occipital cortices. Symposium presented at the *Annual Delaware Neuroscience Research and Poster Symposium*, Delaware Center for Neuroscience Research, Newark, DE.
14. Hayes JP, Logue MW, Salat DH, Wolf EJ, Sadeh N, **Spielberg JM**, Reagan A, Sperbeck E, McGlinchey RE, Milberg WP, Verfaellie M, & Miller MW. (2015). COMT VAL158MET modulates hippocampal volume in posttraumatic stress disorder. In WP Milberg (Chair), *In Search of Endophenotypes: Genetic and Neural Biomarkers of Trauma-Related Pathologies*. Symposium presented at the annual convention of the *American Psychological Association*, Toronto, CA.
13. Miller MW, Wolf EJ, Sadeh N, Logue M, **Spielberg JM**, Hayes JP, Sperbeck E, Stone A, Milberg WP, & McGlinchey RE. (2015). A novel locus in the oxidative stress-related gene ALOX12 moderates the association between PTSD and thickness of the prefrontal cortex. In MW Miller (Chair), *Neuroimaging-Genetic Studies of PTSD*. Symposium presented at the annual meeting of the *International Society for Traumatic Stress Studies*, New Orleans, LA.
12. 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.
11. 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. (2015). SKA2 methylation is associated with decreased prefrontal cortical thickness and greater PTSD severity among trauma-exposed veterans. In N Sadeh (Chair), *Biomarkers of Suicide in Trauma-Exposed Groups*. Symposium presented at the annual meeting of the *International Society for Traumatic Stress Studies*, New Orleans, L.A.
10. 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.

9. **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.
 8. Sadeh N, **Spielberg JM**, Warren SL, Miller GA, & Heller W. (2014). Aberrant neural connectivity during emotional processing associated with posttraumatic stress. Paper presented at *Anxiety & Depression Association of America*, Chicago, IL.
 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.
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AWARDS

- 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
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GRANTS

CURRENT FUNDING

- 2021-2026 **Principal Investigator, “Testing a Dual Mechanism Model of Adolescent Anxiety Development & Related Sex Differences”**
National Institute of Mental Health 1R01MH123470-01A1, \$2,229,609 TDC
- 2019-2024 **Co-Investigator, “Intervening Early with Neglected Children: Key Behavioral and Neurobiological Outcomes in Adolescence”**
National Institute of Mental Health 2R01MH074374-11, \$2,332,405 TDC
- 2019-2024 **Co-Investigator, “Adaptive and Maladaptive Neural Network Responses to Inhibitory Challenges”**
National Institute of Mental Health 1R01MH116228-01A1, \$2,020,635 TDC

COMPLETED FUNDING

- 2019-2021 **Target Investigator, “Testing a Dual Mechanism Model of Adolescent Anxiety & Related Sex Differences”**
National Institute of General Medical Sciences P20GM103653, \$440,000 TDC
- 2017-2021 **Co-Investigator, “Lithium Effects on the Brain's Functional and Structural Connectome in the Treatment of Bipolar Disorder”**
National Institute of Mental Health R01 MH113256-01A1, \$2,377,599 TDC
- 2018-2020 **Principal Investigator, Loan Repayment Plan (Clinical Research)**
National Institute of Mental Health L30 MH117662, \$21,630 TDC

- 2019-2020 **Principal Investigator, “Anxiety in Transition: The Role of Myelination & Testosterone on Pathological Anxiety During Emerging Adulthood”**
David H. and Beverly A. Barlow Grant, American Psychological Foundation, \$7,500 TDC
- 2017-2019 **Principal Investigator, “The Interactive Impact of Testosterone and Brain Network Myelination on the Developmental Trajectory of Anxiety”**
University of Delaware Research Foundation, \$35,000 TDC
- 2017-2019 **Co-Investigator, “Identifying Adaptive and Maladaptive Responses in the Human Connectome to Inhibitory Control Challenges”**
National Institute of General Medical Sciences 2P20GM103653-06, \$534,209 TDC
- 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

TRAINING GRANTS SPONSOR/MENTOR

- 2021-2023 **Co-Sponsor (Miglin PI), “Connectome-Based Prediction of Addiction Severity”**
National Institute of Drug Abuse 1F31DA053782 \$138,000 TDC
- 2021-2023 **Sponsor (Church PI), “A Complex Brain Network Analysis of Emotion-Regulation Development Across Adolescence”**
National Science Foundation GRF \$138,000 TDC
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SOFTWARE

PRIMARY DEVELOPER:

Graph-Theoretic GLM (GTG) – NITRC-listed Matlab toolbox allowing user to compute graph theory 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

3,700+ 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

CONTRIBUTOR:

Brain Connectivity Toolbox (BCT) – Contributed several functions. Toolbox for computing graph theory properties and related functions, primarily developed by Mika Rubinov and Olaf Sporns.

CURRENT/RECENT TEACHING

- 2016-2022 **NCSI 438** **Clinical Neuroscience**
Department of Psychological & Brain Sciences, University of Delaware
Core course for undergraduate Neuroscience major. Created a new upper-level undergraduate course on the intersection of psychopathology and neuroscience.
- 2018-2020 **PSYC 867-11** **Motivation & Emotion**
Department of Psychological & Brain Sciences, University of Delaware
Core course in graduate Clinical Science curriculum. Created a new graduate course on motivation and emotion.
- 2019 **PSYC 809** **Research Design**
Department of Psychological & Brain Sciences, University of Delaware
Required core course in graduate Clinical Science curriculum. Graduate-level research design for students in clinical science.

DISSERTATION/THESIS COMMITTEES

Rickie Miglin, 2022-, Naomi Sadeh Chair

Diego Caban-Rivera, 2021-, Curtis Johnson Chair

Melanie A. Matyi, 2021-2022, Jeffrey M. Spielberg Chair

Nadia Bounoua, 2021-2022, Naomi Sadeh Chair

Zachary H. Gursky, 2017-2020, Anna Y. Klintsova Chair

Irene Li, 2019-2020, Sheau Ching Chai Chair

Emilio A. Valadez, 2017-19, Robert F. Simons Chair

PROFESSIONAL SERVICE & ACADEMIC ORGANIZATIONS

Chair: *Executive Committee, Center for Biomedical & Brain Imaging, University of Delaware*

Member: *VA-University of Delaware Academic Partnership Council*

Consulting Editor: *Cognitive, Affective, & Behavioral Neuroscience (2017-20)*

Ad-hoc grant reviewer: *NIH Neural Basis of Psychopathology, Addictions, and Sleep Disorders (NPAS; Spring 2020, Spring 2021); NSF Grant Reviewer (2020)*

Ad-hoc reviewer: *American Journal of Psychiatry; Annals of Clinical and Translational Neurology; Attention, Perception, & Psychophysics; Biological Psychiatry; Biological Psychiatry: Cognitive Neuroscience and Neuroimaging; Biological Psychiatry: Global Open Science; Biological Psychology; Biological Rhythm Research; BMC Psychiatry; Brain Imaging & Behavior; Brain Topography; Cerebral Cortex; Child Development; Clinical Psychology Review; CNS Drugs; Cognition & Emotion; Cognitive, Affective, & Behavioral Neuroscience; Depression & Anxiety; Developmental Cognitive Neuroscience; Developmental Science; Drug & Alcohol Dependence; European Archives of Psychiatry & Clinical Neuroscience; European Psychiatry; Experimental Neurology; Frontiers in Behavioral Neuroscience; Frontiers in Human Neuroscience; Frontiers in Pharmacology; Frontiers in Psychology; Human Brain Mapping; JAMA Psychiatry; Journal of Affective Disorders; Journal of Neuroscience; Journal of Traumatic Stress; Mindfulness; Nature Communications; NeuroImage; NeuroImage: Clinical; Neuropsychologia; Neuroscience Letters; PLOS ONE; Psychiatric Research; Psychiatric Research: Neuroimaging; Psychological Medicine; Psychological Science; Psychoneuroendocrinology; Psychophysiology; Scientific Reports; Schizophrenia Bulletin; Social Cognitive & Affective Neuroscience; Translational Psychiatry*

2017 – Present Member, *Flux: The Society for Developmental Cognitive Neuroscience*

2016 – Present Member, *Society for Research in Psychopathology*

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