JEFFREY M. SPIELBERG

CURRICULUM VITAE
UPDATED 1.14.24

Department of Psychological & Brain Sciences
University of Delaware
Newark, DE 19716
Office: 230 Wolf Hall
Lab: Suite 405 Wolf Hall
E-mail: jmsp@udel.edu
ORCID: 0000-0001-8348-7157
Website: https://sites.udel.edu/jmsp

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

2023-present **Associate Professor**
Clinical Science Program
Department of Psychological & Brain Sciences
University of Delaware
PCSAS-accredited, APA-accredited

2016-2022 **Assistant Professor**
Clinical Science Program
Department of Psychological & Brain Sciences
University of Delaware

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.

PUBLICATIONS

Peer-Reviewed Journal Articles

[Δ] = *trainee author*

In Press

74. [Δ]Korom M, Valadez EA, Tottenham N, Dozier M, & **Spielberg JM**. (in press). Preliminary examination of the effects of an early parenting intervention on amygdala-orbitofrontal cortex resting-state functional connectivity among high-risk children: A randomized clinical trial. *Development and Psychopathology*.

2023

73. [Δ]Church LD, Shayani DR, Stumps A, [Δ]Bounoua N, [Δ]Weiand K, & **Spielberg JM**. (2023). Gender differences in the transactional associations between anxiety sensitivity and emotion regulation over time. *Journal of Mood & Anxiety Disorders*, 4, 100037. doi:10.1016/j.xjmad.2023.100037

72. [Δ]Bounoua N, [Δ]Church LD, [Δ]Matyi MA, [Δ]Rudoler J, [Δ]Weiand K, & **Spielberg JM**. (2023). Assessing the utility of a novel cortical marker of delay discounting (C-DD) in two independent samples of early adolescents: Links with externalizing pathology. *PLOS ONE*, 18(9), e0291868. doi:10.1371/journal.pone.0291868

71. [Δ]Matyi MA & **Spielberg JM**. (2023). Negative emotion differentiation and white matter microstructure. *Journal of Affective Disorders*, 332, 238-46. doi:10.1016/j.jad.2023.04.010

70. Sadeh N, [Δ]Miglin R, [Δ]Bounoua N, Sheehan AE, & **Spielberg JM**. (2023). Development of a cortical delay discounting assay: A potential biomarker of externalizing disorders. *Psychological Medicine*, 53(4), 1143-50. doi:10.1017/S003329172100252X

69. Bredemeier K, ᴬChurch LD, ᴬBounoua N, Feler B., & **Spielberg, JM**. (2023). Intolerance of uncertainty, anxiety sensitivity, and health anxiety during the COVID-19 pandemic: Exploring temporal relationships using cross-lag analysis. *Journal of Anxiety Disorders*, 93, 102660. doi:10.1016/j.janxdis.2022.102660

2022

68. ᴬBounoua N, ᴬMiglin R, **Spielberg JM**, Johnson CL, & Sadeh N. (2022). Childhood trauma moderates morphometric associations between orbitofrontal cortex and amygdala: Implications for pathological personality traits. *Psychological Medicine,* 52(13), 2578-87. doi:10.1017/S0033291720004468

67. ᴬBounoua N, **Spielberg JM**, & Sadeh N. (2022). Clarifying the synergistic effects of emotion dysregulation and inhibitory control on physical aggression. *Human Brain Mapping*, 43(17), 5358-69. doi:10.1002/hbm.26012

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.pscychresns.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. ᴬChurch LD, ᴬBounoua N, ᴬRodriguez 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. ^Cha 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. ^Matyi 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. ^Matyi 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, ^Bounoua N, ^Miglin 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, … **Spielberg JM**, … 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**, ^Cha 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. ^Bounoua N, ^Miglin 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. ^Miglin R, ^Bounoua 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, … **Spielberg JM**, … 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, Silton 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, Silton 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

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

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

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

2016-2023 **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.

2018-2023 **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

Marta Koron, 2023-, Mary Dozier Chair

Diego Caban-Rivera, 2023-, Curtis Johnson Chair

Shaina Rosenblum, 2023-, Jasmic Cloutier Chair

Rickie Miglin, 2022-, Naomi Sadeh Chair

Kyra Twohy, 2022-, Curtis Johnson Chair

Caroline Diehl, 2021-2023, Cindy Yee-Bradbury Chair (UCLA)

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*