

CURRICULUM VITAE  
University of Pittsburgh  
School of Medicine

**BIOGRAPHICAL**

**Name:** Beatriz Luna, Ph.D.

**Birth Place:** Santiago, Chile

**Home Address:**

5525 Hampton Street  
Pittsburgh, PA 15206

**Citizenship:** Chile and United States

**Home Phone:** (412) 362-1558

**E-Mail Address:** lunab@upmc.edu

**Business Address:**

Western Psychiatric Institute & Clinic  
University of Pittsburgh Medical Center  
Loeffler Building  
121 Meyran Avenue  
Suite 100  
Pittsburgh, PA 15213

**Business Fax:** (412) 383-8179

**Business Phone:** (412) 383-8167

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**EDUCATION and TRAINING**

**UNDERGRADUATE:**

1980-1984	American University, Washington, DC	B.A. (1984)	Psychology
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**GRADUATE:**

1984-1985	Duquesne University Pittsburgh, PA	M.A. (1985)	Clinical Psychology
1988-1996	University of Pittsburgh Pittsburgh, PA	Ph.D. (1996)	Developmental Psychology Advisor: Velma Dobson, Ph.D.

**POST DOCTORAL TRAINING:**

1995-1997	Western Psychiatric Institute & Clinic Pittsburgh, PA	Neurobehavioral Studies Mentor: John A. Sweeney, Ph.D.
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**APPOINTMENTS and POSITIONS**

**ACADEMIC:**

1997-2000	University of Pittsburgh School of Medicine	Visiting Research Assistant Professor of Psychiatry
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	Department of Psychiatry Pittsburgh, PA	
2000-2001	University of Pittsburgh School of Medicine Department of Psychiatry Pittsburgh, PA	Research Assistant Professor of Psychiatry
2000- Present	University of Pittsburgh and Carnegie Mellon University Center for Neural Basis of Cognition Pittsburgh, PA	Faculty
2001-2002	University of Pittsburgh School of Medicine Department of Psychiatry Pittsburgh, PA	Assistant Professor of Psychiatry
2002- Present	University of Pittsburgh Medical Center Western Psychiatric Institute and Clinic Laboratory of Neurocognitive Development Pittsburgh, PA	Founder and Director
2002-2008	University of Pittsburgh School of Medicine Department of Psychiatry Pittsburgh, PA	Associate Professor of Psychiatry <i>Primary Appointment</i>
2003- 2011	University of Pittsburgh Department of Psychology Pittsburgh, PA	Associate Professor of Psychology <i>Secondary Appointment</i>
2005-Present	Center for Neuroscience University of Pittsburgh Pittsburgh, PA	Training Faculty
2008-2011	University of Pittsburgh School of Medicine Department of Psychiatry Pittsburgh, PA	Associate Professor of Psychiatry with Tenure <i>Primary Appointment</i>
2011-Present	University of Pittsburgh School of Medicine Department of Psychiatry Pittsburgh, PA	Professor of Psychiatry <i>Primary Appointment</i>

2011-Present	University of Pittsburgh Department of Psychology Pittsburgh, PA	Professor of Psychology <i>Secondary Appointment</i>
2013-Present	Children's Hospital of Pittsburgh of UPMC Pittsburgh, PA	Staunton Professor of Psychiatry and Pediatrics
2015-2018	Frontiers for Young Minds Understanding Neuroscience	Associate Editor
2018-	The International Union of Psychological Science (IUPsyS) National Academy of Sciences	Invited Editor
2018-	Developmental Cognitive Neuroscience	Editor in Chief
2020-	URM JEDI ABCD Council	Co-Chair
2021-2023	University of Pittsburgh, Magnetic Resonance Research Center Pittsburgh, PA	Interim Co-Director
2023	University of Pittsburgh, Magnetic Resonance Research Center Pittsburgh, PA	Director
2023-Present	University of Pittsburgh Department of Bioengineering Pittsburgh, PA	Professor of Bioengineering <i>Secondary Appointment</i>

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**MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES**

Society for Neuroscience	1996-Present
Center for Cognitive Brain Imaging	1998-Present
Association for Academic Minority Physicians	1998
Cognitive Neuroscience Society	1999-Present
American Association for the Advancement of Science	2000-Present

Society for Research in Child Development	2001-Present
American Psychological Association	2001-Present
Pittsburgh Neuroscience Society	2002-Present
New York Academy of Sciences	2003-Present
American Psychological Society	2004-Present
Society for Research on Adolescence	2008-Present
The Society for Clinical and Translational Science	2009-Present
Flux: The Society for Developmental Cognitive Neuroscience	2013-Present
U.S. National Committee for Psychological Sciences – National Academy of Sciences	2018-Present

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#### **HONORS**

Phi Kappa Phi Honor Society	1984
Best Psychology Student of 1984	1984
Top Ten Women in the Arts and Sciences	1984
Magna Cum Laude	1984
NARSAD Young Investigator Award	1997
NIMH Research Career Award (K01)	1999
The Presidential Early Career Award for Scientists and Engineers	2005
Faculty Honoree at the 31 <sup>st</sup> Annual Honors Convocation	2007
'Fellow' of the World Innovation Foundation	2007

WPIC Department of Psychiatry Emerging Mentor Award	2010
Fellow of the Association for Psychological Science	2011
Gallagher Lecture - Society for Adolescent Health and Medicine	2014
University of Pittsburgh Excellence in Doctoral Mentoring	2022
NIMH MERIT Award	2022
Distinguished Professor of Psychiatry	2022

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## PUBLICATIONS

### REFEREED ARTICLES:

1. Mastropaolo JP, Dacanay RJ, **Luna B**, Tuck DL, Riley AL. Effects of trimethyltin chloride on differential-reinforcement-of-low-rate responding. *Neurobehav Toxicol Teratol.* 1984 May-Jun;6(3):193-9. PMID: 6493423.
2. **Luna B**, Dobson V, Carpenter NA, Biglan AW. Visual field development in infants with stage 3 retinopathy of prematurity. *Invest Ophthalmol Vis Sci.* 1989 ar;30(3):580-2. PMID: 2925326.
3. **Luna B**, Dobson V, Biglan AW. Development of grating acuity in infants with regressed stage 3 retinopathy of prematurity. *Invest Ophthalmol Vis Sci.* 1990 Oct;31(10):2082-7. PMID: 2211005.
4. **Luna B**, Dobson V, Guthrie RD. Grating acuity and visual field development of infants with bronchopulmonary dysplasia. *Dev Med Child Neurol.* 1992 Sep;34(9):813-21. PMID: 1526351.
5. Dobson V, **Luna B**. Prototype and teller acuity cards yield similar acuities in infants and young children despite stimulus differences. *Clin Vis Sci.* 1993;8:395-400.
6. Getz L, Dobson V, **Luna B**. Development of grating acuity, letter acuity, and visual fields in small-for-gestational-age preterm infants. *Early Hum Dev.* 1994 Dec 16;40(1):59-71. PMID: 7712962.
7. **Luna B**, Dobson V, Scher MS, Guthrie RD. Grating acuity and visual field development in infants following perinatal asphyxia. *Dev Med Child Neurol.* 1995 Apr;37(4):330-44. PMID: 7698524.

8. Getz LM, Dobson V, **Luna B**, Mash C. Interobserver reliability of the Teller Acuity Card procedure in pediatric patients. *Invest Ophthalmol Vis Sci.* 1996 Jan;37(1):180-7. PMID: 8550321.
9. Harvey EM, Dobson V, **Luna B**. Long-term grating acuity and visual-field development in preterm children who experienced bronchopulmonary dysplasia. *Dev Med Child Neurol.* 1997 Mar;39(3):167-73. PMID: 9112965.
10. **Luna B**, Thulborn KR, Strojwas MH, McCurtain BJ, Berman RA, Genovese CR, Sweeney JA. Dorsal cortical regions subserving visually guided saccades in humans: an fMRI study. *Cereb Cortex.* 1998 Jan-Feb;8(1):40-7. PMID: 9510384.
11. Sweeney JA, **Luna B**, Srinivasagam NM, Keshavan MS, Schooler NR, Haas GL, Carl JR. Eye tracking abnormalities in schizophrenia: evidence for dysfunction in the frontal eye fields. *Biol Psychiatry.* 1998 Oct 15;44(8):698-708. PMID: 9798073.
12. Minshew NJ, **Luna B**, Sweeney JA. Oculomotor evidence for neocortical systems but not cerebellar dysfunction in autism. *Neurology.* 1999 Mar 23;52(5):917-22. PMID: 10102406; PMCID: PMC2995853.
13. Sweeney JA, **Luna B**, Haas GL, Keshavan MS, Mann JJ, Thase ME. Pursuit tracking impairments in schizophrenia and mood disorders: step-ramp studies with unmedicated patients. *Biol Psychiatry.* 1999 Sep 1;46(5):671-80. PMID: 10472419.
14. Berman RA, Colby CL, Genovese CR, Voyvodic JT, **Luna B**, Thulborn KR, Sweeney JA. Cortical networks subserving pursuit and saccadic eye movements in humans: an fMRI study. *Hum Brain Mapp.* 1999;8(4):209-25. PMID: 10619415.
15. Sweeney JA, Rosano C, Berman RA, **Luna B**. Inhibitory control of attention declines more than working memory during normal aging. *Neurobiol Aging.* 2001 Jan-Feb;22(1):39-47. PMID: 11164275.
16. **Luna B**, Thulborn KR, Munoz DP, Merriam EP, Garver KE, Minshew NJ, Keshavan MS, Genovese CR, Eddy WF, Sweeney JA. Maturation of widely distributed brain function subserves cognitive development. *Neuroimage.* 2001 May;13(5):786-93. PMID: 11304075.
17. Merriam EP, Colby CL, Thulborn KR, **Luna B**, Olson CR, Sweeney JA. Stimulus-response incompatibility activates cortex proximate to three eye fields. *Neuroimage.* 2001 May;13(5):794-800. PMID: 11304076.
18. Rosano C, Krisky CM, Welling JS, Eddy WF, **Luna B**, Thulborn KR, Sweeney JA. Pursuit and saccadic eye movement subregions in human frontal eye field: a high-resolution fMRI investigation. *Cereb Cortex.* 2002 Feb;12(2):107-15. PMID: 11739259.
19. **Luna B**, Minshew NJ, Garver KE, Lazar NA, Thulborn KR, Eddy WF, Sweeney JA. Neocortical system abnormalities in autism: an fMRI study of spatial working memory. *Neurology.* 2002 Sep 24;59(6):834-40. PMID: 12297562.
20. Keshavan MS, Diwadkar VA, Spencer SM, Harenski KA, **Luna B**, Sweeney JA. A preliminary functional magnetic resonance imaging study in offspring of schizophrenic

- parents. *Prog Neuropsychopharmacol Biol Psychiatry*. 2002 Oct;26(6):1143-9. PMID: 12452537.
21. Nofzinger EA, Buysse DJ, Germain A, Carter C, **Luna B**, Price JC, Meltzer CC, Miewald JM, Reynolds CF 3rd, Kupfer DJ. Increased activation of anterior paralimbic and executive cortex from waking to rapid eye movement sleep in depression. *Arch Gen Psychiatry*. 2004 Jul;61(7):695-702. PMID: 15237081.
  22. Takarae Y, Minshew NJ, **Luna B**, Sweeney JA. Oculomotor abnormalities parallel cerebellar histopathology in autism. *J Neurol Neurosurg Psychiatry*. 2004 Sep;75(9):1359-61. PMID: 15314136; PMCID: PMC1739220.
  23. **Luna B**, Garver KE, Urban TA, Lazar NA, Sweeney JA. Maturation of cognitive processes from late childhood to adulthood. *Child Dev*. 2004 Sep-Oct;75(5):1357-72. PMID: 15369519.
  24. **Luna B**. Algebra and the adolescent brain. *Trends Cogn Sci*. 2004 Oct;8(10):437-9. PMID: 15450503.
  25. Takarae Y, Minshew NJ, **Luna B**, Krisky CM, Sweeney JA. Pursuit eye movement deficits in autism. *Brain*. 2004 Dec;127(Pt 12):2584-94. Epub 2004 Oct 27. PMID: 15509622.
  26. Nowinski CV, Minshew NJ, **Luna B**, Takarae Y, Sweeney JA. Oculomotor studies of cerebellar function in autism. *Psychiatry Res*. 2005 Nov 15;137(1-2):11-9. Epub 2005 Oct 7. PMID: 16214219.
  27. Habeych ME, Folan MM, **Luna B**, Tarter RE. Impaired oculomotor response inhibition in children of alcoholics: The role of attention deficit hyperactivity disorder. *Drug Alcohol Depend*. 2006 Mar 15;82(1):11-7. Epub 2005 Oct 3. PMID: 16203110.
  28. Scherf KS, Sweeney JA, **Luna B**. Brain basis of developmental change in visuospatial working memory. *J Cogn Neurosci*. 2006 Jul;18(7):1045-58. PMID: 16839280.
  29. Behrmann M, Avidan G, Leonard GL, Kimchi R, **Luna B**, Humphreys K, Minshew N. Configural processing in autism and its relationship to face processing. *Neuropsychologia*. 2006;44(1):110-29. PMID: 15907952.
  30. Asato MR, Sweeney JA, **Luna B**. Cognitive processes in the development of TOL performance. *Neuropsychologia*. 2006;44(12):2259-69. Epub 2006 Jun 23. PMID: 16797612.
  31. **Luna B**, Doll SK, Hegedus SJ, Minshew NJ, Sweeney JA. Maturation of executive function in autism. *Biol Psychiatry*. 2007 Feb 15;61(4):474-81. Epub 2006 May 2. PMID: 16650833.
  32. Steele SD, Minshew NJ, **Luna B**, Sweeney JA. Spatial working memory deficits in autism. *J Autism Dev Disord*. 2007 Apr;37(4):605-12. PMID: 16909311.
  33. Geier CF, Garver KE, **Luna B**. Circuitry underlying temporally extended spatial working memory. *Neuroimage*. 2007 Apr 1;35(2):904-15. Epub 2006 Dec 29. PMID: 17292627; PMCID: PMC4397654. *Recipient of the Tim Post Award for outstanding article by a graduate student*

34. Scherf KS, Behrmann M, Humphreys K, **Luna B**. Visual category-selectivity for faces, places and objects emerges along different developmental trajectories. *Dev Sci*. 2007 Jul;10(4):F15-30. PMID: 17552930.
35. Takarae Y, Minshew NJ, **Luna B**, Sweeney JA. Atypical involvement of frontostriatal systems during sensorimotor control in autism. *Psychiatry Res*. 2007 Nov 15;156(2):117-27. Epub 2007 Oct 3. PMID: 17913474; PMCID: PMC2180158.
36. McNamee RL, Dunfee KL, **Luna B**, Clark DB, Eddy WF, Tarter RE. Brain activation, response inhibition, and increased risk for substance use disorder. *Alcohol Clin Exp Res*. 2008 Mar;32(3):405-13. doi: 10.1111/j.1530-0277.2007.00604.x. PMID: 18302723.
37. Scherf KS, **Luna B**, Kimchi R, Minshew N, Behrmann M. Missing the big picture: impaired development of global shape processing in autism. *Autism Res*. 2008 Apr;1(2):114-29. doi: 10.1002/aur.17. PMID: 19360658; PMCID: PMC2670479.
38. Scherf KS, Behrmann M, Minshew N, **Luna B**. Atypical development of face and greeble recognition in autism. *J Child Psychol Psychiatry*. 2008 Aug;49(8):838-47. doi: 10.1111/j.1469-7610.2008.01903.x. Epub 2008 Apr 17. PMID: 18422548; PMCID: PMC3071970.
39. Velanova K, Wheeler ME, **Luna B**. Maturation changes in anterior cingulate and frontoparietal recruitment support the development of error processing and inhibitory control. *Cereb Cortex*. 2008 Nov;18(11):2505-22. doi: 10.1093/cercor/bhn012. Epub 2008 Feb 14. PMID: 18281300; PMCID: PMC2733315.
40. Takarae Y, **Luna B**, Minshew NJ, Sweeney JA. Patterns of visual sensory and sensorimotor abnormalities in autism vary in relation to history of early language delay. *J Int Neuropsychol Soc*. 2008 Nov;14(6):980-9. doi: 10.1017/S1355617708081277. PMID: 18954478; PMCID: PMC2928719.
41. Geier CF, Garver K, Terwilliger R, **Luna B**. Development of working memory maintenance. *J Neurophysiol*. 2009 Jan;101(1):84-99. doi: 10.1152/jn.90562.2008. Epub 2008 Oct 29. PMID: 18971297; PMCID: PMC2637004.
42. Scherf KS, Behrmann M, Kimchi R, **Luna B**. Emergence of global shape processing continues through adolescence. *Child Dev*. 2009 Jan-Feb;80(1):162-77. doi: 10.1111/j.1467-8624.2008.01252.x. PMID: 19236399; PMCID: PMC2648130.
43. Loe IM, Feldman HM, Yasui E, **Luna B**. Oculomotor performance identifies underlying cognitive deficits in attention-deficit/hyperactivity disorder. *J Am Acad Child Adolesc Psychiatry*. 2009 Apr;48(4):431-40. doi: 10.1097/CHI.0b013e31819996da. PMID: 19238098; PMCID: PMC3045710.
44. D'Cruz AM, Mosconi MW, Steele S, Rubin LH, **Luna B**, Minshew N, Sweeney JA. Lateralized response timing deficits in autism. *Biol Psychiatry*. 2009 Aug 15;66(4):393-7. doi: 10.1016/j.biopsych.2009.01.008. Epub 2009 Feb 20. PMID: 19232577; PMCID: PMC3145409.
45. Velanova K, Wheeler ME, **Luna B**. The maturation of task set-related activation supports late developmental improvements in inhibitory control. *J Neurosci*. 2009 Oct



- 7;29(40):12558-67. doi: 10.1523/JNEUROSCI.1579-09.2009. PMID: 19812330; PMCID: PMC2788337.
46. Geier CF, Terwilliger R, Teslovich T, Velanova K, **Luna B**. Immaturities in reward processing and its influence on inhibitory control in adolescence. *Cereb Cortex*. 2010 Jul;20(7):1613-29. doi: 10.1093/cercor/bhp225. Epub 2009 Oct 29. PMID: 19875675; PMCID: PMC2882823.
  47. Andrews JS, Ben-Shachar M, Yeatman JD, Flom LL, **Luna B**, Feldman HM. Reading performance correlates with white-matter properties in preterm and term children. *Dev Med Child Neurol*. 2010 Jun;52(6):e94-100. doi: 10.1111/j.1469-8749.2009.03456.x. Epub 2009 Sep 11. PMID: 19747208; PMCID: PMC2892255.
  48. Asato MR, Terwilliger R, Woo J, **Luna B**. White matter development in adolescence: a DTI study. *Cereb Cortex*. 2010 Sep;20(9):2122-31. doi: 10.1093/cercor/bhp282. Epub 2010 Jan 5. PMID: 20051363; PMCID: PMC2923214.
  49. Ordaz S, Davis S, **Luna B**. Effects of response preparation on developmental improvements in inhibitory control. *Acta Psychol (Amst)*. 2010 Jul;134(3):253-63. doi: 10.1016/j.actpsy.2010.02.007. Epub 2010 Mar 26. PMID: 20347061; PMCID: PMC2885497.
  50. Scherf KS, **Luna B**, Minshew N, Behrmann M. Location, Location, Location: Alterations in the Functional Topography of Face- but not Object- or Place-Related Cortex in Adolescents with Autism. *Front Hum Neurosci*. 2010 Mar 22;4:26. doi: 10.3389/fnhum.2010.00026. eCollection 2010. PMID: 20631857; PMCID: PMC2904054.
  51. O'Hearn K, Schroer E, Minshew N, **Luna B**. Lack of developmental improvement on a face memory task during adolescence in autism. *Neuropsychologia*. 2010 Nov;48(13):3955-60. doi: 10.1016/j.neuropsychologia.2010.08.024. Epub 2010 Sep 8. PMID: 20813119; PMCID: PMC2975893.
  52. Hwang K, Velanova K, **Luna B**. Strengthening of top-down frontal cognitive control networks underlying the development of inhibitory control: a functional magnetic resonance imaging effective connectivity study. *J Neurosci*. 2010 Nov 17;30(46):15535-45. doi: 10.1523/JNEUROSCI.2825-10.2010. PMID: 21084608; PMCID: PMC2995693. *Recipient of the Tim Post Award for outstanding article by a graduate student*
  53. Asato MR, Nawarawong N, Hermann B, Crumrine P, **Luna B**. Deficits in oculomotor performance in pediatric epilepsy. *Epilepsia*. 2011 Feb;52(2):377-85. doi: 10.1111/j.1528-1167.2010.02787.x. Epub 2010 Nov 18. PMID: 21087246; PMCID: PMC3059774.
  54. Chung T, Geier C, **Luna B**, Pajtek S, Terwilliger R, Thatcher D, Clark DB. Enhancing response inhibition by incentive: comparison of adolescents with and without substance use disorder. *Drug Alcohol Depend*. 2011 May 1;115(1-2):43-50. doi: 10.1016/j.drugalcdep.2010.10.017. Epub 2010 Nov 27. PMID: 21115229; PMCID: PMC3047601.
  55. Lee ES, Yeatman JD, **Luna B**, Feldman HM. Specific language and reading skills in school-aged children and adolescents are associated with prematurity after controlling for IQ. *Neuropsychologia*. 2011 Apr;49(5):906-913. doi:

- 10.1016/j.neuropsychologia.2010.12.038. Epub 2010 Dec 30. PMID: 21195100; PMCID: PMC3078177.
56. O'Hearn K, Lakusta L, Schroer E, Minshew N, **Luna B**. Deficits in adults with autism spectrum disorders when processing multiple objects in dynamic scenes. *Autism Res.* 2011 Apr;4(2):132-42. doi: 10.1002/aur.179. Epub 2011 Jan 19. PMID: 21254449; PMCID: PMC3074038.
  57. Scherf KS, **Luna B**, Avidan G, Behrmann M. "What" precedes "which": Developmental neural tuning in face- and place-related cortex. *Cereb Cortex.* 2011 Sep;21(9):1963-80. doi: 10.1093/cercor/bhq269. Epub 2011 Jan 21. PMID: 21257673; PMCID: PMC3202723.
  58. Loe IM, Lee ES, **Luna B**, Feldman HM. Behavior problems of 9-16 year old preterm children: biological, sociodemographic, and intellectual contributions. *Early Hum Dev.* 2011 Apr;87(4):247-52. doi: 10.1016/j.earlhumdev.2011.01.023. Epub 2011 Feb 12. PMID: 21316875; PMCID: PMC3180905.
  59. O'Hearn K, Roth JK, Courtney SM, **Luna B**, Street W, Terwillinger R, Landau B. Object recognition in Williams syndrome: uneven ventral stream activation. *Dev Sci.* 2011 May;14(3):549-65. doi: 10.1111/j.1467-7687.2010.01002.x. Epub 2010 Nov 11. PMID: 21477194; PMCID: PMC3074094.
  60. Loe IM, Lee ES, **Luna B**, Feldman HM. Executive function skills are associated with reading and parent-rated child function in children born prematurely. *Early Hum Dev.* 2012 Feb;88(2):111-8. doi: 10.1016/j.earlhumdev.2011.07.018. Epub 2011 Aug 16. PMID: 21849240; PMCID: PMC3660611.
  61. Padmanabhan A, Geier CF, Ordaz SJ, Teslovich T, **Luna B**. Developmental changes in brain function underlying the influence of reward processing on inhibitory control. *Dev Cogn Neurosci.* 2011 Oct;1(4):517-29. doi: 10.1016/j.dcn.2011.06.004. PMID: 21966352; PMCID: PMC3181104.
  62. Geier CF, **Luna B**. Developmental effects of incentives on response inhibition. *Child Dev.* 2012 Jul-Aug;83(4):1262-74. doi: 10.1111/j.1467-8624.2012.01771.x. Epub 2012 Apr 27. PMID: 22540668; PMCID: PMC3399954.
  63. Loe IM, **Luna B**, Bledsoe IO, Yeom KW, Fritz BL, Feldman HM. Oculomotor assessments of executive function in preterm children. *J Pediatr.* 2012 Sep;161(3):427-433.e1. doi: 10.1016/j.jpeds.2012.02.037. Epub 2012 Apr 4. PMID: 22480696; PMCID: PMC3638733.
  64. Feldman HM, Lee ES, Loe IM, Yeom KW, Grill-Spector K, **Luna B**. White matter microstructure on diffusion tensor imaging is associated with conventional magnetic resonance imaging findings and cognitive function in adolescents born preterm. *Dev Med Child Neurol.* 2012 Sep;54(9):809-14. doi: 10.1111/j.1469-8749.2012.04378.x. Epub 2012 Jul 16. PMID: 22803787; PMCID: PMC3683593.
  65. Hwang K, Hallquist MN, **Luna B**. The development of hub architecture in the human functional brain network. *Cereb Cortex.* 2013 Oct;23(10):2380-93. doi: 10.1093/cercor/bhs227. Epub 2012 Aug 8. PMID: 22875861; PMCID: PMC3767958.

66. O'Hearn K, Franconeri S, Wright C, Minshew N, **Luna B**. The development of individuation in autism. *J Exp Psychol Hum Percept Perform*. 2013 Apr;39(2):494-509. doi: 10.1037/a0029400. Epub 2012 Sep 10. PMID: 22963232; PMCID: PMC3608798.
67. Fair DA, Nigg JT, Iyer S, Bathula D, Mills KL, Dosenbach NU, Schlaggar BL, Mennes M, Gutman D, Bangaru S, Buitelaar JK, Dickstein DP, Di Martino A, Kennedy DN, Kelly C, **Luna B**, Schweitzer JB, Velanova K, Wang YF, Mostofsky S, Castellanos FX, Milham MP. Distinct neural signatures detected for ADHD subtypes after controlling for micro-movements in resting state functional connectivity MRI data. *Front Syst Neurosci*. 2013 Feb 4;6:80. doi: 10.3389/fnsys.2012.00080. eCollection 2012. PMID: 23382713; PMCID: PMC3563110.
68. Merz EC, McCall RB, Wright AJ, **Luna B**. Inhibitory control and working memory in post-institutionalized children. *J Abnorm Child Psychol*. 2013 Aug;41(6):879-90. doi: 10.1007/s10802-013-9737-9. PMID: 23519375; PMCID: PMC3708995.
69. Perlman SB, **Luna B**, Hein TC, Huppert TJ. fNIRS evidence of prefrontal regulation of frustration in early childhood. *Neuroimage*. 2014 Jan 15;85 Pt 1:326-34. doi: 10.1016/j.neuroimage.2013.04.057. Epub 2013 Apr 25. PMID: 23624495; PMCID: PMC3796135.
70. Mosconi MW, **Luna B**, Kay-Stacey M, Nowinski CV, Rubin LH, Scudder C, Minshew N, Sweeney JA. Saccade Adaptation Abnormalities Implicate Dysfunction of Cerebellar-Dependent Learning Mechanisms in Autism Spectrum Disorders (ASD). *PLoS One*. 2013 May 21;8(5):e63709. PMID: 23704934
71. Hallquist MN, Hwang K, **Luna B**. The nuisance of nuisance regression: spectral misspecification in a common approach to resting-state fMRI preprocessing reintroduces noise and obscures functional connectivity. *Neuroimage*. 2013 Nov 15;82:208-25. doi: 10.1016/j.neuroimage.2013.05.116. Epub 2013 Jun 6. PMID: 23747457; PMCID: PMC3759585.
72. Di Martino A, Yan CG, Li Q, Denio E, Castellanos FX, Alaerts K, Anderson JS, Assaf M, Bookheimer SY, Dapretto M, Deen B, Delmonte S, Dinstein I, Ertl-Wagner B, Fair DA, Gallagher L, Kennedy DP, Keown CL, Keyser C, Lainhart JE, Lord C, **Luna B**, Menon V, Minshew NJ, Monk CS, Mueller S, Müller RA, Nebel MB, Nigg JT, O'Hearn K, Pelphrey KA, Peltier SJ, Rudie JD, Sunaert S, Thioux M, Tyszka JM, Uddin LQ, Verhoeven JS, Wenderoth N, Wiggins JL, Mostofsky SH, Milham MP. The autism brain imaging data exchange: towards a large-scale evaluation of the intrinsic brain architecture in autism. *Mol Psychiatry*. 2014 Jun;19(6):659-67. doi: 10.1038/mp.2013.78. Epub 2013 Jun 18. PMID: 23774715; PMCID: PMC4162310.
73. Ordaz SJ, Foran W, Velanova K, **Luna B**. Longitudinal growth curves of brain function underlying inhibitory control through adolescence. *J Neurosci*. 2013 Nov 13;33(46):18109-24. doi: 10.1523/JNEUROSCI.1741-13.2013. PMID: 24227721; PMCID: PMC3828464.
74. Padmanabhan A, Lynn A, Foran W, **Luna B**, O'Hearn K. Age related changes in striatal resting state functional connectivity in autism. *Front Hum Neurosci*. 2013 Nov 28;7:814. doi: 10.3389/fnhum.2013.00814. eCollection 2013. PMID: 24348363; PMCID: PMC3842522.

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14. **Luna B**, Minshew NJ, Keshavan MS, Merriam EP, Eddy WE, Thulborn KR, Sweeney JA. Spatial working memory improves from late childhood to adulthood: Eye movement & fMRI studies. In: Proceedings of the 29<sup>th</sup> Annual Meeting of the Society for Neuroscience; 1999; Miami, FL. 1142 p.

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16. Merriam EP, Colby CL, Thulborn KR, **Luna B**, Olson CR, Sweeney JA. When “right” Means “left”: Activation adjacent to the three cortical eye fields when responses compete. In: Proceedings of the 7<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2000; San Francisco, CA.
17. **Luna B**, Garver KE, Merriam EP, Minshew NJ, Keshavan CR, Thulborn KR, Sweeney JA. Developmental fMRI studies of spatial working memory from late childhood to adulthood. In: Proceedings of the 7<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2000; San Francisco, CA. 61 p.
18. Garver KE, Minshew NJ, Sweeney JA, Thulborn KR, **Luna B**. Neocortical system abnormality in autism during an oculomotor spatial working memory task: An fMRI study. Poster session presented at: The 30<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2000; New Orleans, LA.
19. **Luna B**, Garver KE, Sweeney JA. Development in cognitive and sensorimotor systems from late childhood to adulthood. Paper presented at: The 30<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2000; New Orleans, LA.
20. **Luna B**, Garver KE, Gibbons MG, Minshew NJ, Sweeney JA. Maturation of basic attention and sensorimotor control from late childhood to adulthood: An fMRI study. Poster session presented at: The 31<sup>st</sup> Annual Meeting of the Society for Neuroscience; 2001; San Diego, CA.
21. Garver KE, Sweeney JA, Minshew NJ, Thulborn KR, Gibbons MG, **Luna B**. High-functioning autistic subjects show abnormalities in prefrontal cortical function during a spatial working memory task. In: Proceedings of the 8<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2001; New York, NY.
22. **Luna B**, Garver KE, Urban TA, Willford JA, Welling J, Asato MR. Response preparation underlies the ability to inhibit a response: Eye movement and fMRI studies from late childhood to adulthood. In: Proceedings of the 9<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2002; San Francisco, CA.
23. Garver KE, Urban TA, Willford JA, Asato MR, **Luna B**. Distributed circuitry supporting preparation to inhibit a response: Eye movement and fMRI studies. In: Proceedings of the 9<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2002; San Francisco, CA.
24. **Luna B**, Garver KE, Urban TA, Willford JA, Asato MR. Response preparation underlies the ability to inhibit a response: Eye movement and fMRI studies from late childhood to adulthood. In: Proceedings of the 10<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2003; New York, NY.
25. **Luna B**. The emergence of collaborative brain function: fMRI studies investigating the development of response suppression. Paper presented at: The 185<sup>th</sup> Annual Meeting of the New York Academy of Sciences; 2003; New York, NY.



26. **Luna B.** Neuroscience of adolescence. Paper presented at: The 21<sup>st</sup> Annual Meeting of the Society for Developmental and Behavioral Pediatrics; 2003; Pittsburgh, PA.
27. **Luna B,** Garver KE, Urban TA, Willford JA, Asato MR, Scherf S. The recruitment of brain regions underlying response preparation subserves the development of voluntary response inhibition from late childhood to adulthood. Poster session presented at: The 33<sup>rd</sup> Annual Meeting of the Society for Neuroscience; 2003; New Orleans, LA.
28. **Luna B.** Adolescence: The transition to mature brain processing and cognitive control of behavior. Paper presented at: The 10<sup>th</sup> Biennial Meeting of the Society for Research on Adolescence; 2004; Baltimore, MD.
29. Asato MR, **Luna B,** Sweeney JA. Cognitive correlates of the Tower of London task: Response inhibition and working memory. Poster session presented at: The 4<sup>th</sup> Annual Western Psychiatric Institute and Clinic Research Day; 2004; Pittsburgh, PA.
30. **Luna B,** Minshew NJ, Doll S, Wilds MA, Sweeney JA. Abnormal development of executive function in autism. Presentation at: The Annual Meeting for the Collaborative Programs of Excellence in Autism; 2004; Washington, DC.
31. **Luna B,** Garver KE, Asato MR, Scherf KS, Costello MC, Willford JA, Wilds MA, Geier CF. The role of the medial temporal lobe vs. frontoparietal regions in mature working memory. Poster session presented at: The 34<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2004 Oct; San Diego, CA.
32. Asato MR, Garver KE, Costello MC, Scherf KS, Geier CF, Wilds MA, Willford JA, **Luna B.** Brain processes supporting oculomotor sequence learning: An event related fMRI study. Poster session presented at: The 34<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2004 Oct; San Diego, CA.
33. Asato MR, Garver K, Costello M, Scherf KS, Willford J, **Luna B.** Changes in brain function during visuomotor sequence learning. Poster session presented at: The 34<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2004 Oct; San Diego, CA.
34. Geier CF, Garver KE, Scherf KS, Costello MC, Asato MR, Willford JA, **Luna B.** Early vs. persistent maintenance in working memory: A fast event-related fMRI oculomotor study. Paper presented at: The 34<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2004 Oct; San Diego, CA.
35. Scherf K, Behrmann M, Lewis JM, **Luna B.** Autism and object recognition: Evaluating the nature and developmental progression of deficits in configural processing. Poster session presented at: The 34<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2004 Oct; San Diego, CA.
36. Willford JA, Scherf KA, Asato M, Garver K, Sweeney JA, **Luna B.** A block design fMRI study to identify the distributed circuitry underlying antisaccade performance in adults. Poster session presented at: The 34<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2004 Oct; San Diego, CA.

37. Geier CF, Garver KE, Scherf KS, Costello MC, Asato MR, Willford JA, **Luna B**. Working memory maintenance during short and long delays: A fast event-related fMRI study. Poster session presented at: The 13<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2005 Apr; New York, NY.
38. Scherf KS, Berhmann M, Minshew N, **Luna B**. Face recognition deficits in autism: A failure to develop second-order configural processing skills? Poster session presented at: The 13<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2005 Apr; New York, NY.
39. Costello MC, Sweeney JA, **Luna B**. Developmental differences in cognitive control using a gap/overlap antisaccade task. Poster session presented at: The NIDA Supported Symposium at the American Psychological Association Annual Meeting; 2005 Nov; Washington, DC.
40. Asato MR, **Luna B**, Sweeney JA. Development of response planning in adolescence. Poster session presented at: The NIDA Supported Symposium at the American Psychological Association Annual Meeting; 2005 Nov; Washington, DC.
41. Geier CF, Costello M, Willford JA, **Luna B**. Inhibitory responses in the antisaccade task improve with longer fixation times. Poster session presented at: The 35<sup>th</sup> Annual Meeting of Society for Neuroscience; 2005 Nov; Washington, DC.
42. Sowell ER, Thompson PM, Kan E, Toga AW, **Luna B**. Mapping relationships between frontal cortical activation and cortical thickness in normal adolescents. Slide session presented at: The 35<sup>th</sup> Annual Meeting of Society for Neuroscience; 2005 Nov; Washington, DC.
43. Geier CF, McClland JJ, **Luna B**. A biologically inspired neural network model of the antisaccade task. Poster session presented at: The 14<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2006 Apr; San Francisco, CA.
44. Scherf KS, Behrmann M, **Luna B**. Emergence of face- and object-specific activation in developing brains. Poster session presented at: The 14<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2006 Apr; San Francisco, CA.
45. Macmillan C, Nowinski CV, Kay M, Scudder C, **Luna B**, Minshew NJ, Sweeney JA. Impaired saccade adaptation in autism. Poster session presented at: The 35<sup>th</sup> National Meeting of the Child Neurology Society; 2006 Oct; Pittsburgh, PA.
46. **Luna B**, Velanova K, Yasui EM, Thomas MA. The development of transient and sustained neural activity during voluntary response inhibition: A mixed block/event related fMRI study. Slide session presented at: The 36<sup>th</sup> Annual Meeting of Society for Neuroscience; 2006 Oct; Atlanta, GA.
47. Velanova K, Yasui EM, Thomas MA, **Luna B**. Functional anatomic correlates of voluntary response inhibition during oculomotor task performance: A mixed block/event-related fMRI study of transient and sustained neural activity. Poster session presented at: The 36<sup>th</sup> Annual Meeting of Society for Neuroscience; 2006 Oct; Atlanta, GA.
48. Asato M, Crumrine P, Yasui E, Vaisleib A, Terwilliger R, Teslovich T, **Luna B**. Neurobiological correlates of psychiatric co morbidities in medically treated pediatric

epilepsy patients. Poster session presented at: The National Institute of Neurological Disorders and Stroke Curing Epilepsy 2007: Translating Discoveries into Therapies; 2007 Mar; Bethesda, MD.

49. **Luna B.** Development of brain function supporting executive function in high-functioning autistic individuals. Slide session presented at: The Scientific Program of the 2<sup>nd</sup> International Congress of the Biological Psychiatry Congress; 2007 Apr; Santiago, Chile.
50. Velanova K, Yasui E, **Luna B.** Developmental changes in brain activity associated with the commission of response inhibition errors. Poster session presented at: The 15<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2007 May; New York City, NY.
51. Ordaz S, Yasui E, **Luna B.** Developmental changes in response preparation mediation of voluntary response inhibition. Poster session presented at: The 15<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2007 May; New York City, NY.
52. Geier C, Garver K, **Luna B.** Developmental changes in the circuitry underlying sustained working memory. Poster session presented at: The 15<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2007 May; New York City, NY.
53. Olagunju-Jones Y, **Luna B.** Pubertal timing and cognitive performance. Poster session presented at: The 15<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2007 May; New York City, NY.
54. Woo J, Terwilliger R, Asato M, Olagunju-Jones Y, **Luna B.** White matter development from childhood to young adulthood corresponding to cognitive development. Poster session presented at: The 15<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2007 May; New York City, NY.
55. Liu R, Garver KE, Geier C, Minshew N, Sweeney JA, **Luna B.** Developmental changes in brain function supporting voluntary response suppression in high-functioning autistic individuals. Poster session presented at: The 15<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society; 2007 May; New York City, NY.
56. Geier CF, Garver KE, **Luna B.** Developmental changes in the circuitry underlying sustained working memory. Poster session presented at: The WPIC 7<sup>th</sup> Annual Research Day; 2007 June; Pittsburgh, PA.
57. Velanova K, Yasui EM, **Luna B.** Developmental changes in brain activity associated with the commission of response inhibition errors. Poster session presented at: The WPIC 7<sup>th</sup> Annual Research Day; 2007 June; Pittsburgh, PA.
58. Asato M, Terwilliger R, Woo J, Olagunju-Jones Y, **Luna B.** White matter development from childhood to adulthood. Poster session presented at: The WPIC 7<sup>th</sup> Annual Research Day; 2007 June; Pittsburgh, PA. *Recipient of "Outstanding Poster Presentation".*
59. **Luna B.** From adolescent vulnerabilities to mature cognitive control: Neuroimaging studies of response inhibition and reward processes. Symposia presentation at: The International Society for Research in Child & Adolescent Psychopathology 13<sup>th</sup> Scientific Meeting "The Brain and the Developing Child"; 2007 June; London, England.

60. Takarae Y, Minshew NJ, **Luna B**, Sweeney J. Functional MRI investigation of visual motion perception in autism. Poster session presented at: The Society for Neuroscience 37<sup>th</sup> Annual Meeting; 2007 Nov; San Diego, CA.
61. Liu R, Sweeney JA, Minshew NJ, Geier CF, Garver KA, **Luna B**. Developmental improvements in brain function supporting response inhibition from adolescence to adulthood in autism. Poster session presented at: The Society for Neuroscience 37<sup>th</sup> Annual Meeting; 2007 Nov; San Diego, CA.
62. Geier CF, Teslovich T, Thatcher D, Clark D, **Luna B**. The effects of reward contingency on response inhibition in adolescents and adults: A fast, event-related fMRI study. Poster session presented at: The Society for Neuroscience 37<sup>th</sup> Annual Meeting; 2007 Nov; San Diego, CA.
63. Alahyane N, Brien D, Armstrong I, **Luna B**, Munoz DP. Cognitive and sensorimotor development from early childhood to late adulthood as measured by saccadic eye movement tasks. Slide session presented at: The Society for Neuroscience 37<sup>th</sup> Annual Meeting; 2007 Nov; San Diego, CA.
64. Velanova K, **Luna B**. Sustained and transient controlled processing components engaged during oculomotor task performance show complementary developmental trajectories. Slide session presented at: The Society for Neuroscience 37<sup>th</sup> Annual Meeting; 2007 Nov; San Diego, CA.
65. Asato MR, Terwilliger R, Woo J, Velanova K, **Luna B**. White matter development from childhood to young adulthood and its contributions to cognitive control. Slide session presented at: The Society for Neuroscience 37<sup>th</sup> Annual Meeting; 2007 Nov; San Diego, CA.
66. **Luna B**, Geier C. Brain basis of developmental changes in how reward processing influences cognitive control. Symposia presentation at: The Pharmacology, Biochemistry & Behavior Conference "Impulsivity and Frontal Lobes: Roles in Psychopathology and Addiction"; 2008 Jan; Morzine, France.
67. **Luna B**, Teslovich T, Geier C. Developmental changes in brain function underlying reward processing. Symposia presentation at: The 2008 Biennial Meeting of the Society for Research in Adolescence; 2008 Mar; Chicago, IL.
68. D'Cruz AM, Nowinski CV, Kay M, Seidenfeld A, Rubin LH, Mosconi MW, Scudder C, **Luna B**, Minshew NJ, Sweeney JA. Saccadic adaptation in autism. Poster session presented at: The International Meeting for Autism Research; 2008 May; London, UK.
69. **Luna B**, Geier C, Velanova K, Terwilliger R, Teslovich T, Liu R, Meachim M, Asato M. Immaturities of cognitive control and reward processing in adolescence. Symposia presentation at: The 63<sup>rd</sup> Annual Scientific Convention and Program of the Society of Biological Psychiatry; 2008 May; Washington, DC.
70. Feldman HM, **Luna B**, Yeratman JD. Plasticity and its limits after premature birth. Symposia presentation at: The International Congress for the Study of Child Language 2008 Conference; 2008 July; Edinburgh, Scotland UK.

71. Asato MA, Geier CF, Terwilliger R, Meachim M, Crumrine PK, **Luna B**. The nature of executive dysfunction in children and adolescents with epilepsy: Neuroanatomical correlates. Poster presentation at: The Child Neurology Society 37<sup>th</sup> Annual Meeting; 2008 Nov; Santa Clara, CA.
72. Scherf S, Behrmann M, Minshew N, **Luna B**. Objects and faces: Human perception and expertise. Slide session presented at: The 38<sup>th</sup> Annual Meeting of Society for Neuroscience; 2008 Nov; Washington, D.C.
73. O'Hearn K, Franconeri S, Schroer E, **Luna B**. Autism: Risk factors and neural systems. Slide session presented at: The 38<sup>th</sup> Annual Meeting of Society for Neuroscience; 2008 Nov; Washington, D.C.
74. Asato MR, Willford J, Terwilliger R, Meachim M, **Luna B**. Epilepsy: In vivo and behavior. Poster session presented at: The 38<sup>th</sup> Annual Meeting of Society for Neuroscience; 2008 Nov; Washington, D.C.
75. Andrews JS, Ben-Shachar M, Yeatman D, **Luna B**, Feldman HM. Language and language development III. Poster session presented at: The 38<sup>th</sup> Annual Meeting of Society for Neuroscience; 2008 Nov; Washington, D.C.
76. Asato MR, Terwilliger R, Meachim M, **Luna B**. White matter correlates of disrupted executive function development in pediatric epilepsy. Symposia presentation at: The 62<sup>nd</sup> Annual Meeting of the American Epilepsy Society; 2008 Dec; Seattle, WA.
77. Lee ES, Yeatman JD, **Luna B**, Feldman HM. Verbal working memory and sentence comprehension in preterm children 9-16 years old. In: Proceedings of the Society for Developmental and Behavioral Pediatrics Annual Meeting; 2009; Portland, OR.
78. **Luna B**. Immaturities of the adolescent reward system and its effects on decision making. In Symposium: Frantz K, **Luna B**, Marinelli M, Cain M. The Fountain of Youth: Is Adolescent Plasticity Part of the Story? Panel session at the 42<sup>nd</sup> Annual Winter Conference on Brain Research; 2009 Jan; Copper Mountain, CO.
79. **Luna B**. Brain systems underlying inhibitory control that are still immature in adolescence. In Symposium: Neurodevelopment of Cognitive Systems: Toward a Specification of Risk Trajectories for Child and Adolescent Mental Disorders. Panel session at: The 42<sup>nd</sup> Annual Winter Conference on Brain Research; 2009 Jan; Copper Mountain, CO.
80. **Luna B**. Hamlet's defense: The reckless adolescent brain. Symposia presentation at: The Hamlet and the Adolescent Brain Symposium; 2009 Feb; St. Louis, MO.
81. Hwang K, Velanova K, Terwilliger R, **Luna B**. Developmental changes in causal connectivity of brain regions associated with inhibitory control. Poster presentation at: The 15<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping; 2009 Jun; San Francisco, CA.
82. Padmanabhan A, Geier CF, Terwilliger RA, **Luna B**. Developmental changes in brain function underlying incentive-based cognitive control. Poster presentation at: The 15<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping; 2009 Jun; San Francisco, CA.

83. **Luna B.** The young and the restless: The neurobehavioral state of the adolescent voluntary control system. Symposia presentation at: The Conference on Neurocognitive Development; 2009 July; Berkeley, CA.
84. **Luna B,** Geier C, Padmanabhan A, Hwang K, Asato M. Immaturities in adolescent reward processing. Symposia presentation at: The Multi-modal Neuroimaging Training Program: Symposium on “Decision-Making”; 2009 July; Pittsburgh, PA.
85. O’Hearn K, Wright C, Terwilliger R, Velanova K, Minshew N, **Luna B.** Atypical parietal lobe activation during visuospatial processing in autism. Nanosymposium presentation at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
86. Hwang K, Velanova K, Terwilliger R, **Luna B.** Developmental changes in effective connectivity networks associated with inhibitory control. Poster session presented at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
87. Velanova K, **Luna B,** Wilson T, Kingsley K, Gnagy E, Nawarawong N, Pelham W, Molina B. Immature error-regulatory function in young men with childhood histories of ADHD. Poster session presented at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
88. **Luna B.** Immaturities in the adolescent brain underlying voluntary control. Symposium presented at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
89. Ordaz SJ, Hall M, Terwilliger R, **Luna B.** Developmental differences in arousal reactivity to anxiogenic stimuli. Poster session presented at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
90. Padmanabhan A, Terwilliger R, Geier C, **Luna B.** Developmental changes in brain function underlying reward-based cognitive control. Poster session presented at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
91. Geier C, Terwilliger R, **Luna B.** Persistent immaturities in different states of incentive processing after minimizing motivation Differences in Adolescents and Adults. Poster session presented at: The 40<sup>th</sup> Annual Meeting of the Society for Neuroscience; 2009 Oct; Chicago, IL.
92. O’Hearn K, Franconeri S, **Luna B.** Object individuation in autism. Symposia presentation at: The International Meeting for Autism Research; 2010 May; Philadelphia, PA.
93. Hwang K, Velanova K, Terwilliger R, **Luna B.** Developmental changes in connectivity associated with inhibitory control. In: Proceedings of the 17<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; 2010; Montreal, Canada.
94. Resutko M, Ordaz S, Wright C, Nawarawong N, Fritz B, Jack H, **Luna B.** The effects of cognitive control on IQ. Poster session presented at: The University of Pittsburgh Diversity Poster Session; 2010 May; Pittsburgh, PA.

95. Elumogo C, Ordaz S, Hall M, **Luna B**. Gender differences in autonomic arousal in adolescence. Poster session presented at: The University of Pittsburgh Diversity Poster Session; 2010 Apr; Pittsburgh, PA.
96. Padmanabhan A, Liu R, Nawarawong N, Terwilliger R, Garver KE, Geier CF, Minshew N, Sweeney JA, **Luna B**. Developmental changes in brain function underlying inhibitory control in autism. Poster presentation at: The 16th Annual Meeting of the Organization for Human Brain Mapping; 2010 Jun; Barcelona, Spain.
97. Geier CF, Terwilliger R, **Luna B**. Persistent immaturities in different stages of incentive processing after minimizing motivation differences. Poster session presented at: The WPIC Tenth Annual Research Day; 2010 Jun; Pittsburgh, PA. *Recipient of "Outstanding Poster Presentation"*.
98. Ordaz S, Montez D, Siegle G, **Luna B**. Developmental differences in arousal reactivity to unpredictable stimuli and effects on inhibitory control. NIMH Interdisciplinary Behavioral Science Center Conference on How do Executive Function and Emotion Interact; 2011 Jan; Boulder, CO. *Recipient of notable mention*.
99. **Luna B**. Development of brain systems/neural correlates: Past 20 years, present and future. Symposia presented at the NICHD Workshop on Cognition; 2011 Mar; Washington, DC.
100. **Luna B**, Velanova K, O'Hearn K, Asato M (*presented by Kirsten O'Hearn*). Neural basis of immaturities in cognitive control and reward processing in the teen brain. Symposia presented at the Society for Research in Child Development Biennial Meeting; 2011 Mar; Montreal, Canada.
101. Ordaz SJ, Fritz B, Tarr JA, Dahl RE, **Luna B**. Exploring the relationship between pubertal maturation and inhibitory control. Poster Session Presented at the Society for Research in Child Development Biennial Meeting; 2011 Mar; Montreal, Canada.
102. **Luna B**. Tecnicas de neuroimagenes en desarrollo y maduracion [Neuroimaging techniques in development and maturation] SNC. Symposia presented at: II Simposio Nuevas Tecnologias en Neurologia Infantil; Apr 2011; Bogota, Colombia.
103. **Luna B**. Normal and abnormal development of saccade control and its underlying neural circuitry. Symposia presented at the Neural Control of Movement Annual Meeting; Apr 2011; San Juan, Puerto Rico.
104. O'Hearn K, Simmonds D, Wright C, **Luna B**. Connectivity between frontal and temporal regions in autism. Poster Session Presented at the Society of Biological Society Annual Meeting 2011 May; San Francisco, CA.
105. Milham MP, Mennes M, Gutman D, Buitelaar J, Dickstein D, Fair D, Kennedy D, **Luna B**, Mostofsky S, Nigg J, Schweitzer J, Velanova K, Zang YF, Castellanos FX. Discovery science in ADHD – 200 sample reveals dysfunction in sensory and motor cortices. Poster Session Presented at the Society of Biological Society Annual Meeting 2011 May; San Francisco, CA.

106. **Luna B.** Neuroimaging evidence of adolescent immaturities in cognitive control and reward processing. Symposium presented at the Society of Biological Psychiatry Annual Meeting; 2011 May; San Francisco, CA.
107. Fair DA, Bathula D, Nigg JT, Mills KL, Iyer S, Dias TGC, Dosenbach NUF, Petersen SE, Schlaggar BL, Mennes M, Gutman D, Bangaru S, Kelly C, DiMartino A, Buitelaar J, Dickstein DP, Kennedy D, **Luna B**, Mostofsky S, Schweitzer JB, Velanova K, Wang Y, Castellanos FX, Milham MP. Characterizing functional maturation of individuals with ADHD using rs-fcMRI. Poster Session presented at the Organization for Human Brain Mapping meeting; 2011 Jun; Quebec City, Canada
108. Hallquist MN, Geier CF, **Luna B**. Functional brain networks underlying reward processing and inhibitory control in adolescence and adulthood. Poster Session presented at the Organization for Human Brain Mapping conference; 2011 Jun; Quebec City, Canada.
109. Simmonds D, Montez D, Hallquist M, **Luna B**. Longitudinal development of white matter and influence of puberty, sex and cognitive factors. Poster Session presented at the Organization for Human Brain Mapping conference; 2011 Jun; Quebec City, Canada.
110. Mennes M, Gutman D, Kelly C, Bangaru S, Zuo X, Zang Y, Wang Y, Velanova K, Schweitzer JB, Nigg J, Mostofsky S, **Luna B**, Kennedy D, Fair D, Dickstein D, Buitelaar JK, Castellanos FX, Milham MP. Functional connectomics in ADHD, insights from the ADHD-200 sample. Poster Session presented at the Organization for Human Brain Mapping conference; 2011 Jun; Quebec City, Canada.
111. Simmonds DJ, D Montez, M Hallquist, **B Luna**. Longitudinal development of white matter and influence of puberty, sex and cognitive factors. Poster Session presented at the Organization of Human Brain Mapping conference; 2011 Jun; Quebec City, Canada.
112. Espinoza-Varas B, Jang H, Lack CW, **Luna B**. Inhibitory control for conflicting spoken-word information in adolescents and adults a low risk for alcohol use disorder (AUD). Poster Session presented at the Research Society on Alcoholism Annual Meeting; Jun 2011; Atlanta, GA.
113. Simmonds DJ, **B Luna**. Longitudinal development of white matter: Timing of maturation and effects of sex and behavior. Poster Session Presentation at the 2011 Society for Neuroscience Annual Meeting; 2011 Nov; Washington, DC.
114. Mills KL, Bathula D, Costa Dias TG, Fenesy MC, Musser ED, Stevens CA, Thurlow BL, Carpenter D, Buitelaar J, Castellanos FX, Dickstein DP, Kennedy D, **Luna B**, Milham MP, Mostofsky S, Schweitzer JB, Velanova K, Wang YF, Zang YP, Nagel BJ, Nigg JT, Fair DA. Altered cortico-striatal-thalamic connectivity in relation to spatial working memory capacity in children with ADHD. Poster Session Presented at the 2011 Society for Neuroscience Annual Meeting; 2011 Nov; Washington, DC.
115. Hallquist MN, Geier CF, **Luna B**. Development of functional brain networks supporting reward processing and inhibitory control. Poster Session Presented at the 2011 Society for Neuroscience Annual Meeting; 2011 Nov; Washington, DC.
116. Bowman EA, Abel LA, Bartholomeusz C, Terwilliger R, Nelson B, Pantelis C, **Luna B**, Velanova K, McGorry PD, Woods SJ. Longitudinal changes in antisaccade-related



cortical activity in young people at ultra-high risk of psychotic illness. Poster Session Presented at the 2011 Society for Neuroscience Annual Meeting; 2011 Nov; Washington, DC.

117. Hwang K, Ghuman A, **Luna B.** Spatiotemporal brain dynamics of inhibitory control. Poster Session Presented at the 2011 Society for Neuroscience Annual Meeting; 2011 Nov; Washington, DC.
118. Padmanabhan A, Hwang K, Montez D, **Luna B.** Influence of COMT val158met on resting state functional connectivity over adolescence. Poster Session presented at the American College of Neuropsychopharmacology 50<sup>th</sup> Annual Meeting; 2011 Dec; Waikoloa, HI.
119. Di Martino S, Castellanos F, Anderson J, Alaerts K, Assaf M, Behrmann M, Deen B, Fair D, Gallagher L, Lainhart J, Lord C, **Luna B.** Minshew N, Monk C, Müller R-A, Nigg J, O'Hearn K, Pelphrey K, Peltier S, Sunaert S, Verhoeven J, Wenderoth N, Wiggins J, Milham M, Mostofsky S. The Autism Brain Imaging Data Exchange (ABIDE) consortium: Open sharing of autism resting state fMRI. Poster Session presented at the Organization of Human Brain Mapping Annual Meeting; 2012 July; Beijing, China.
120. **Luna B.** The maturation of top-down frontal cognitive control through adolescence. Symposia presentation at: The 18<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping; "Assessing Network (dys-) Function in Development, At-Risk States and Psychiatric Disorders"; 2012 June; Beijing, China.
121. Hwang K, Ghuman A.S, **Luna B.** Neural synchronization of cortical networks associated with inhibitory control in adolescents and adults. Symposia presentation at: The 18<sup>th</sup> International Conference on Biomagnetism; Aug 2012; Paris, France.
122. Hallquist M. N, Hwang K, **Luna B.** The nuisance of nuisance regression: Spectral misspecification obscures functional connectivity estimates. Talk presented at: The 3<sup>rd</sup> biennial Conference on Resting State Brain Connectivity; Sep 2012; Magdeburg, Germany.
123. Ordaz S.J, Foran W, Velanova K, **Luna B.** Characterizing longitudinal growth curves of brain systems supporting the development of inhibitory control. Nanosymposium presented at Society for Neuroscience Annual Meeting; Nov 2012; New Orleans, LA.
124. Padmanabhan A, Hwang K, **Luna B.** Variability in dopamine genes influence striatal volume and resting state functional connectivity over development. Nanosymposium presented at Society for Neuroscience Annual Meeting; Nov 2012; New Orleans, LA.
125. Simmonds D, **Luna B.** The neural correlates of working memory performance in 12 year-old children. Poster presented at Society for Neuroscience Annual Meeting; Nov 2012; New Orleans, LA.
126. Velanova K, Molina B, **Luna B.** Activation during task initiation cue presentation in adolescents in with and without ADHD. Poster presented at Society for Neuroscience Annual Meeting; Nov 2012; New Orleans, LA.
127. Chahal R, Foran W, **Luna B.** Incentive influence on cognitive control in development. Poster presented at the WPIC 13<sup>th</sup> Annual Research Day; 2013 June; Pittsburgh, PA.

128. Fedor J, Lynn A, **Luna B**, O'Hearn K. Development of neural activation during face and car processing in ASD. Poster presented at the WPIC 13<sup>th</sup> Annual Research Day; 2013 June; Pittsburgh, PA.
129. Larsen B, **Luna B**. Predicting chronological age from patterns of Time-averaged MRI activation in adolescents and young adults. Poster presented at the WPIC 13<sup>th</sup> Annual Research Day; 2013 June; Pittsburgh, PA.
130. Lynn A, **Luna B**, Foran W, Simmonds D, Padmanabhan A, Hallquist M, O'Hearn K. Atypical functional connectivity and development during face processing in autism. Poster presented at the WPIC 13<sup>th</sup> Annual Research Day; 2013 Jun; Pittsburgh, PA.
131. Paulsen D, Geier C, **Luna B**. Developmental changes in incentive processing during inhibitory control: A longitudinal fMRI study. Poster presented at the WPIC 13<sup>th</sup> Annual Research Day; 2013 June; Pittsburgh, PA.
132. Simmonds D, Polizzotto N, Cho R, **Luna B**. Association of DLPFC BOLD activity and gamma oscillations during working memory in early adolescence. Poster presented at the WPIC 13<sup>th</sup> Annual Research Day; 2013 June; Pittsburgh, PA.
133. Larsen B, & **Luna B**. Predicting chronological age from patterns of time-averaged fMRI activation in adolescents. Poster presented at Annual Meeting of the Organization for Human Brain Mapping; June 2013; Seattle, WA.
134. Hwang K, Ghuman AS, **Luna B**. Spatiotemporal brain dynamics of inhibitory control in adolescents and young adults. Poster presented at Annual Meeting of the Organization for Human Brain Mapping; June 2013; Seattle WA.
135. Paulsen DJ, Geier CF, & **Luna B**. Developmental changes in incentive processing during inhibitory control: A longitudinal fMRI study. Poster presented at Annual Meeting of the Organization for Human Brain Mapping; June 2013; Seattle, WA.
136. Hallquist M, Hwang K, **Luna B**. Effects of head motion on resting-state connectivity are exacerbated by a common preprocessing error. Poster presented at Annual Meeting of the Organization for Human Brain Mapping; June 2013; Seattle, WA.
137. Simmonds D, Polizzotto N, Cho R, **Luna B**. Association of DLPFC BOLD activity and gamma oscillations during working memory in early adolescence. Poster presented at Annual Meeting of the Organization for Human Brain Mapping; June 2013; Seattle WA.
138. **Luna B**. Maturation of cognitive control through adolescence. Talk presented at the Flux Congress; 2013 September; Pittsburgh, PA.
139. Lynn A, **Luna B**, Foran W, Simmonds D, Padmanabhan A, Hallquist M, O'Hearn K. Atypical development of functional connectivity during face processing in autism. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
140. O'Hearn K, Lynn A, Fedor J, Foran W, Padmanabhan A, **Luna B**. Maturation of the neural substrates underlying face recognition typically and in autism. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.

141. Hallquist M. N, Hwang K, **Luna B**. The nuisance of nuisance regression: Spectral misspecification in common approach to resting-state fMRI preprocessing reintroduces noise and obscures functional connectivity. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
142. Padmanabhan A, Hwang K, **Luna B**. Influence of variability in dopamine availability on resting state functional connectivity over adolescence. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
143. Hwang K, Ghuman A, **Luna B**. Age-related increases in preparatory frontal alpha and beta band neural oscillations support developmental improvements in inhibitory control from adolescence to adulthood. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
144. Simmonds D, Polizzotto N, Cho R, **Luna B**. Association of DLPFC BOLD activity and gamma oscillation during working memory in early adolescence. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
145. Paulsen D, **Luna B**, Geier C. Developmental changes in incentive processing during inhibitory control: A longitudinal fMRI study. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
146. Ordaz S, Foran W, Hwang K, Padmanabhan A, **Luna B**. Developmental changes in brain functional supporting emotionally modulated cognitive control. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
147. Larsen B, **Luna B**. Evidence for neurophysiological change in the adolescent stratum revealed using multivariate pattern analysis of time-averaged fMRI activation. Poster presented at the Flux Congress; 2013 September; Pittsburgh, PA.
148. **Luna B**. Impact of diabetes/obesity on cognitive function in the developing brain: Normative white matter development. Talk presented at American Psychosomatic Society: Diabetes, Obesity and the Brain; 2013 October; Washington DC.
149. **Luna B**. Brain processes underlying the development of cognitive control through adolescence. Talk presented at the Pontificia Universidad Católica de Chile; 2014 January; Santiago, Chile.
150. **Luna B**. Digging deeper into adolescent risk-taking: Individual and contextual factors. Talk presented at the Society for Research on Adolescence 15<sup>th</sup> Biennial Meeting. 2014 March; Austin, TX.
151. Marek S, Foran W, Hwang K, **Luna B**. Inter-modular connectivity of functional brain networks strengthens over development. Poster presented at the Organization for Human Brain Mapping 2014 Annual Meeting. 2014 June; Hamburg, Germany.
152. Ordaz S, Hackman D, Rosenblum S, Gianaros P, **Luna B**. Sex differences in relation between socioeconomic status and longitudinal trajectories of brain function. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.

153. Perlman S, Jones B, **Luna B**, Huppert T. Brain development of irritability: A fNIRS study of executive function in preschool children. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.
154. Marek S, Hwang K, Foran W, **Luna B**. Developmental integration patterns of functional brain networks. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.
155. Hallquist M, Frank M, Dombrovski A, Paulsen D, Kim T, **Luna B**. The effect of emotional cues on uncertainty-driven exploration in adolescents and young adults. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.
156. Geier C, Lydon D, Lo L, Roberts N, **Luna B**. The influence of incentives on cognitive control during adolescence. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.
157. Simmonds D, **Luna B**. Protracted development of brain systems underlying working memory into early adulthood: A longitudinal fMRI study. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.
158. Larsen B, **Luna B**. The development of cortico-ventral striatal resting-state functional connectivity over adolescence. Poster presented at the 2<sup>nd</sup> Annual Flux Congress. 2014 September; Hollywood, CA.
159. Marek S, Hwang K, Foran W, **Luna B**. Dynamic developmental patterns of integration in human functional brain networks. Poster presented at Society for Neuroscience Annual Meeting; 2014 November; Washington DC.
160. Larsen B, **Luna B**. The development of ventral striatal resting-state functional connectivity over adolescence. Poster presented at Society for Neuroscience Annual Meeting; 2014 November; Washington DC.
161. Simmonds D, **Luna B**. Protracted development of brain systems underlying working memory into early adulthood: A longitudinal fMRI study. Nanosymposium presented at Society for Neuroscience Annual Meeting; 2014 November; Washington DC.
162. Larsen B, Verstynen T, Yeh F-C, Jarbo K, **Luna B**, (June 2015). The development of corticostriatal structural connectivity patterns during adolescence. Annual Meeting of the Organization for Human Brain Mapping, Honolulu, HI.
163. Marek SA, Hwang K, Ghuman A, **Luna B**. (June 2015). Developmental increases in phase synchrony between human functional brain networks. Organization of Human Brain Mapping, Honolulu, HI.
164. Montez D, Simmonds D, **Luna B**. (June 2015) Developmental reduction in maintenance-related variability supports improvements in working memory. Organization for Human Brain Mapping, Honolulu, HI.
165. Kohli D, O'Hearn K, Lynn A, **Luna B**. (June 2015) Neural substrates underlying face processing in Autism Spectrum Disorders. Poster presented at: Fifteenth Annual Department of Psychiatry Research Day; Pittsburgh, PA.

166. Fedor J, Lynn A, Foran W, DiCicco-Bloom J, **Luna B**, O'Hearn K. Patterns of fixation during face recognition: Differences in autism across age. Poster presented at: Fifteenth Annual Department of Psychiatry Research Day; 2015 Jun 18; Pittsburgh, PA.
167. Larsen B, Verstynen T, Yeh F-C, **Luna, B.** (September 2015). The development of convergent corticostriatal structural connectivity during adolescence. Annual Meeting of the Flux Congress, Leiden, Netherlands.
168. Marek SA, Hwang K, Ghuman A, **Luna B.** (September 2015). Developmental changes in phase synchrony between human functional brain networks. Flux Congress, Leiden, NL.
169. Montez D, Simmonds D, **Luna B.** (September 2015) Reduction of neural variability within cognitive and action systems supports developmental improvements in working memory performance. Flux: The International Society for Integrative Developmental Cognitive Neuroscience, Leiden, NL.
170. Tervo-Clemmens B, Simmonds D, **Luna B.** (September 2015) The effects of adolescent cannabis use on adult working memory. Flux: The International Society for Integrative Developmental Cognitive Neuroscience, Leiden, NL.
171. O'Hearn K, Fedor J, Kohli D, Larsen B, Lynn A, **Luna B.** (October 2015) The neural underpinnings of social information processing during adolescence. Ohio Valley Regional Chapter of the Society for Adolescent Health and Medicine (OVSAHM) Pittsburgh, PA.
172. Tervo-Clemmens B, Simmonds D, **Luna B.** (October 2015) Cannabis use and adolescent neurocognitive development: A prospective fMRI study. Society for Neuroscience, Chicago, IL.
173. Montez D, Simmonds D, **Luna B.** (October 2015) Reliability in engagement of maintenance and retrieval brain activation states underlies longitudinal improvements in working memory. Society for Neuroscience, Chicago, IL.
174. Montez D, Simmonds D, **Luna B.** (November 2015) Reliability in engagement of maintenance and retrieval brain activation states underlies longitudinal improvements in working memory. Magnetic Resonance Imaging Retreat, Pittsburgh PA.
175. Fedor J, Larsen B, Lynn A, Foran W, Kohli D, **Luna B**, O'Hearn K. Age-related changes in the neural substrates underlying face processing in autism. Poster presented at: Pittsburgh Imaging Community Retreat; 2015 Nov 5; Pittsburgh, PA.
176. Larsen B, Verstynen T, Yeh, F-C, **Luna, B.** (November 2015). The development of convergent corticostriatal structural connectivity during adolescence. Magnetic Resonance Imaging Retreat, Pittsburgh, PA. *Best student poster award.*
177. Rodu J, Klein N, Simmonds D, **Luna B**, Kass R. (February 2016) Assessing dynamic connectivity from high-dimensional recordings. Poster presented at: Computational and Systems Neuroscience (Cosyne), Salt Lake City, UT.

178. Calabro FJ, Murty VP, **Luna B** (2016). Development of hippocampal-prefrontal cortex interactions through adolescence. Poster presented at: Fourth Annual Flux Conference, St Louis, MO.
179. Murty VP, Montez D, Foran W, **Luna B** (2016). Context-dependent neurodevelopment of mesolimbic network connectivity in adolescence. Poster presented at: Fourth Annual Flux Conference, St Louis, MO.
180. Marek S, Klein N, Tervo-Clemmens B, Foran W, Ghuman A, **Luna B**. (2016) Developmental increases in cortical resting-state variability. Poster presented at: Fourth Annual Flux Conference, St Louis, MO.
181. Montez D, Calabro FJ, **Luna B**. (2016) Gain stabilization of cognitive brain states underlies working memory development. Poster presented at: Fourth Annual Flux Conference, St Louis, MO.
182. Tervo-Clemmens B, Calabro FJ, **Luna B**. (2016) Cannabis use and adolescent neurocognitive development: A prospective fMRI study. Poster presented at: Fourth Annual Flux Conference, St Louis, MO.
183. Larsen B, Olafsson V, Minhas D, Calabro FJ, Price J, **Luna B**. (2016) Tissue-iron as non-invasive of striatal dopamine system neuroanatomy during adolescence. Poster presented at: Fourth Annual Flux Conference, St Louis, MO.
184. Jalbrzikowski M, Larsen B, Foran W, Calabro FJ, **Luna B**. (2016) The development of white matter microstructure and intrinsic functional connectivity between the amygdale and ventromedial prefrontal cortex. Poster presented at: University of Pittsburgh Brain Institute, Brain Day, Pittsburgh, PA.
185. Pongibove M, Calabro F, **Luna B**. Temporal learning dynamics of age-related reward processing. Poster presented at the Dietrich School of Arts and Sciences Undergraduate Research Day; 2017 March; Pittsburgh, PA.
186. Magosin K, Montez D, **Luna B**. Effects of task complexity on the behavioral performance of oculomotor tasks during adolescence. Poster presented at the Dietrich School of Arts and Sciences Undergraduate Research Fair; 2017 March; Pittsburgh, PA.
187. Lazzaro S, Larsen B, **Luna B**. Developmental switch cost in task-switching paradigm. Poster presented at the Dietrich School of Arts & Sciences Undergraduate Research Fair; March 2017; Pittsburgh, PA.
188. Klein N, Marek S, Simmonds D, Ventura V, Kass R, **Luna B**. Development of oscillatory neural dynamics supporting working memory. Poster presented at the Carnegie Mellon Statistics 50th Anniversary Student Poster Session; April 2017; Pittsburgh, PA.
189. **Luna B**, Murty V, Calabro F. (2017) Prefrontal-hippocampal resting state connectivity increases through adolescence in parallel with development of forward planning. Society for Research in Child Development, April 6-8<sup>th</sup>, 2017: Austin Texas.

190. **Luna B**, Montez D, Calabro F. (2017) Stabilization of cognitive brain states underlies working memory development. Society for Research in Child Development, April 6-8<sup>th</sup>, 2017: Austin Texas.
191. Larsen B, Calabro FJ, Murty V, Foran W, **Luna B**. Greater learning-dependent change in hippocampal circuitry relates to reward learning in adolescence. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
192. Marek S, Montez D, Tervo-Clemmens B, Larsen B, Foran W, Calabro FJ, **Luna B**. Frontal theta band oscillations support the development of cognitive control maintenance and flexibility. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
193. Tervo-Clemmens B, Calabro FJ, **Luna B**. Early cannabis use and neurocognitive risk: A prospective cohort fMRI study. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
194. Montez D, **Luna B**. Developmental improvements in mean behavioral performance and behavioral variability are related to stabilizing gain signals. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
195. Quach A, Tervo-Clemmens B, Chung T, **Luna B**, Clark DB. Neurocognitive development of response inhibition and risk for substance use. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
196. McKinney R, DuBrow S, Jalbrzikowski M, Haas G, **Luna B**, Murty V. Verbal episodic memory deficits in first-episode psychosis. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
197. Murty V, Shah H, Calabro FJ, Montez D, Foran W, **Luna B**. Context-dependent trajectory of mesolimbic network connectivity throughout adolescent neurodevelopment. Poster presented at: 17th Annual Department of Psychiatry Research Day; June 2017; Pittsburgh, PA.
198. Eloy L, Klein N, **Luna B**, Kass RE. Characterizing trial-to-trial variability in MEG data. Poster presented at uPNC Summer Intern Poster Session; August 2017; Pittsburgh PA.
199. Larsen B, Calabro F, Murty V, Foran W, **Luna B**. Greater learning-dependent change in hippocampal systems relates to reward learning. Poster presented at the Flux Congress. September 2017; Portland, OR.
200. Calabro F, Murty V, Larsen B, **Luna B**. Development of reward learning behavior and striatal activation through adolescence. Poster presented at the Flux Congress. September 2017; Portland, OR.
201. Montez D, **Luna B**. Developmental stabilization of neural gain signals improves mean behavioral performance and behavioral variability. Talk presented at the Flux Congress. September 2017; Portland, OR.

202. Tervo-Clemmens B, **Luna B**. Neural correlates of latent internalizing and externalizing psychopathology during adolescence. Talk presented at the Flux Congress. September 2017; Portland, OR
203. Manivannan A, Jalbrzikowski M, Murty VP, Foran W, **Luna B**, Sarpal D. Linking working memory activation with duration of untreated psychosis in patients with first-episode psychosis. Poster presented at: University of Pittsburgh Science 2017 conference. October 2017; Pittsburgh, PA.
204. Montez D, **Luna B**. (2017) Developmental stabilization of neural gain signals improves mean behavioral performance and behavioral variability. Poster presented at: University of Pittsburgh Brain Institute, Brain Day, Pittsburgh, PA.
205. Calabro F, **Luna B**. (2017) Dynamic changes in striatal dopamine predict reward learning: evidence from simultaneous PET/MR. Poster presented at: University of Pittsburgh Brain Institute, Brain Day, Pittsburgh, PA.
206. Tervo-Clemmens B, **Luna B**. (2017) Brain-based structure of psychiatric comorbidity. Poster presented at: University of Pittsburgh Brain Institute, Brain Day, Pittsburgh, PA.
207. Calabro FJ, **Luna B**. (2018) Modules of functional development in adolescence. Poster presented at: Big Data. Little Brains. Flux Satellite Conference; May 2018; Chapel Hill, NC.
208. Tervo-Clemmens B, Calabro FJ, **Luna B**. (2018) Development of common patterns of neural risk in psychopathology. Poster presented at: Big Data. Little Brains. Flux Satellite Conference; May 2018; Chapel Hill, NC.
209. Jalbrzikowski M, **Luna B**. (2018) Age-associated functional network organization in psychosis spectrum youth. Poster presented at: Big Data. Little Brains. Flux Satellite Conference; May 2018; Chapel Hill, NC.
210. Quach A, Tervo-Clemmens B, Clark DB, **Luna B**. (2018) Neurodevelopment of inhibitory control and error processing in adolescent substance use risk. Poster presented at: 18th Annual Department of Psychiatry Research Day; June 2018; Pittsburgh, PA.
211. Ravindranath O, Ordaz S, Padmanabhan A, Calabro FJ, **Luna B**. (2018) Age-related changes in the effects of emotional context on cognitive control. Poster presented at: 18th Annual Department of Psychiatry Research Day; June 2018; Pittsburgh, PA.
212. Larsen B, Olafsson V, Calabro FJ, Laymon C, Price J, **Luna B**. (2018) Tissue-iron as a non-invasive indicator of striatal dopamine system neurobiology. Poster presented at: 18th Annual Department of Psychiatry Research Day; June 2018; Pittsburgh, PA.
213. Tervo-Clemmens B, Larsen B, Calabro FJ, Montez D, **Luna B**. (2018) PET Measures of striatal dopamine predict impulsivity. Poster presented at: 18th Annual Department of Psychiatry Research Day; June 2018; Pittsburgh, PA.



214. Montez D, **Luna B.** (2018) Motion's contribution to BOLD signal correlations during rest. Poster presented at: 18th Annual Department of Psychiatry Research Day; June 2018; Pittsburgh, PA.
215. Tervo-Clemmens B, Larsen B, Calabro F, Montez D, **Luna B.** (2018) Spatial patterns of PET measures of striatal dopamine predict self-reported impulsive behavior. Poster presented at: Organization for Human Brain Mapping; June 2018; Singapore.
216. Montez D, **Luna B.** (2018) The short time scale contributions to BOLD signal correlations. Poster presented at: Organization for Human Brain Mapping; June 2018; Singapore.
217. Montez D, **Luna B.** (2018) Motion's contribution to resting state correlations. Poster presented at: 6th Annual Flux Congress; Aug 2018; Berlin, Germany.
218. Ravindranath O, Ordaz S, Padmanabhan A, Calabro F, **Luna B.** (2018) Age-related neural changes in the effects of emotional context on cognitive control. Poster presented at: 6th Annual Flux Congress; Aug 2018; Berlin, Germany.
219. Larsen B, Olafsson V, Calabro F, Laymon C, Price J, **Luna B.** (2018) MRI tissue-iron and PET as indicators of the development of striatal dopamine neurobiology. Poster presented at: 6th Annual Flux Congress; Aug 2018; Berlin, Germany.
220. Tervo-Clemmens B, Calabro F, **Luna B.** (2018) Striatal hyper-activation underlies adolescent substance use risk: A functional neuroimaging meta-analysis. Poster presented at: Brain Day, University of Pittsburgh Brain Institute, Brain Day; October 2018; Pittsburgh, PA.
221. Parr, A., Calabro, F., Tervo-Clemmens, B., Foran, W., & **Luna, B.** (2019, May). Striatal dopamine contributions to the development of frontostriatal connectivity in a reward learning context. Poster session presented at the 2019 Postdoc Data & Dine symposium at the University of Pittsburgh. May, 2019. Pittsburgh, PA, U.S.A.
222. Parr, A., Calabro, F., Tervo-Clemmens, B., Larsen, B., Foran, W., **Luna, B.** (2019, June). Effect of dopamine on developmental changes in frontostriatal circuitry in a reward learning context. Poster session presented at the 2019 Organization for Human Brain Mapping conference. June, 2019. Rome, Italy.
223. Tarcijonas G, Murty V, Foran W, Haas G, **Luna B,** Sarpal D. (2019) Impairment in Prefrontal Connectivity Supporting Control State is Associated with Cognition in Individuals with First-Episode Psychosis. Poster presented at: University of Pittsburgh Research Day; June 2019; Pittsburgh, PA.
224. Dombrovski AY, **Luna B,** Hallquist M. (2019) Anterior vs. posterior hippocampal contributions to reinforcement learning on a timing task. Poster presented at: the 4<sup>th</sup> Multidisciplinary Conference on Reinforcement Learning and Decision Making, at McGill University; July 2019; Montreal, Quebec, Canada.
225. Calabro FJ, Tervo-Clemmens B, **Luna B.** (2019) Modes of functional development in adolescence. Poster presented at Flux; Aug 2019; New York City, New York.

226. Quach A, Tervo-Clemmens B, Foran W, Calabro FJ, Clark DB, **Luna B.** (2019) Neurocognitive development of inhibitory control and substance use vulnerability. Poster presented at Flux; Aug 2019; New York City, New York.
227. Parr AC, Calabro FJ, Tervo-Clemmens B, Larsen B, Foran W, **Luna B.** (2019) Striatal dopamine contributions to the development of frontostriatal connectivity in reward learning task. Poster presented at Flux; Aug 2019; New York City, New York.
228. Perica M, Calabro FJ, Ravindranath O, Foran W, Yushmanov V, Hetherington H, **Luna B.** (2019) Changes in GABA and Glutamate associated with age-related Improvements in working memory ability through adolescence. Poster presented at Flux; Aug 2019; New York City, New York.
229. Ravindranath O, Calabro FJ, Perica M, Foran W, Hetherington H, Yushmanov V, **Luna B.** (2019) Associations between the development of GABA and glutamate and emotion processing through adolescence. Poster presented at Flux; Aug 2019; New York City, New York.
230. Tervo-Clemmens B, Calabro CJ, **Luna B.** (2019) Maturation of Domain-General Neurocognitive Processes. Poster presented at Flux; Aug 2019; New York City, New York.
231. Jalbrzikowski M, Klei L, Foran W, **Luna B.**, Devlin B. (2019) Schizophrenia Polygenic Risk is Associated with Brain Maturation in Typically Developing Youth. Poster and oral presentation presented at 2019 World Congress of Psychiatric Genetics; October 2019; Anaheim, CA.
232. Montez D, Calabro FJ, Newbold D, Van A, **Luna B.**, Dosenbach N. (2020) Improved estimates of BOLD correlation structure through simultaneous spatiotemporal denoising. Poster Organization for Human Brain Mapping (OHBM); June 2020; Virtual Conference.
233. Parr A, Calabro FJ, Larsen B, Olafsson V, **Luna B.** (2020) Striatal dopamine function contributes to the effect of incentives on adolescent inhibitory control. Poster Organization for Human Brain Mapping (OHBM); June 2020; Virtual Conference.
234. Cieslak M, Cook P, Dhollander T, Yeh F, Garyfallidis E, Elliott M, Sydnor V, Tooley U, Bourque J, He X, Foran W, Cabral L, **Luna B.**, Pines A, Roalf D, Mackey A, Detre J, Kelz M, Vettel J, Giesbrecht B, Oathes D, Bassett D, Grafton S, Satterthwaite T. QSIPrep: A robust and unified workflow for preprocessing and reconstructing diffusion MRI. Poster Organization for Human Brain Mapping (OHBM); June 2020; Virtual Conference.
235. Perica M, et al. **Luna B.** (2020) Association between changes in GABA and Glutamate through adolescence and age-related change in brain activity underlying working memory. Poster Flux Congress; Sept 2020; Virtual Conference.
236. Parr A, Calabro F, Foran W. **Luna B.** (2020) Developmental changes in dopamine function support the enhancing effects of incentives on adolescent inhibitory control. Poster Flux Congress; Sept 2020; Virtual Conference.

237. Elliott S, Parr A, Dowling K, Larsen B, Foran W, Calabro F, **Luna B.** (2020) Developmental Changes in Intracortical Myelination are Associated with Ventral Striatal Dopamine. Poster and oral presentation at 2020 Flux Congress; Sept 2020; Virtual Conference.
238. McKeon S, Calabro S, **Luna B.** (2020). EEG-derived spectral processing and the development of working memory through adolescence. Poster Flux Congress; Sept 2020; Virtual Conference.
239. Ravindranath O, Foran W, Calabro F, **Luna B** (2020) Longitudinal associations between pubertal development and inhibitory control. Poster Flux Congress; Sept 2020; Virtual Conference.
240. McKeon S, Calabro F, **Luna B** (2020) Maturational changes in EEG-derived spectral bursts through adolescence during working memory maintenance. Poster Live MEEG 2020 Conference; Oct 2020; Virtual.
241. Ojha A, Parr A, Foran W, Calabro F, Ladoucer C, **Luna B** (2021) Characterizing puberty-related changes in fronto-striatal resting-state functional connectivity in adolescence. Poster Psychiatry Research Day; June 2021; Virtual.
242. Parr A, Calabro F, Foran W, Fitzgerald D, Klingensmith, Clark D, Ahonen L, **Luna B** (2021) Tissue iron, an indirect marker of striatal dopamine, is associated with delinquency and related personality characteristics in late childhood: Initial findings from the ABCD-Social Development Study. Poster Psychiatry Research Day; June 2021; Virtual.
243. McKeon S, Calabro F, **Luna B** (2021) EEG-Derived Spectral Processing and the development of working memory through adolescence. Poster Psychiatry Research Day; June 2021; Virtual.
244. Ojha A, Parr A, Foran W, Calabro F, Ladoucer C, **Luna B** (2021) Characterizing puberty-related changes in fronto-striatal resting-state functional connectivity in adolescence. Poster Flux Congress; Sept 2021; Virtual Conference.
245. Ravindranath O, Perica M, Calabro F, Foran W, **Luna B** (2021) Hippocampal - prefrontal connectivity prior to COVID-19 pandemic predicts later anxiety in adolescents. Poster Flux Congress; Sept 2021; Virtual Conference.
246. Tervo-Clemmens B, Larsen B, Parr A, Foran W, Calabro F, **Luna B** (2021) fMRI-derived measures of brain tissue iron as an indirect marker of striatal dopamine for neurodevelopmental research. Poster Flux Congress; Sept 2021; Virtual Conference.
247. Perica M, Calabro F, Foran W, Yushmanov V, Hetherington H, **Luna B** (2021) Linking changes in excitatory and inhibitory balance through adolescence with working memory. Poster Flux Congress; Sept 2021; Virtual Conference.
248. Calabro F, Parr A, Foran W, **Luna B** (2021) Development of dopaminergic neurophysiology supports improvements in the use of optimal reward learning strategies through adolescence. Poster Flux Congress; Sept 2021; Virtual Conference.

249. Parr A, Calabro F, Foran W, Fitzgerald D, Klingensmith, Clark D, Ahonen L, **Luna B** (2021) Tissue iron, an indirect marker of striatal dopamine, is associated with delinquency and related personality characteristics in late childhood: Initial findings from the ABCD-Social Development Study. Poster Flux Congress; Sept 2021; Virtual Conference.
250. Cabral L, Foran W, Calabro F, **Luna B** (2021) Illustrating rsfMRI striatal tissue iron measurements as developmentally sensitive, using neonatal data from the Developing Human Connectome Project to examine pre and postnatal age effects. Poster Flux Congress; Sept 2021; Virtual Conference.
251. Parr A, Perica M, Calabro F, Tervo-Clemmens B, Foran W, Yushmanov V, Hetherington H, **Luna B** (2022) Variation in striatal dopamine-related neurophysiology supports age-related changes in glutamate through human adolescence. The Data & Dine Symposium, University of Pittsburgh, May 2022; Pittsburgh, PA.
252. Parr A, Perica M, Calabro F, Tervo-Clemmens B, Foran W, Yushmanov V, Hetherington H, **Luna B** (2022) Variation in striatal dopamine-related neurophysiology supports age-related changes in glutamate through human adolescence. Psychiatry Research Day, University of Pittsburgh, June 2022; Pittsburgh, PA.
253. Sarpal D, Blazer A, Wilson J, Calabro F, Foran W, Kahn C, **Luna B**, Chengappa K (2022) Relationship between plasma clozapine/N-desmethylclozapine and changes in basal forebrain/dorsolateral prefrontal cortex coupling in treatment-resistant schizophrenia. Psychiatry Research Day, University of Pittsburgh, June 2022; Pittsburgh, PA.
254. Elliott S, McKeon S, Foran W, Calabro F, **Luna B** (2022) Contributions of age related changes in intracortical myelination to gamma band activity during working memory. Psychiatry Research Day, University of Pittsburgh, June 2022; Pittsburgh, PA.
255. Ojha A, Parr A, Foran W, Calabro F, **Luna B** (2022) Puberty-related maturation of adolescent fronto-striatal resting-state functional connectivity is implicated in the development of inhibitory control. Psychiatry Research Day, University of Pittsburgh, June 2022; Pittsburgh, PA.
256. McKeon S, Calabro F, Perica M, **Luna B** (2022) Reliability of cortical signal processing is driven by glutamate maturation, and supports working memory development. Poster Flux Congress; Sept 2022; Paris, France.
257. Perica M, Calabro F, Foran W, Yushmanov V, Hetherington H, **Luna B** (2022) Longitudinal changes in Glutamate and GABA balance through adolescence. Poster Flux Congress; Sept 2022; Paris, France.
258. Ravindranath O, Calabro F, Foran W, Zhu J, Shirtcliff E, Constantinidi C, **Luna B** (2022) Hormonal Development in Rhesus Macaques Can Inform Human Models of Pubertal Effects on Neurocognitive Development. Poster Flux Congress; Sept 2022; Paris, France.
259. Parr A, Perica M, Calabro F, Tervo-Clemmens B, Foran W, Yushmanov V, Hetherington H, **Luna B** (2022) Variation in striatal dopamine-related neurophysiology supports age-

related changes in glutamate through human adolescence. Poster Flux Congress; Sept 2022; Paris, France.

260. Calabro F, Tervo-Clemmens B, Brown V, Murty V, **Luna B** (2022) Development of Hippocampal-vmPFC functional connectivity at 7T is associated with increased use of model-based learning strategies. Poster Flux Congress; Sept 2022; Paris, France.
261. Cabral L, Calabro F, Rasmussen J, Foran W, Panigrahy A, **Luna B** (2022) Probing striatal tissue iron as a sensitive index of brain maturation and function in infancy. Poster Flux Congress; Sept 2022; Paris, France.
262. Elliott S, McKeon S, Foran W, Calabro F, **Luna B** (2022) Contributions of age related changes in intracortical myelination to gamma band activity during working memory. Poster Flux Congress; Sept 2022; Paris, France.
263. Ojha A, Calabro F, Foran W, Perica M, **Luna B** (2022) Characterizing fronto-amygdala circuitry development during adolescence: implications for internalizing symptoms. Poster Flux Congress; Sept 2022; Paris, France.
264. McKeon S, Calabro F, Perica M, **Luna B** (2022) Reliability of cortical signal processing is driven by glutamate maturation, and supports working memory development. Poster The Society for Psychophysiological Research; Oct 2022; Vancouver, British Columbia.

#### **MONOGRAPHS, BOOKS, AND BOOK CHAPTERS:**

1. Minshew NJ, **Luna B**, Johnson C. The Cognitive & Neural Basis of Autism: A Disorder of Complex Information Processing and Dysfunction of Neocortical Systems [Review]. Glidden L, editor. In: International Review of Research in Mental Retardation. San Diego, CA: Academic Press; 2000. p. 112-35.
2. **Luna B**, Sweeney JA. Cognitive Development: fMRI Studies [Review]. In: Keshavan MS, Kennedy JL, Murray RM, editors. Neurodevelopment and Schizophrenia. London/New York: Cambridge University Press; 2004. p. 45-68.
3. **Luna B**. The Maturation of Cognitive Control and the Adolescent Brain. In: Aboitiz F, Cosmelli D, editors. From Attention to Goal-Directed Behavior: Neurodynamical, Methodological and Clinical Trends. Heidelberg, Germany: Springer-Verlag; 2009. p. 249-274.
4. **Luna B**. A Maturacao do controlo cognitivo e o cérebro adolescente. In: Fonseca AC, editor. Crianças e Adolescentes. Coimbra: Nova Almedina; 2010. p. 331-370.
5. Takarae Y, **Luna B**, Sweeney JA. Development of Visual Sensorimotor Systems and Their Cognitive Mediation in Autism. In: Handbook of Growth and Growth Monitoring in Health and Disease. Springer Science+Business Media; 2011.
6. **Luna B**, Velanova. Development of Eye Movement Control. In: The editors Liversedge S, Gilchrist I, Everling S. Oxford Handbook of Eye Movements. Oxford University Press, 2011.

7. Hwang K, **Luna B**. The Development of Brain Connectivity Supporting Prefrontal Cortical Functions. In: Stuss DT, Knight RT, editors. Principles of Frontal Lobe Function, 2nd Edition. Oxford University Press 2013.
8. **Luna B**, Padmanabhan A, Geier C. The Adolescent Sensation Seeking Period: Development of Reward Processing and its Effect on Cognitive Control. In Reyna V, Zeyes V, editors. The Neuroscience of Risky Decision Making, 1<sup>st</sup> Edition. American Psychological Association 2014.
9. **Luna, B**. Brain Development. In Committee on Improving the Health, Safety, and Well-Being of Young Adults, Board on Children, Youth, and Families, Institute of Medicine, National Research Council; Bonnie RJ, Stroud C, Breiner H, editors. Investing in the Health and Well-Being of Young Adults. Washington (DC): National Academies Press (US); 2015 Jan 27. PMID: 25855847.
10. **Luna, B.**, Wright, C. Adolescent brain development: Implications to the juvenile criminal justice system. In Heilbrun, K (Ed); DeMatteo, D (Ed); Goldstein, NES (Ed), (2016). APA handbook of psychology and juvenile justice. APA handbooks in psychology series., (pp91-116). Washington, DC, US: American Psychological Association, xxvi, 735 pp.
11. **Luna B**. Neuroimaging and the Adolescent Brain: a period of plasticity for vulnerabilities and opportunities. In: UNICEF Office of Research – Innocenti (2017). The Adolescent Brain: A second window of opportunity, UNICEF Office of Research – Innocenti, Florence.
12. Shah JL, Allen AB, Avenevoli S, Correll CU, Fisher HL, Hickie IB, **Luna B**, Öngür D, and Yung AR A Developmentally Informed Approach to Characterizing, Staging, and Intervening in Youth Mental Health Problems: From the Population to the Clinic (2020) From “Youth Mental Health: A Paradigm for Prevention and Early Intervention,” edited by Peter J. Uhlhaas and Stephen J. Wood. Strüngmann Forum Reports, vol. 28, Julia R. Lupp, series editor. Cambridge, MA: MIT Press. ISBN 978-0-262-04397-7. DOI:<https://doi.org/10.7551/mitpress/13412.003.0014>
13. Davey CG, Keshavan MS, Frangou S, Lee F, **Luna B**, Meyer-Lindenberg A, Sawa A, Uhlhaas PJ, and Wilson Woo T The Development of Brain Circuits during Youth: A Framework for Understanding Emerging Mental Disorders and Early Intervention (2020) From “Youth Mental Health: A Paradigm for Prevention and Early Intervention,” edited by Peter J. Uhlhaas and Stephen J. Wood. Strüngmann Forum Reports, vol. 28, Julia R. Lupp, series editor. Cambridge, MA: MIT Press. ISBN 978-0-262-04397-7. DOI:<https://doi.org/10.7551/mitpress/13412.003.0014>
14. **Luna, B.**, Ravindranath, O., Larsen, B., and Parr A. (In Press). The Brain Basis Underlying the Transition from Adolescent to Adulthood. In O. Houdé & G. Borst (Eds.). The Cambridge Handbook of Cognitive Development (pp. xx-xxx). Cambridge, UK: Cambridge University Press.
15. Ravindranath O, Parr AC., Perica M, Elliott S, **Luna B** (2023) Adolescent neurocognitive development. In: Halpern-Felsher, Bonnie (eds.) Encyclopedia of Child and Adolescent Health, pp. 40-62. Oxford: Elsevier.

## PUBLISHED ABSTRACTS:

1. **Luna B**, Dobson V, Carpenter NA, Bossler J, Bonvalot K. Development of peripheral vision in high-risk infants [Abstract]. *Infant Behav Dev.* 1988;11(special issue):196.
2. Getz L, Dobson V, **Luna B**. Full-term acuity card norms can be used for preterm children 0-3 years of age [Abstract]. *Invest Ophthalmol Vis Sci.* 1991;32(1 Suppl 1):62.
3. **Luna B**, Dobson V. Effects of perinatal asphyxia on development of grating acuity in preterm and full term infants and children [Abstract]. *Invest Ophthalmol Vis Sci.* 1992;33 Suppl:717.
4. **Luna B**, Dobson V, Getz, L. Infants who experience perinatal asphyxia show decreased visual field size in the first three years of life [Abstract]. *Invest Ophthalmol Vis Sci.* 1993;34 Suppl:1420.
5. **Luna B**, Dobson V, Scher MS, Biglan AW. Visual outcome from birth to four years of age in infants with periventricular leukomalacia [Abstract]. *Invest Ophthalmol Vis Sci.* 1995;36 Suppl:868.
6. Sweeney JA, **Luna B**, Berman RA, McCurtain BJ, Voyvodic J, Thulborn KR. Functional MRI studies of reflexive and voluntary saccadic eye movements [Abstract]. *Neuroimage.* 1996;3(1):S420.
7. Sweeney JA, Genovese C, **Luna B**, McCurtain BJ, Thulborn KR. Network function in cortical circuits: Coherence analysis of oculomotor circuitry with fMRI [Abstract]. *Neuroimage.* 1996;3(3):S100.
8. Spencer S, Kisler T, **Luna B**, Krisky C, Harenski K, Sweeney JA, Zeigler MR, Montrose DM, Keshavan MS. A preliminary functional magnetic resonance study of high-risk offspring and schizophrenic parents a 3.0 Tesla [Abstract]. *Biol Psychiat.* 2000;47(8 Suppl 1):S44.
9. Asato MR, Garver K, Geier C, Costello M, **Luna B**. fMRI techniques to assess learning and episodic memory [Abstract]. 2005;46 Suppl 8:36.
10. Macmillan C, Takarae Y, Minshew NJ, **Luna B**, Sweeney JA. Functional MRI study of oculomotor deficits in autism [Abstract]. *Ann Neurol.* 2005;58 Suppl 9:S86.
11. Asato M, Crumrine P, Yasui E, Wilds M, **Luna B**. Neurobiological correlates of cognitive and psychiatric comorbidity in pediatric epilepsy [Abstract]. *Ann Neurol.* 2006;60 Suppl 10:S182.
12. Asato MR, Crumrine PK, Yasui E, **Luna B**. Cognitive correlates of psychiatric comorbidity in pediatric epilepsy [Abstract]. *Epilepsia.* 2006;47 Suppl 4:284-5.
13. Asato M, Terwilliger R, Crumrine PK, Vaisleib A, Meachim M, Teslovich T, Geier C, Yasui E, **Luna B**. Executive function impairment and psychiatric comorbidity in pediatric epilepsy: Neural correlates [Abstract]. *Epilepsia.* 2007 Oct;48 Suppl 6:113.

14. Macmillan C, Takarae Y, **Luna B**, Minshew NJ, Sweeney JA. Behavioral and fMRI analyses of visual motor perception in autism [Abstract]. *Ann Neurol.* 2007;62 Suppl 11:S117.
  15. Bowman E, Abel L, Barholomeusz C, Nelson B, Yung A, Yucel M, Pantelis C, **Luna B**, Velanova K, McGorry P, Wood S. Prefrontal cortical activation in people at ultra-high risk of psychosis: An fMRI study of voluntary eye movements [Abstract]. *Hum Brain Mapp.* 2008; 531.
  16. Osorio J, Vaisleb A, **Luna B**, Asato M. Epilepsy, executive function, and sleep problems in adolescents [Abstract]. *Epilepsia.* 2008;49 Suppl 7:231-2.
  17. Asato M, Geier C, Terwilliger R, Meachim M, Teslovich T, Crumrine P, **Luna B**. The nature of executive dysfunction in children and adolescents with epilepsy: Neuroanatomical correlates [Abstract]. *Ann Neurol.* 2008;64 Suppl 12:S121.
  18. Willford JA, Geier CF, Zeglen MJ, Cyphert NW, Kruk RD, **Luna B**, Day NL. Reward and response inhibition processing differences associated with prenatal alcohol exposure in young adults: A fast, event-related fMRI study [Abstract]. *Alcohol Clin Exp Res.* 2008 Jun;32(6 Suppl 1):231A.
  19. McNamee RL, Dunfee KL, **Luna B**, Clark DB, Eddy WF, Tarter RE. Functional MRI (fMRI) to assess brain activity during an inhibition task in youth at risk for substance use disorders [Abstract]. *Alcohol Clin Exp Res.* 2008 Jun;32(6 Suppl 1):287A.
  20. Asato MR, Terwilliger R, Hermann BP, Crumrine PK, Gaillard WD, Ellsworth K, **Luna B**. The nature of executive dysfunction in children and adolescents with epilepsy: Neuroanatomical correlates [Abstract]. *Ann Neurol.* 2009;66 Suppl 13:S69.
  21. Ordaz S, Hall M, Terwilliger R, **Luna B**. Effects of emotional arousal on inhibitory control in adolescence [Abstract]. *Biol Psychiat.* 2009 April;65(8 Suppl S):52S. Abstract no. 167.
  22. **Luna B**, Geier CF, Fox K, Terwilliger R. Brain system changes underlying the development of working memory through adolescence: Neuroimaging studies [Abstract]. *Schizophrenia Bull.* 2009 Mar;35 Suppl 1:196.
  23. Elumogo C, Ordaz S, Hall T, **Luna B**. Gender differences in autonomic arousal in adolescence [Abstract]. *Biol Psychiat.* 2010 May;67(9 Suppl S):122S. Abstract no. 434.
  24. Coffman BA, Ghuman AS, Haigh SM, PS Marrell, Murphy TK, Ward KL, Jalbrzikowski M, **Luna B**, Salisbury DF. Reduced Sustained Activity during Visual Working Memory Maintenance in First-Episode Psychosis [Abstract] *Biol Psychiat.* 2016 April
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## PROFESSIONAL ACTIVITIES

### TEACHING:

1994	Psychology University of Pittsburgh	<i>Infancy: The First Two Years of Life</i> : Advanced undergraduate psychology course – Full semester
1998 -	Psychology University of Pittsburgh	<i>Seminar in Developmental Psychology (Brain Maturation and Late Cognitive Development)</i> : Advanced graduate psychology course – 3 hour seminar
1998 - Present	Psychology University of Pittsburgh	<i>Brown Bag Series (in Developmental Psychology)</i> : Graduate students – 1 hour seminar
2000	School of Medicine University of Pittsburgh	<i>Research Survival Skills (Preparing an R01)</i> : M.D. and Ph.D. Postdoctoral Fellows – 2 hour seminar
2001- 2008	School of Medicine University of Pittsburgh	<i>Neuroimaging in Psychiatric Illness</i> 3 <sup>rd</sup> year Medical Students – 1 hour lecture
2002	School of Medicine University of Pittsburgh	<i>Research Survival Skills (Family and Work)</i> : M.D. and Ph.D. Postdoctoral Fellows – 2 hour seminar
2004 - Present	Biological Sciences Carnegie Mellon University	<i>Lecture (Magnetic Resonance Imaging in Neuroscience)</i> : Undergraduate and Graduate Students – 1.5 hour lecture
2006	Neurobiology University of Pittsburgh	<i>Proseminar Lecture (Changes in Brain Function Supporting the Maturation of Cognitive Control: Developmental fMRI and Behavioral Studies)</i> : Neuroscience Graduate Students – 3 hour lecture
2006	School of Medicine Neurobiology University of Pittsburgh	<i>Research Survival Skills and Ethics Workshop (Writing Research Articles)</i> : M.D. and Ph.D. Postdoctoral Fellows – 2 hour seminar
2007	School of Medicine University of Pittsburgh, Honors College	<i>Lecture (Functional MRI)</i> : Undergraduate students – 1.5 hour lecture; Biomedicine: Past, Present & Future, MED 2101
2009	Department of Medicine and Neurobiology University of Pittsburgh	<i>Research Survival Skills and Ethics Workshop (Grant Writing)</i> : M.D. and Ph.D. Postdoctoral Fellows – 2 hour seminar
2010	Department of Psychology, University of Pittsburgh	<i>Lecture (Immaturities in Brain Processes Underlying Adolescent Executive Function)</i> : Undergraduate Students – 1.5 hour lecture

2010	University of Pittsburgh, School of Medicine, Honors College	<i>Lecture (What fMRI and DTI Have Told Us About Immaturities in Brain Processes Underlying Adolescent Executive Function):</i> Undergraduate students – 1.5 hour lecture; Biomedicine: Past, Present & Future, MED 2101
2011	University of Pittsburgh, School of Medicine, Honors College	<i>Lecture (What fMRI and DTI have told us about Immaturities in Brain Processes Underlying Adolescent Executive Function):</i> Undergraduate students – 1.5 hour lecture; Biomedicine History
2018	University of Pittsburgh, School of Medicine	<i>Changing Science – Changing Society Course: Graduating Seniors – 30 minute lecture; What’s New in Adolescent Developmental Neuroscience</i>
2019	University of Pittsburgh, School of Medicine	<i>Changing Science – Changing Society Course: Graduating Seniors – 30 minute lecture; What’s New in Adolescent Developmental Neuroscience</i>

**MENTORING:**

Current:

2018-	Maria Perica	Graduate Student, Clinical Psychology
2019-	Shane McKeon	Graduate Student, BioEngineering

Past:

2002-2005	Miya R. Asato, M.D.	Postdoctoral Fellow, Pediatrics/Psychiatry
2003-2008	K. Suzanne Scherf, Ph.D.	Postdoctoral Fellow, Psychiatry
2003-2004	Sara Doll, B.S	NIMH Undergraduate Fellow
2003-2009	Charles Geier, M.S.	Graduate Student, Cognitive Psychology/CNBC
2005-2008	Katerina Velanova, Ph.D.	Postdoc/Ass Prof, Psychiatry
2005 -2012	Miya R. Asato, M.D.	Assistant Professor, Pediatrics/Psychiatry
2006-2009	Kirsten O’Hearn, Ph.D.	Postdoctoral Fellow, Psychology
2006-2007	Andrea Bostan	Graduate Student, Neuroscience/CNBC
2006-2012	Sarah Ordaz	Graduate Student, Clinical Psychology
2006-2011	Jae Woo, M.D	Senior Research Fellow, SOM, 3 <sup>rd</sup> year
2006-2007	Yemisi Olagunju, M.D.	NIMH Fellow, SOM, 3 <sup>rd</sup> year
2008	Krysta Fox	Graduate Student, Neuroscience/CNBC
2008	Andrea Ponting	Graduate Student, Neuroscience/CNBC
2008-2012	Kai Hwang	Graduate Student, Cognitive Psychology/CNBC
2008-2012	Aarthi Padmanabhan	Graduate Student, Cognitive Psychology/CNBC
2008-2009	Ian Bledsoe, M.D.	Research Fellow, SOM, 3 <sup>rd</sup> Year
2008-2012	Katerina Velanova, Ph.D.	Assistant Professor, Psychiatry
2009-2011	Charles Geier, Ph.D.	Postdoctoral Fellow, Psychology/Psychiatry
2009-2015	Kirsten O’Hearn, Ph.D.	Assistant Professor, Psychiatry
2010-2014	Daniel Simmonds, M.D., Ph.D.	Graduate Student, MSTP/Neuroscience
2010-2011	David Montez	Hot Metal Bridge Program, Psychology

2012-2013	David Paulsen, Ph.D.	Postdoctoral Associate, Psychiatry
2012-2013	Kai Hwang, Ph.D.	Graduate Student/Postdoc Associate (Berkeley)
2012-2018	Bart Larsen	Graduate Student/Postdoc Associate (UPenn)
2013-2014	Aarthi Padmanabhan, Ph.D.	Graduate Student/Postdoc Associate (Stanford)
2013-2017	Scott Marek	Graduate Student/Postdoc Associate (WashU St. L)
2014-2018	David Montez	Graduate Student/Postdoc Associate (WashU St. L)
2010-2015	Michael Hallquist, Ph.D.	Assistant Professor, Psychology (Penn State)
2014-2017	Maria Jalbrzikowski, Ph.D.	Postdoctoral Fellow, Psychiatry/Assistant Professor, Psychiatry
2015-2016	Finnegan Calabro, Ph.D.	Research Assistant Professor, Psychiatry
2015-2017	Vishnu Murty, Ph.D.	Assistant Professor, Psychology (Temple)
2015	Grant Magnon	Graduate Student, MSTP
2016	Patricia Stan	Graduate Student, Neuroscience/CNUP
2018	Ana Almeida Rojo	CNUP Predoctoral Fellow, Rotation Student
2019-2021	Laura Cabral, Ph.D.	Postdoctoral Fellow, T32
2014-2022	Brenden Tervo-Clemmens	Graduate Student, Psychology/CNBC, awarded 2019-2020 Mellon Fellowship
2018-2022	Ashley Parr, Ph.D.	Research Instructor, Psychiatry (Pitt)
2019-2023	Sam Elliott	Graduate Student, Cognitive Psychology
2017-2023	Orma Ravindranath	Graduate Student, Clinical Psychology

#### **CO-MENTORING:**

##### Current:

2020-	Amar Ojha	Graduate Student, Neuroscience/CNUP
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##### Past:

2002-2007	Jennifer Wilford	Psychiatry - Prenatal Alcohol Exposure: Cognitive and Brain Function
2002-2007	Rebecca McNamee	Radiology - fMRI Methods Research in Children at Risk for Drug Abuse
2007-2012	Dustin Pardini	Psychiatry - Brain Function, Cognitive and Emotional Processing, and Behavioral Dysregulation
2014-2015	Samuel Hawes, Ph.D.	Postdoc Fellow, Psychiatry/CNBC
2010 - 2017	Susan Perlman, Ph.D.	Psychiatry - Neuroimaging of Mood Disorders in Young Children
2015-2018	Natalie Klein	Graduate Student, CMU Statistics and Machine Learning

#### **University of Pittsburgh *Graduate* Thesis Advisory Board:**

2008-2010	Jessica Porter	Neuroscience
2008-2010	Paul Middlebrooks	Neuroscience
2008-2010	Andrea Ponting	Neuroscience
2009-2010	David Sturman	Neuroscience
2008-2010	Holly Gastgeb	Neuroscience

2010-2011	Emily Merz	Psychology
2011-2014	Courtney Lopresti	Neuroscience – <i>reprint exam</i>
2011-2015	Marvin Leathers	Neuroscience
2013-2015	Daniel Simmonds	Neuroscience, MD PhD
2013-2015	Adrienne Taren	Neuroscience
2013-	Kyle Dunovan	Cognitive Psychology
2013-2015	Travis Alvarez	Cognitive Psychology
2015-2016	Patrick Beukema	Neuroscience
2015-2017	Sarah Lichenstein	Clinical Psychology
2015-2017	Scott Marek	Neuroscience
2015-2016	David Montez	Neuroscience
2015-	Brenden Tervo-Clemmens	Clinical Psychology
2016-	Joshua Tremel	Cognitive Psychology

**University of Pittsburgh *Undergraduate* Honors Thesis Advisory Board:**

2006	Alissa Ferry	Psychology
2006	Jamie Doyle	Psychology
2006	Theresa Teslovich	Psychology
2007	Cecily Becker	Psychology
2010	Tanisha Hill-Jarrett	Psychology/Neuroscience
2010	Lauren Ropelewski	Psychology
2012	Jared Dicicco-Bloom	Psychology
2014	Jennifer Fedor	Psychology/Neuroscience

**RESEARCH:**

1. Grant Number (Funded)	<u>Grant Title</u>	<u>Role in Project</u>	<u>Years Inclusive</u>	<u>Source</u>
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***Current Grant Support:***

U01 AA021690	NCANDA Research Project Site: PITT (PIs – Clark/Luna)	Co-Investigator	2012- 2027	National Institute on Alcohol Abuse and Alcoholism
R01 MH067924	Brain Mechanisms Underlying Plasticity in the Specialization of Cognitive Systems through the Adolescent Period (PI – B. Luna)	Principal Investigator	2017- 2023	National Institute on Mental Health
UH3 OD023349	Pre- and Postnatal Exposure Periods for Child Health: Common Risks	Co-Investigator	2017- 2023	National Institute on Mental Health

and Shared Mechanisms  
(PI – Simhan)

R01 MH116675	Neurophysiology of Working Memory Maturation in Adolescence (PI – Constantinidis)	Co-Investigator	2018-2023	National Institute on Mental Health
U01 DA041028	12/21: ABCD-USA Consortium: Research Project Site at U Pittsburgh (PIs – Clark/Luna)	Principal Investigator	2020-2027	National Institute on Drug Abuse
R01 MH117996	Neurophysiology of Cognitive Development and Response Inhibition (PI – Constantinidis)	Co-Investigator	2021-2023	National Institute on Mental Health
R01 HD096738	Investigating the Role of the Cerebellum in Reading (PI – Fiez)	Co-Investigator	2021-2023	National Institute of Child Health and Human Development
R01 MH124705	A Multidimensional Dissection of Antipsychotic Treatment Response in Early Schizophrenia (PI – Sarpal)	Co-Investigator	2021-2026	National Institutes of Mental Health
R37 MH080243	Adolescent Striatal Neurophysiological Maturation Underlying the Transition to Adult Stabilization of Behavior (PI – Luna)	Principal Investigator	2022-2027	National Institutes of Mental Health

**Prior Grant Support: (Completed)**

K01-MH01727	Brain & Cognitive Maturation: 8-17 Years of Age	Principal Investigator	1999-2004	National Institute of Mental Health
R01 DA018910	Pubertal Maturation & Drug Use Vulnerability (PI – R. Dahl)	Project Co-Investigator	2004-2010	
R01 MH067924	Cognitive and Brain Systems Maturation through Adolescence (PI – B. Luna)	Principal Investigator	2004-2011	

R21 DA021028	Frontal White Matter, Executive Function and Treatment Outcomes in Adolescent AUDs (PI – D. Clark)	Co-Investigator	2005-2008	
K23 NS052234	Neurobehavioral Status in Pediatric Epilepsy (PI – M. Asato)	Sponsor/ Mentor 0%	2005-2010	
NAAR-Autism Speaks. Research Project	Development of perceptual processing in autism (PI – B. Luna)	Principal Investigator	2006-2008	
R21 AA017312	Neurodevelopmental Maturation and Alcohol Use in Adolescents (PI – D. Clark)	Co-Investigator	2007 - 2009	
R01 HD053470	Prenatal Tobacco Effects on Attention: Behavior & Brain Function (PI – J. Willford)	Co-Investigator	2007 - 2010	
1K01 MH082123	The Functional Anatomy of Adolescent ADHD: Defining Markers of Recovery (PI – K. Velanova)	Mentor	2008 – 2013	National Institute on Mental Health
3N01 DA-8-553-09S	Follow Up of the Multimodal Treatment Study of Children with Attention Deficit Hyperactivity Disorder (PI – B. Molina)	Co-Investigator	2008-2012	
R01 MH080243	Reward Processing in Adolescence (PI – B. Luna)	Principal Investigator	2008 – 2020	National Institute on Mental Health
K01 MH081191	Development of Ventral Stream Organization (PI – K. O’Hearn)	Mentor	2009-2014	National Institute on Mental Health

R01 MH067924	Multimodal Neurodevelopmental Studies of Cognitive Control and Arousal (PI – B. Luna)	Principal Investigator	2011-2017	National Institute on Mental Health
R01 MH101096	Neural Correlates of Adult Outcomes of Childhood ADHD: Affect, Reward, and Control (PI – B. Molina; C. Ladouceur)	Co-Investigator	2014-2019	National Institute on Mental Health
U01 DA041028	ABCD-USA Consortium: Research Project (PI – D. Clark)	Co-Investigator (2015-2020), Multiple Principal Investigator (2020)	2015-2020	National Institute on Drug Abuse
R01 MH107540	From Irritability to Impairment: How Neurodevelopment of Executive Function and Parent-Child Neural Synchrony Influence the Transition from Normal to Abnormal Functioning (PI – S. Perlman)	Co-Investigator	2015-2020	National Institute on Mental Health
R03 MH113090	Longitudinal Profiles of Neurocognitive Development through Adolescence (PI – B. Luna)	Principal Investigator	2017-2019	National Institute on Mental Health
R01 MH105538	Intergenerational Effects of Maternal Childhood Trauma on the Fetal Brain (PI – Simhan)	Co-Investigator	2017-2020	National Institute on Mental Health
P50 MH103204	Cortical Cells, Circuits, Connectivity and Cognition in Schizophrenia (Project 5: Alterations of Cortical Connectivity and Cognition in Schizophrenia) (PI – D. Lewis)	Co-Investigator	2014-2020	National Institute on Mental Health
R01 MH080243	Developmental Changes in Striatal Neurophysiology	Principal Investigator	2015-2021	National Institute on Mental Health

through Adolescence (PI –  
B. Luna)

R34 DA050290	2/4: Investigation of Opioid Exposure and Neurodevelopment (iOPEN) (PIs - Panigrahy/Luna/Krans)	Principal Investigator	2019-2021	National Institute on Drug Abuse
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#### **SEMINARS AND INVITED LECTURESHIPS:**

1. 1997, Development of Prefrontal Function in Late Childhood and Adolescence, Invited presentation at: the Developmental Psychology Department, University of Pittsburgh, Pittsburgh, PA.
2. 1997, Development of Neocortical Function in Late Childhood and Adolescence: Preliminary Data and Designs of Behavioral and fMRI Studies using Oculomotor Tasks, Invited presentation at: the Department of Child and Adolescent Psychiatry, Western Psychiatric Institute and Clinic, Pittsburgh, PA.
3. 1998, Cognitive Maturation: fMRI Studies of Voluntary Response Suppression: Maturation and Dysmaturation of Brain Function, Invited presentation at: the Neurodevelopment Institute, University of Pittsburgh, Pittsburgh, PA.
4. 2000, Developmental fMRI Studies and Autism fMRI Studies: Preliminary Data and Designs of Behavioral and fMRI Studies using Oculomotor Tasks, Department of Child and Adolescent Psychiatry, Research Colloquium Presentation, Western Psychiatric Institute and Clinic, Pittsburgh, PA.
5. 2000, How Does Our Ability to Think Mature? fMRI Studies of Cognitive Development, Invited presentation at: the Center for the Neural Basis of Cognition, University of Pittsburgh and Carnegie Mellon University, Pittsburgh, PA.
6. 2000, Maturation of Distributed Networks Subserves Development of Higher-Order Cognition Throughout Adolescence: fMRI Studies of Cognitive Development, Invited presentation at: the Cognitive Psychology Department, University of Pittsburgh, Pittsburgh, PA.
7. 2001, fMRI Studies of Cognitive Development and Autism, Invited presentation at: the Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Waltham, MA.
8. 2001, Maturation of Brain Function: fMRI Studies of Cognitive Development, Invited presentation at: the Massachusetts General Hospital NMR Center, Boston, MA.
9. 2001, Brain Mechanisms Underlying Cognitive Maturation: fMRI Studies of Voluntary Response Suppression (8-30 years of age), Invited presentation at: the Developmental Psychology Department, University of Pittsburgh, Pittsburgh, PA.



10. 2001, What Can Development Tell us about Distributed Brain Function?, Invited external faculty, Department of Neuroscience, annual retreat, University of Pittsburgh, Pittsburgh, PA.
11. 2001, Cognitive and Brain Maturation and Dysmaturation in Autism, Invited lecture at: the WPIC Research Day, Pittsburgh, PA.
12. 2002 Jan, Estudios de Resonancia Funcional en Desarrollo Cognitivo y Maduración Cerebral Durante La Adolescencia [Studies of Functional Magnetic Resonance Imaging in Cognitive Development and Cerebral Maturation During Adolescence], Invited Lecture, Morphology Department, School of Medicine, Universidad de Chile, Santiago, Chile.
13. 2002 Mar, fMRI and Developmental Studies in Psychiatry, Invited Lecture, Psychiatric Epidemiology and Alcohol Research: Research Seminars, Department of Psychiatry, University of Pittsburgh, Pittsburgh, PA.
14. 2002, Maturation of Voluntary Response Suppression throughout Adolescence, Invited Lectureship at the Culpability Meeting of the MacArthur Foundation Research Network on Adolescent Development and Juvenile Justice, St. Louis, MO.
15. 2002 Mar, Maturation and Dysmaturation of Brain Function Supporting Voluntary Control of Behavior, Invited presentation at the Department of Child and Adolescent Psychiatry, Research Colloquium, Western Psychiatric Institute and Clinic, Pittsburgh, PA.
16. 2003 Sept, The Emergence of Collaborative Brain Function: fMRI Studies Investigating the Development of Response Suppression, Invited Lecture, New York Academy of Sciences, New York City, NY.
17. 2003 Sept, Neuroscience of Adolescence, Invited Lecture, Society for Developmental and Behavioral Pediatrics, Pittsburgh, PA.
18. 2004 Mar, Adolescence: The Transition to Mature Brain Processing and Cognitive Control of Behavior, Society for Research on Adolescence, Baltimore, MD.
19. 2004 Dec, Es el Cerebro Adolescente Igual al Adulto? Estudios de la Maduración Cognitiva usando ER-RMf [Is the Adolescent Brain Equal to the Adult? Studies of Cognitive Maturation Using Event-Related fMRI], Universidad Católica de Chile, Santiago, Chile.
20. 2005 Feb, Cognitive and Brain Mechanisms Underlying Adolescent Behavior, Invited presentation at: the MacArthur Foundation Research Network on Adolescent Development and Juvenile Justice, Atlanta, GA.
21. 2005 Aug, Cognitive Control of Behavior and the Immature Adolescent Brain, Invited speaker at the NIDA Supported Symposium, American Psychological Association Annual Meeting, Washington, DC.
22. 2005 Oct, Adolescent Decision Making, Invited Lecture, Forty-Third Annual Briefing: New Horizons in Science, National Meeting of Science Journalists, Pittsburgh, PA.

23. 2005 Oct, Brain and Cognitive Processes Underlying Cognitive Control of Behavior in Adolescence, Invited speaker at: The NIDA Supported Symposium the AACAP/CACAP Joint Annual Meeting, Toronto, Ontario, Canada.
24. 2005 Nov, Adolescent Drug Abuse: Brain Development, Cognition, and Vulnerability, Invited speaker at the NIDA Supported Symposium, American Psychological Association Annual Meeting, Washington, DC.
25. 2006 May, The Immature Adolescent Brain and Cognitive Control, Invited Lecture, NIDA Supported Symposium Adolescent Brain Development: Implications for Psychiatric Treatment, American Psychiatric Association Annual Meeting, Toronto, Ontario.
26. 2006 Oct, The Development of Transient and Sustained Neural Activity during Voluntary Response Inhibition: a Mixed Block/Event-related fMRI Study, Invited Lecture, Thirty-Sixth Annual Meeting, Society for Neuroscience, Atlanta, GA.
27. 2006 Sept, Adolescence: A Vulnerable Period of Brain Development, Invited Speaker, University of Pittsburgh Department of Psychology: Clinical Brown Bags, Pittsburgh, PA.
28. 2007 Feb, Adolescent Brain Development and Cognitive Control of Behavior, Invited speaker at: Duquesne University School Psychology Program Speaker Series, Duquesne University, Pittsburgh, PA.
29. 2007 Mar, Adolescence and the Brain: Neuroimaging Studies of the Development of Cognitive Control, Invited lecture at the Senior Vice Chancellor's Research Seminar, Pittsburgh, PA.
30. 2007 Mar, Developmental Changes in Brain Processes Supporting the Maturation of Cognitive Control: fMRI Studies using Oculomotor Tasks, Guest lecturer at the Centre for Neuroscience Studies Seminar Series, Hosted by Queens University, Kingston, Ontario, Canada.
31. 2007 Mar, The Adolescent Brain, Invited Speaker at: Pitt Honors College, School of Medicine, University of Pittsburgh, Pittsburgh, PA.
32. 2007 Apr, La Adolescencia y el Cerebro: Estudios de Neuroimagen Funcional sobre el Desarrollo del Control Cognitivo [Adolescence and the Brain: Studies in Functional Neuroimaging on the Development of Cognitive Control], Invited speaker, Department of Psychiatry, School of Medicine, Universidad Catolica de Chile, Santiago, Chile.
33. 2007 Jun, Adolescent Brain Mechanisms Reflect a Period of Precarious Voluntary Control of Behavior, Invited Lecture at the Two-day Expert Meeting: Risks and Opportunities in Adolescent Brain Development, Hosted by Leiden University, The Netherlands.
34. 2007 Sept, Brain Processes Underlying the Maturation of Cognitive Control, Invited Speaker, Neuroscience Talk, Hosted by Massachusetts Institute of Technology, The Moore Lab, Boston, MA.
35. 2007 Sept, Brain Development and Decision Making: Maturation Determinants of Morality, Invited Speaker, Neuroscience Talk, Hosted by Massachusetts Institute of Technology, Boston, MA.

36. 2007 Sept, Maduración Cognitiva en la Adolescencia [Cognitive Maturation in Adolescence], Invited speaker, 3ra Reunión Anual de la Sociedad Chilena de Neurociencia en el Simposio “Enfoques funcionales al desarrollo cognitivo y sus desórdenes,” Los Andes, Chile.
37. 2008 Apr, Changes in Brain Processes Underlying the Maturation of Cognitive Control through Adolescence, Invited Seminar Speaker, Penn State Neuroscience Institute, Hosted by the Penn State Child Study Center, University Park, PA.
38. 2008 May, Cognitive & Brain Systems Maturation through Adolescence, NIMH Council Meeting, New Investigators Presentation, Washington, DC.
39. 2008 Sept, Introducción a la Técnica de la Resonancia Magnética Funcional (RMf) [Introduction to the Technique of Functional Magnetic Resonance Imaging (fMRI)], Invited lecturer, 6th Annual Congress of the Spanish Society of Psicofisiología: *Investigation in Psicofisiología y Neurociencia Cognitiva y Afectiva*, Castellón de la Plana.
40. 2008 Sept, Estudios de Neuroimagen Funcional sobre el Desarrollo de los Procesos de Recompensa y el Control Cognitivo [Studies in Functional Neuroimaging on the Development of the Processes of Reward and Cognitive Control], Invited speaker at the 6th Annual Congress of the Spanish Society of Psicofisiología: *Investigation in Psicofisiología and Neurociencia Cognitiva and Afectiva*, Castellón de la Plana.
41. 2009 May, Immaturities of the Adolescent Brain and Voluntary Control, Invited Seminar Speaker, Judicial Seminar on Emerging Issues in Neuroscience, Hosted by the American Association for the Advancement of Science, National Judicial College, National Center for State Courts, and the Dana Foundation, Reno, NV.
42. 2009 May, Methodological Approaches in Oculomotor Studies Assessing Adolescent Immaturities in Voluntary Response Inhibition, Invited Seminar Speaker, Workshop Developmental Neuroimaging, Hosted by Leiden University *The Leiden Brain and Development Lab and The Utrecht Niche Lab*, Amsterdam, Netherlands.
43. 2009 Oct, Maturation of Brain Systems Underlying the Development of Cognitive Control from Childhood to Adulthood, Invited Seminar Speaker, International Meeting of the “Fundación Cerebro y Mente” on “Staging Neuropsychiatric Disorders: Implications for Etiopathogenesis and Treatment”; Mojacar, Spain.
44. 2009 Nov, Immaturities in Brain Processes Underlying Adolescent Executive Function, Meet the PI Lecture, WPIC, Pittsburgh, PA.
45. 2010 Apr, fMRI and DTI Approaches for Characterizing Development in Brain Processes Underlying Executive Function, University of Pittsburgh Honors College Lecture in Functional Imaging, Pittsburgh, PA.
46. 2010 Apr, Immaturities in Voluntary Responses and Incentive Processing in Adolescence: Implications to Juvenile Law, Invited Lecturer, Law & Biology Speaker Series, Hosted by Vanderbilt University Law School, Nashville, TN.

47. 2010 May, Neuroimaging Evidence of Immaturities in Cognitive Control, Reward Processing, and Brain Connectivity During Adolescence, University of Pittsburgh Department of Neurobiology Seminar, Pittsburgh, PA.
48. 2010 July, What fMRI and DTI have Told us about Immaturities in Brain Processes Underlying Adolescent Executive Function, The Multimodal Neuroimaging Training Program CNBC Summer Workshop, Pittsburgh, PA.
49. 2010 Oct, Brain System Immaturities in Adolescent Cognitive Control and Reward Processing, Invited Speaker, University of Cincinnati Colloquium, Cincinnati, OH.
50. 2010 Nov, Neuroimaging Evidence of Immaturities in Brain Processes Underlying Cognitive Development in Adolescence, University of Pittsburgh Translational Neuroscience Program Seminar, Pittsburgh, PA.
51. 2011 Feb, Development of Brain Systems/Neural Correlates: Current state-of-the-science advances in the field 10-20 years, Invited Speaker, Georgia State University Colloquium, Atlanta, GA.
52. 2011 Jun, Maturation of Functional Specificity and Functional Integration in Reward Processing, Invited speaker, Reward and Regulation in Adolescence Colloquium at Brock University, Ontario, Canada.
53. 2011 Jun, Later Development of Cognitive Control: Adolescence. Invited Speaker, Summer Institute in Cognitive Neuroscience at University of California Santa Barbara, Santa Barbara, CA.
54. 2011 Sept, Adolescent Risk Taking: Immaturities in Cognitive Control and Reward Processing, Invited Speaker, The Neuroscience of Risky Decision Making at Cornell University, Ithaca, NY.
55. 2011 Sept, Immaturities in Voluntary Responses and Incentive Processing in Adolescence: Implications to Juvenile Law, Invited Speaker, Developmental Discussion Group (DDG) at Carnegie Mellon University, Pittsburgh, PA.
56. 2011 Oct, Specialization of Brain Processes Supporting Cognitive Control through Adolescence, Colloquium Speaker, University of South Carolina, Columbia, SC.
57. 2011 Oct, Does Brain Development Promote Risk Behavior in Emerging Adulthood—or Not?, Invited Speaker, Society for the Study of Emerging Adulthood (SSEA) and the Society for the Study of Human Development (SSHD), Providence, RI.
58. 2012 March, Maturation of Brain Dynamics Underlying Cognitive Control through Adolescence, Invited Speaker, The Sackler Institutes for Developmental Psychobiology, New York, NY.
59. 2012 April, What Can Brain Studies Tell Us About Adolescent Behavior, Invited Speaker, Tri-Beta, the Biological Sciences Honor Society, University of Pittsburgh, Pittsburgh, PA.

60. 2012, Scientific Advances in Adolescent Brain Development and Implications for Primary Care, Invited Speaker, Conference to Develop a Research Agenda for an Adolescent-Centered Model of Primary Care (National Alliance to Advance Adolescent Health), Washington D.C.
61. 2012 Dec, Maduración Cerebral Funcional: Vulnerabilidades y Oportunidades [Functional Brain Maturation: Vulnerabilities and Opportunities], Invited Speaker, INTA - Instituto de Nutrición y Tecnología de los Alimentos, Santiago, Chile.
62. 2013, Brain Basis of the Development of Cognitive Control Through Adolescence, Invited Speaker, Institute of Cognitive Neuroscience, University College of London, London, UK.
63. 2014, Adolescent Brain Development and its Implications for Primary Care: Vulnerabilities and Opportunities, Invited Speaker, Society for Adolescent Health and Medicine 2014 Gallagher Lecture, Austin, TX.
64. 2014, Age Related Changes in Brain Functional Specificity and Integration Underlying Cognitive Development, Invited Speaker, Developmental Colloquium Series; Washington University, St. Louis, MO.
65. 2014, Functional Specificity and Integration of Brain Processes Underlying Cognitive Development, Invited Speaker, New York University, New York City, NY.
66. 2014, The State of the Adolescent Brain: Implications to Juvenile Law, Invited Speaker, Squandered Resources Symposium, Johns Hopkins Urban Health Institute, Baltimore, MD.
67. 2014, Adolescent Brain Development: Vulnerabilities and Opportunities, Invited Speaker, Director Research Circle, University of Texas Southwestern Medical Center, Dallas, TX.
68. 2014, Brain Dynamics Underlying Cognitive Development through Adolescence, Invited Speaker, Behavioral and Brain Sciences Colloquium, Dallas, TX.
69. 2014, Neurodevelopmental Trajectories of Brain Function and Connectivity as Risk Factors for Internalizing and Externalizing Psychopathology, Invited Speaker, American College of Neuropsychopharmacology (ACNP), 53<sup>rd</sup> Annual Meeting, Phoenix, AZ.
70. 2015, Neuroimaging: Discoveries from Fetus to Adult, Symposium Speaker, The American Association for the Advancement of Science (AAAS), 2015 Annual Meeting, San Jose, CA.
71. 2015, Adolescent Brain Development and Its Implications for Adolescent and Child Health: Vulnerabilities and Opportunities, Invited Speaker, Division of Adolescent and Young Adult Medicine, Pittsburgh, PA.
72. 2015, Vulnerabilities and Opportunities in Adolescent Brain Development: Implications to Adolescent Health, Invited Speaker, Adolescent Health Initiative, 2015 Conference on Adolescent Health, Ypsilanti, Michigan.

73. 2015, Integration of FEF Supporting Development of Cognitive Control, Invited Speaker, Gordon Research Conferences: Eye Movements, Waltham, MA.
74. 2015, Towards Healthy Adolescent Trajectories (THAT), Invited Speaker, ThinkTank, Pittsburgh, PA.
75. 2015, Longitudinal Studies of Cognitive Maturation, Invited Speaker, Flux: The International Society for Integrative Developmental Cognitive Neuroscience, Leiden, NL.
76. 2015, Creating the Brain through Adolescence, Invited Speaker, Thrival Innovation Festival, Pittsburgh, PA.
77. 2015, Adolescent Brain Development and Implications for Adolescent health, Invited Speaker, Ohio Valley Regional Chapter of the Society for Adolescent Health and Medicine (OVSAHM), Pittsburgh PA.
78. 2015, Brain Systems Underlying Working Memory Maturation: A longitudinal Study, Invited Speaker, PAL Psychology Department, Carnegie Mellon University, Pittsburgh PA.
79. 2016, Working Memory and Adolescent Cannabis Use, Invited Speaker, The Center for Children and Families, Florida International University, Miami, Florida.
80. 2016, The Development of Convergent Corticostriatal Structural Connectivity During Adolescence, Invited Speaker, The Center for Mind and Brain, University of California, Davis, Davis, California.
81. 2016, The Emergence of Collaborative Brain Function Underlying Cognitive Development through Adolescence, Invited Speaker, Mahoney Institute for Neurosciences Colloquium Series, University of Pennsylvania, Philadelphia, PA.
82. 2016, The Adolescent Brain: A Second Window of Opportunity, Invited Speaker, Adolescent Neuroscience and the Opportunity for Positive Engagement Roundtable, UNICEF, New York, NY.
83. 2016, The Adolescent Brain, Invited Speaker, Staunton Farm Foundation Board of Directors Meeting, Pittsburgh, PA.
84. 2016, From Base Camp to the Summit: Understanding Adolescent Brain Trajectories, Invited Speaker, Department of Psychiatry Lecture Series, Meet the PI Lecture, University of Pittsburgh, Pittsburgh, PA.
85. 2016, Exploratory Brain Processes Underlie the Transition from Adolescence to Adult Cognitive Control, Invited Speaker, Richard B. Millward Lecture, Brown University CLPS Department, Providence, Rhode Island.
86. 2016, Adolescent Specialization of Brain Systems Underlying Cognitive Maturation, Invited Speaker, Sackler Institute of Developmental Psychobiology, Cornell Medical School, New York, NY.

87. 2016, Your Brain on Adolescence, Invited Speaker, Senior Science class, Pittsburgh Science and Technology Academy, Pittsburgh Public Schools, Pittsburgh, PA.
88. 2017, Especialización de Sistemas Cerebrales Subyacentes a la Maduración Cognitiva en la Adolescencia [Specialization of Underlying Brain Systems and Cognitive Maturation in Adolescence], Invited Speaker, Pontifica Universidad Catolica, Department of Neuroscience, Santiago, Chile.
89. 2017, Marihuana y el Cerebro Adolescente [Marajuana and the Adolescent Brain], Invited Speaker, Pontifica Universidad Catolica, Public Talk, Santiago, Chile.
90. 2017, Neuroimaging Methods, Invited Speaker, Pontifica Universidad Catolica, Department of Chemistry, Santiago, Chile.
91. 2017, Changes in Brain Processing Underlying Adolescent Cognitive Development, Invited Speaker, Neuroscience Seminar, Queens University, Kingston, ON.
92. 2017, Adolescent Brain Development: Implications for the Juvenile Criminal Justice Systems, Invited Speaker, Pennsylvania Conference of State Trial Judges, Concurrent Sessions: The New Science Regarding Adolescence: Juvenile Brains & Juvenile Offenders, Pittsburgh, PA.
93. 2017, Exploring the Sculpting of the Adolescent Brain: Neuroimaging Studies of Cognitive Maturation, Honorary Speaker, Provost Inaugural Lecture, Pittsburgh, PA.
94. 2017, Changes in the Integrations of Brain Processes Supporting the Transition from Adolescent to Adult Level Cognitive Control, Invited Chair, Cognitive Neuroscience Society 24<sup>th</sup> Annual Meeting, Invited Symposium 4 Brain Network Specialization Through Adolescence Supporting Stabilization of Cognitive and Affective Brain Systems, San Francisco, CA.
95. 2017, Adolescent Brain Development, Invited Speaker, Youth Research Advisory Board Think, Act, Grow® (TAG) Talks series, Adolescent Health, UPMC, Pittsburgh, PA.
96. 2017, Adolescent Neurocognitive Maturation, Invited Speaker, The Icahn School of Medicine at Mount Sinai (ISMMS), Mount Sinai Adolescent Health Center (MSAHC), Institute for the Study of Adolescence and Young Adulthood, New York, NY.
97. 2017, Adolescent Neurocognitive Maturation, Invited Speaker, Neuroscience Summer Undergraduate Program, Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA.
98. 2017, Human Subjects Research, Invited Speaker, Graduate Student Seminar, Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA.
99. 2017, Neurocognitive Development Through Adolescence, Invited Speaker, Université Paris Descartes, Sorbonne, France.
100. 2017, Creating the Brain through Adolescence, Invited Speaker, Adolescent Psychology Undergraduate Course, Carlow University, Pittsburgh, PA.

101. 2017, Adolescent Neurocognitive Development, Invited Speaker, Cognitive Brown Bag Series, Learning Research & Development Center, University of Pittsburgh, Pittsburgh, PA.
102. 2017, The Critical Importance of the Adolescent Stage of Brain Development, Invited Speaker, CMU BrainHub Conference, Brain Hub, Carnegie Mellon University, Pittsburgh, PA.
103. 2017, Adolescent Brain Development: Risk and Resilience, Invited Speaker, Vulnerability and Resilience: Mood and Anxiety Disorders Symposium (led by Huda Akil), National Academy of Medicine, Washington DC
104. 2017, Adolescent Neurocognitive Development: Vulnerabilities and Opportunities, Invited Speaker, UPMC Concussion Program Grand Rounds, UPMC Rooney Center for Sports Medicine, Concussion Program, University of Pittsburgh Medical Center, Pittsburgh, PA.
105. 2017, Potential Biomarkers and their Expression during Adolescent Neurocognitive Development, Invited Speaker, Biomarkers to Enable Therapeutics Development in Neurodevelopmental Disorders Workshop, Washington, DC.
106. 2018, The Critical Importance of the Adolescent Stage of Brain Development, Invited Speaker, International Neuropsychological Society Workshop, Washington, DC.
107. 2018, Adolescent Brain Development: Risk and Resilience, Invited Speaker, Mount Sinai Adolescent Health Center and the World Childhood Foundation Ending Violence Against Children: Developing a Roadmap to a Healthy Childhood and Adolescence Conference, Manhattan, NY.
108. 2018, Development of Dopamine Processing in Reward and Cognitive Systems through Adolescence, Invited Speaker, Stony Brook Medicine, Stony Brook, NY.
109. 2018, Changing the Trajectory of Mental Illness: A Children's-WPIC Collaboration, Invited Speaker, The Children's Hospital of Pittsburgh Foundation, Pittsburgh, PA.
110. 2018, Longitudinal Trajectories of Neurocognitive Development, Invited Speaker, Big Data Little Brains, Flux Society Satellite Conference, Chapel Hill, NC.
111. 2018, The Critical Importance of the Adolescent Stage of Brain Development, Invited Speaker, Day in the Lifespan Conference at the University of Pittsburgh, Pittsburgh, PA.
112. 2018, Adolescent Neurocognitive Maturation, Invited Speaker, Staunton Farm Foundation, Pittsburgh, PA.
113. 2018, Uncovering Neurodevelopmental Specialization of Neurocognitive Processes using Multimodal Neuroimaging, Invited Speaker, Organization for Human Brain Mapping, Singapore.
114. 2018, The Critical Importance of the Adolescent Stage of Brain Development, Invited Speaker, Carlow University, Pittsburgh, PA.



115. 2018, Understanding Adolescence through Brain Maturation, Keynote Speaker, Rural Behavioral Health Conference, Canonsburg, PA.
116. 2018, Desarrollo Cognoscitivo del Cerebro Adolescente y Riesgo de Uso de Sustancias. Actualizaciones en la Neurobiología del Alcohol y Cannabis [Cognitive Development of the Adolescent Brain and Substance Use Risk: Developments in the Neurobiology of Alcohol and Cannabis], Invited Speaker, Pontifica Universidad Catolica de Chile, Santiago, Chile.
117. 2018, Adolescent Development of Brain Systems Supporting Cognition and Motivation, Invited Speaker, American Academy of Child and Adolescent Psychiatry, Seattle, WA.
118. 2019, Adolescent Neurocognitive Maturation: Vulnerabilities and Opportunities, Invited Speaker, Grand Rounds at Children's Hospital of Pittsburgh, Pittsburgh, PA.
119. 2019, Normative Adolescent Development: Specialization of Executive and Reward Systems, Invited Speaker, The Spectrum of Developmental Disabilities XLI Conference at John Hopkins School of Medicine, Baltimore, MA.
120. 2019, The Use of Preregistration Tools in Ongoing, Longitudinal Cohorts, Panel Talk, SRCD Biennial Meeting, Baltimore, MA.
121. 2019, Cognitive Control in Childhood and Adolescence: Tracking Neural Development and Testing Novel Interventions, Paper Symposium, SRCD Biennial Meeting, Baltimore, MA.
122. 2019, Specialization of Neurocognitive Processes Through Adolescence Using Multimodal Neuroimaging, Invited Speaker, Washington University, St. Louis, MO
123. 2019, The Adolescent Period of Neurocognitive Maturation, Keynote Speaker, National Conference of the Greek Psychological Society, Alexandroupolis, Greece.
124. 2019, 7T MRSI Evidence for Changes in GABA/Glu Ratios Through Adolescent Development, Symposium Talk, Organization of Human Brain Mapping conference, Rome, Italy.
125. 2019, Oculomotor evidence of cognitive maturation through adolescence, Symposium Talk, European Conference on Eye Movements, August 2019, Alicante, Spain.
126. 2019, Neurocognitive specialization through adolescence, Scientific Lecture, Child and Adolescent Imaging Research (CAIR) Program, September 2019, Calgary, Canada.
127. 2019, How did we get here? How the teen brain shapes into the adult brain, Public Lecture, Child and Adolescent Imaging Research (CAIR) Program, September 2019, Calgary, Canada.
128. 2020, Brain Mechanisms Underlying the Adolescent Transition to Adulthood, Invited Lecture, RISE graduate seminar series, University of Puerto Rico, January 2020, San Juan, Puerto Rico.

129. 2020, Adolescent Neurocognitive Specialization Supporting Adult Trajectories, NYU Langone, Department of Psychiatry, February 2020, New York, NY.
130. 2020, Adolescent Brain Development: Implications For The Juvenile Criminal Justice System, Duquesne University, Neuroscience and Law, February 2020, Pittsburgh, PA.
131. 2020, Specialization of cognitive and reward brain systems through adolescence, Colorado University, Boulder Neuroscience Seminars Series, February 2020, Boulder, CO.
132. 2020 Justice, Equity, Diversity, and Inclusion (JEDI) ABCD Workforce. ABCD Annual Meeting. October 2020. Virtual.
133. 2020, Neurocognitive Specialization through Adolescence to Establish Adult Trajectories, Invited Speaker, Current Works Virtual Talk, Yale Dept of Psychology, November 2020, Virtual.
134. 2020, Women in Academia, Invited Speaker, Professional Development Series: How to be a Successful Woman in Academia, Florida International University, December 2020. Virtual.
135. 2021, How Neurocognitive Specialization through Adolescence Establishes Adult Trajectories, John G. Rangos; Senior Research Seminar, Children's Neuroscience Institute, University of Pittsburgh, February 2021. Virtual.
136. 2021, How Your Brain Grows, Troop # 55286 Presentation, Girl Scouts of America, Pittsburgh PA, March 2021. Virtual.
137. 2021, Neurocognitive Specialization through Adolescence, Meet the Leaders in Mind and Brain Research series, Center for Mind and Brain, University of California – Davis, March 2021. Virtual.
138. 2021, Adolescent Brain Development: Implications for the Juvenile Criminal Justice System, Law & Neuroscience Lecture, Duquesne University, March 2021. Virtual.
139. 2021, Mechanism Underlying Neurocognitive Specialization in Adolescence, Society for Biological Psychiatry Annual Meeting, April 2021. Virtual.
140. 2021, Specialization in the Adolescent brain determining Adult Trajectories, Grand Rounds Talk, Icahan School of Medicine at Mount Sinai, May 2021. Virtual.
141. 2021, Especialización de sistemas neurocognitivos durante la adolescencia. La Asociación Argentina de Ciencias del Comportamiento (AACC), Buenos Aires, Argentina, September 2021. Virtual.
142. 2021, Neurocognitive Specialization through Adolescence, Works-In-Progress Seminar, The Nathan S. Kline Institute for Psychiatric Research, November 2021. Virtual.
143. 2022, Adolescent Brain Cognitive Development: Opportunities for Scientific Discovery, Adolescent Research Methods Seminar, Division of Adolescent and Young Adult Medicine, UPMC Children's Hospital of Pittsburgh, March 2022. Virtual.

144. 2022, Specialization of brain mechanism in adolescence that support adult neurocognitive trajectories, Centre for Neuroscience Studies, Queen's University, April 2022. Virtual.
145. 2022, Brain Mechanism Supporting the Transition from Adolescence to Adult Neurocognitive Trajectories, The Del Monte Family Neuroscience Keynote Address II, Del Monte Institute for Neuroscience, University of Rochester, June 2022. Rochester NY.
146. 2022, Behavior and the Brain: How Adolescent Brain Development Weighs on the Politics of Responsibility (Facilitator), Inaugural Voices for Juvenile Justice Conference, Passport Academy Charter School, October 2022. Pittsburgh, PA.
147. 2022, Adolescent Neurocognitive Specialization: Vulnerabilities and Opportunities, Distinguished Visiting Lecturer Series, Weill Institute for Neurosciences, University of California San Francisco, October 2022. San Francisco CA.
148. 2022, Navigating the Scientific Writing Process: A Matter of Skilled Mentoring, Explicit Support, and Learned Experience, Elsevier and University of Pittsburgh. November 2022. Virtual.
149. 2023, Brain Mechanisms Supporting Specialization Through Adolescence to Adult Neurocognitive Trajectories. Center for Pediatric Brain Health Seminar Series, Boys Town National Research Hospital. April 2023. Boys Town, NE.

#### **OTHER RESEARCH ACTIVITIES:**

##### NIH

1. Study Section Member, *Cognition and Perception*, National Institutes of Health (NIH). Center for Scientific Review (2006, July – 2010, June).
2. Member, *Advisory Committee to the Director (ACD)*, National Institutes of Health (NIH) (2008, August – 2012, December).
3. Member, *Board of Scientific Counselors (BSC)*, National Institute of Mental Health (NIMH), (2012, July – 2017, June)
4. Member, *Blue Ribbon Panel (BRP)*, National Institute on Drug Abuse (NIDA), (2013, March – 2014, January)
5. Member, *Advisory Board to Avniel Ghuman, R01 Inside the Social Perception Network: Dynamics, Connectivity and Stimulation*, National Institutes of Mental Health (NIMH), (2016)
6. Member, *Advisory Board to Moriah Thomason, R01 In Utero Assessment of the Human Neural Connectome and Later Child Behavior*, National Institutes of Mental Health (NIMH), (2016)

##### Other:

7. Public Advocate, American Psychological Association's 5th annual *Science Leadership Conference* (SciLC), Enhancing the Nation's Health through Psychological Science (September 3, 2009).
8. Discussion participant with UCSD Research Ethics Program (March 2010).

9. Informed APA and AMA briefs regarding the developmental neuroscience evidence relevant to the juvenile sentence of Life Without Parole presented to the Supreme Court (November 2009).
10. Reviewer, CTSI NIH Clinical and Translational Science (2012)
11. ABCD Neuroimaging Workshop Advisory Committee Meeting (2019)
12. Member of the Committee on Leveraging Insights and Approaches from Social and Affective Neuroscience to Promote Adaptive Aging for The National Academies of Science, Engineering, and Medicine (2019 – present)
13. Ad-hoc Journal Reviewer:
  - a. Progress in Neuropsychopharmacology (1998)
  - b. Biological Psychiatry (1998 – 2000, 2008)
  - c. Journal of Gerontology (1999)
  - d. Journal of Autism and Developmental Disorders (2000)
  - e. NeuroImage (2000)
  - f. Journal of Neuroscience (2001)
  - g. Psychophysiology (2001)
  - h. Journal of Neurophysiology (2002)
  - i. Cerebral Cortex (2002-2005)
  - j. Archives of General Psychiatry (2003)
  - k. Journal of Experimental Child Psychology (2003)
  - l. Developmental Science (2003)
  - m. Human Brain Mapping (2003)
  - n. Neuropsychology (2004)
  - o. Journal of Child Psychology and Psychiatry (2004)
  - p. International Journal of Neuropsychopharmacology (2004)
  - q. Developmental Psychology (2004)
  - r. Trends in Cognitive Sciences (2004)
  - s. Developmental Brain Disorders (2004)
  - t. Brain (2004)
  - u. Cognition and Perception (2005)
  - v. Neuropsychologia (2005)
  - w. Journal of Cognitive Neuroscience (2005)
  - x. Cognitive Brain Research (2005)
  - y. Current Directions for Psychological Science (2005)
  - z. Experimental Brain Research (2005)
  - aa. Neuroscience Letters (2006)
  - bb. Child Development (2006)
  - cc. Frontiers in Human Neuroscience (2007)
  - dd. Nature Reviews Neuroscience (2007)
  - ee. Psychological Science (2008)
  - ff. Consulting Board of the Psychology Bulletin (2008)
  - gg. Proceedings of the National Academy of Sciences of the United States of America (2008)
  - hh. Development and Psychopathology (2010)
  - ii. American Journal of Psychiatry (2010)
  - jj. Frontiers in Human Neuroscience (2010)
  - kk. Neuron (2010)
  - ll. SRCD Child Development Perspectives (2011)
14. Ad-Hoc Grant Reviewer
  - a. National Institutes of Health:

- i. Ad Hoc Reviewer: Scientific Review Branch/NINDS – “Randomized Indomethacin GMH/IVH Prevention Trial” (1999, June)
- ii. Reviewer NIH: CSR Special Emphasis Panel (ZRG1 BDCN-Brain Disorders and Clinical Neurosciences) RFA NIH initiative "Neuroimaging technology development to assess brain and behavior in pediatric populations" (2002, June)
- iii. Ad Hoc Reviewer: The Developmental Brain Disorders [DBD] Study Section NIH (2004, November)
- iv. Ad Hoc Reviewer: Cognition and Perception [CP] Study Section NIH (2005, February, November)
- v. Participant - NIMH Council Work on MRI Research Practices Meeting in Bethesda, Maryland (2005, September)
- b. National Science Foundation (2002, July)
- c. National Institute on Drug Abuse (2002, July)

Other:

- d. Medical Research Council of England (1999, September)
- e. Health Research Board in Ireland (2003, January)
- f. New York University Whitehead Fellowships for Junior Faculty in Biomedical and Biological Sciences (2004, April)
- g. San Antonio Life Sciences Institute (2005, August)

**MEDIA:**

- a. Television Nacional De Chile Enlaces - Adolescencia: La tormenta del crecimiento Brain maturation and changes in behavior (2002)
- b. Radiology (2002)
- c. Evans, J (2003, December) Brain studies spotlight origins of self-control *Pediatric News*, 37, 22
- d. Beckman, M (2004, July 30) Crime culpability and the adolescent brain *Science*, 305, 596-599
- e. Raeburn, P (2004, October 17) Too immature for the death penalty? *The New York Times Magazine*, Section 6, Page 26, Column 1
- f. Gottlieb, D (Host), Restak, R (Guest Speaker), & Luna, B (Guest Speaker) (2004, November 1) The new brain [Radio Program Broadcast] In *Voices in the Family* Philadelphia: WHY-91FM
- g. Brain's 'working memory' expands with age (2004, November 1) *The Pittsburgh Post Gazette* A12
- h. Laidman, J (2004, November 1) Forget it – stress is to blame If you're having a bad day, memory lapses are more common *The Toledo Blade*
- i. Malcom, L (Host), Gur, R (Guest Speaker), & Luna, B (Guest Speaker) (2004, November 13) Rebels and the cause – The adolescent brain [Radio Program Broadcast] In *All in the Mind* Australia: ABC Radio National
- j. Glaser, G (2005, February 21) Teens' brains not fully wired for a reason *The Oregonian*
- k. Collins, M (Host), Luna, B (Guest Speaker) (2005, August 11) [Radio Program Broadcast] In *Charlotte Talks with Mike Collins* North Carolina WFAE 907FM
- l. Wald, C (Producer), Luna, B (Guest Speaker) (2005, December 1) [Radio Program Broadcast] In *Science Update Radio Program* Washington, DC
- m. Sabbagh, L (2006, August/September) The teen brain, hard at work No really *Scientific American Mind*, 20-25

- n. Powell, K (2006, August 24) How does the teenage brain work? *Nature News Feature*, 442, 865-867
- o. Templeton, D (2006, November 29) Teenagers' brains are still under construction *Pittsburgh Post-Gazette*
- p. Lustig, R (Producer), Luna, B (Guest Speaker) (2006, December 7) [Radio Program Broadcast] In *Generation Next Daily Documentary*, BBC's World News
- q. Miksch, J (2006) FBI Calling *PITTMED* University of Pittsburgh School of Medicine Magazine 8(4), 3
- r. Monastersky, R (2007, January 12) Who's minding the teenage brain? Scientists find clues to why adolescents seek out and find trouble In *The Chronicle of Higher Education*
- s. *Oxygen Mentors: Bringing Along the Next Generation* [a public affairs campaign which provides mentoring to women nationwide] (2007)
- t. Bernardini, B (5 July 2007) SuperQuark Science TV program RAI 1, European Cable *Scientific Advances*
- u. Vitone, E (Fall 2007) "What Possessed You?" *PITTMED* University of Pittsburgh School of Medicine Magazine
- v. National Press Club Juvenile Sentence of Life without Parole November 2009, Washington DC
- w. Vitone, E (Fall 2010) "Mars and Venus Revisited" *PITTMED* University of Pittsburgh School of Medicine Magazine
- x. Slomski, A (Fall 2010) Crazy Kids *Proto: Dispatches from the Frontiers of Medicine*, 27-33
- y. Luna B (Jan 21, 2011) Understanding Voluntary Behavior *New York Times, Opinion Pages*
- z. Baum, M (23 May 2011) Action Potential: Probing the Brain Power of Pitt Neuroscience, 4-5 Pitt Chronicle
- aa. Dobbs, D (Oct 2011) Beautiful Brains. National Geographic Magazine, 36-59
- bb. Taylor, Sarah. (Producer), Luna, B. (Guest Speaker). (2011, October 5) [Radio Program Broadcast]. In *The Regina Brett show*, WKSU 89.7.
- cc. Shiely, Kyle. (Producer), Luna, B. (Guest Speaker). (2011, October 9) [Radio Program Broadcast]. In *News and Views*, WCCO 830.
- dd. Smith, Jonathan. (producer), Luna, B. (Guest Speaker). (2011, October 12) [Radio Program Broadcast]. In *Word of Mouth*, NHPR.
- ee. Townsend, Melissa. (producer) Luna, B. (Guest Speaker). (2011, October 12) [Radio Program Broadcast]. In *Midmorning*, Minnesota Public Radio.
- ff. Landau, Elizabeth. (Oct 2011) Why Teens are Wired for Risk. CNN.com.
- gg. Sherman, Carl. (Oct. 2012) A Delicate Balance: Risks, Rewards, and the Adolescent Brain. *The Dana Foundation*.
- hh. Chedd, Graham. PBS Special (Sept. 2013) Brains on Trial with Alan Alda.
- ii. Burrows, Thomas (15 February 2015) Kidults are the new teens: People in their 20s are affected by adolescent hyper activity and don't become proper grown-ups until 25, say scientists. *Daily Mail*.
- jj. Byko, Laura (15 February 2015) Don't blame the teenage brain for risk-taking. *Pittsburgh Post-Gazette*.
- kk. Tufft, Ben (15 February 2015) Adulthood begins at 25, says new research. *The Independent*.
- ll. Radowitz, John von (15 February 2015) We're 'kidults' in our 20s, research shows. Press Association. *MSN*.
- mm. Fathima, Afza Kandrikar (17 February 2015) 'Kidults': Teenage Hyper-Activity Continues Until Mid-20s. *International Business Times*.

- nn. Pinsky, Drew. Dr. Drew Midday Live with Mike Catherwood (18 February 2015) [Radio Program Broadcast]. *KABC Talk Radio*.
- oo. Bambury, Brent. Day 6 (21 February 2015) Kidults: Does delaying responsibility affect our brains? [Radio Program Broadcast]. *CBC Radio*.
- pp. Rousseau, Alex. (Researcher) The Right Hook (20 February 2015) [Radio Program Broadcast]. *Newstalk Radio, Dublin*.
- qq. Roth, M. (Oct 27, 2017) Neurons to Neighborhoods Focuses on the Teen Brain. *Carnegie Mellon University Brain Hub*.
- rr. Specktor, B. (Jan 30, 2018) Why Pot Smokers Scored Higher Than Nonsmokers on This Memory Test. *LiveScience*.
- ss. Wright, Kai. (March 21, 2018) Caught, Episode 5: The Teenage Brain is Like a Sports Car. *WNYC Studios*.
- tt. Neary, Lynn. (Sept 20, 2018) Adolescent determinants of adult behavior. *NPR*.
- uu. Simmank, Jakob. (Feb.14, 2019) Developmental changes to the adolescent/pubescent brain. *DIE ZEIT*.
- vv. Tolliver, Sandra. (Apr. 15 2020) Take a fascinating tour of the teenage brain with Pittsburgh researcher Dr. Beatriz Luna *Kidsburgh.org*.

#### **LIST of CURRENT RESEARCH INTERESTS:**

- a. Developmental changes in dopamine processing and its effects on cognitive control and reward processing
- b. Developmental changes in the ratio of GABA and glutamate in prefrontal systems with development and its association with cognitive development
- c. Developmental changes in brain network connectivity and association with cognitive control
- d. Changes in developmental trajectories of cognitive development using longitudinal data
- e. Risk for adolescent substance use
- f. Neurocognitive integrity in psychosis

#### **SERVICE:**

##### University of Pittsburgh Medical Center / Western Psychiatric Hospital:

- a. Co-Director, Neurobehavioral Studies Program (1998 - 2002)
- b. Reviewer for WPIC Research Committee (1998 - Present)
- c. Neuroscience, Clinical, and Translational Research Center Scientific Advisory Committee (1999 - Present)
- d. Director of the Laboratory of Neurocognitive Development (2000- Present)
- e. Pilot Imaging Project (PIP) Review Committee (2003- Present)
- f. MR Advisory Committee (2003- Present)
- g. Academic Promotions and Tenure Committee (2009-present)
- h. Development of Cortico-limbic Circuitry Recruitment Group (2010-present)
- i. Faculty Search Committee (2010-present)
- j. WPIC Research Day Planning Committee (2011-present)
- k. K-Award Mentor Committee (2011-present)
- l. Neurology of Neurological Disease T32 Training Grant Advisory Committee (2014-Present)
- m. Predoctoral Training in Basic Neuroscience T32 Training Grant Advisory Committee (2018- present)

- n. Member of the search committee for the Senior Vice Chancellor for the University of Pittsburgh Medical Center (2019-present)

University of Pittsburgh, other departments:

- a. National Academy of Science workshop on Neuroscience and the Law Organization Committee (2017-Present)

Community Activities:

- a. Lectureship – *Neurobiological Basis of Psychopathology*, Mercy Behavioral Health Outpatient Staff, Pittsburgh, PA (1999)
- b. Lectureship – *The Human Brain*, Liberty Elementary School, Pittsburgh, PA (2000)
- c. Guest Speaker – *Fight for Lifers West (FFLW) Adolescents with life sentences Meeting*, Thomas Melton Center, Pittsburgh PA (2006, December 16)
- d. Member, Board of Directors – Planned Parenthood of Western Pennsylvania (2007-Present)
- e. Provided Expert Testimony – Senate Judiciary Public Hearing on Juvenile Lifers, Senator Greenleaf, Harrisburg, PA (2008, September 22)
- f. Guest Speaker, Judicial educational seminar on Emerging Issues in Neuroscience (May 2009)
- g. Guest Speaker – *What are they Thinking? Why Adolescent Kids do Stupid Things*, Keynotes National Council of Jewish Women’s Annual Meeting, Tree of Life Congregation, Squirrel Hill, PA (2009, April 26)
- h. Provided assistance in APA and AMA briefs regarding the juvenile sentence of Life Without Parole presented to the Supreme Court (November 2009)
- i. Guest Speaker - Pittsburgh Community Cinema at WQED screening of *Me Facing Life: Cyntoia’s Story* Pittsburgh, PA (2011, Feb 10)
- j. Guest Speaker - *What can brain studies tell us about adolescent behavior?* Pittsburgh School for the Creative and Performing Arts (CAPA), Pittsburgh, PA (2011, November 8)
- k. Panelist – Law and Policy of the Developing Brain: Neuroscience from Womb to Death Conference. University of California Hastings College of the Law, San Francisco, CA (2012, February 9-11)
- l. Guest Speaker – *What can brain studies tell us about adolescent behavior?* Pittsburgh Allderdice High School, Pittsburgh, PA (2012, March 8)
- m. Scholarly Discussion Panelist – Lantern Theater Company, Philadelphia, PA (2012, March 12)
- n. Guest Speaker-*What are they thinking? Learning about learning, A Speaker Series for Parents. Your Child’s Brain Explained*, Winchester Thurston School, Pittsburgh, PA (2015, January 20)
- o. Invited Speaker - *Adolescent Brain Development and Its Implications for Adolescent and Child Health: Vulnerabilities and Opportunities*, Division of Adolescent and Young Adult Medicine, Pittsburgh, PA (2015, February 26)
- p. Invited Speaker - *Creating the Brain through Adolescence*, Thrival Innovation Festival, Pittsburgh, PA (2015, Sept 25)
- q. Invited Speaker - *Adolescent Brain Development and Implications for Adolescent health*, Ohio Valley Regional Chapter of the Society for Adolescent Health and Medicine (OVSAHM), Pittsburgh PA (2015, October 15)
- r. Invited Speaker - *Brain Systems Underlying Working Memory Maturation: A longitudinal Study*, PAL Psychology Department, Carnegie Mellon University, Pittsburgh PA (2015, November 9)



- s. Invited Speaker - *The Adolescent Brain*, Staunton Farm Foundation Board of Directors Meeting, Pittsburgh, PA (2016, June 23)
- t. Invited Speaker - *From Base Camp to the Summit: Understanding Adolescent Brain Trajectories*, Department of Psychiatry Lecture Series, Meet the PI Lecture, University of Pittsburgh, Pittsburgh, PA (2016, September 23)
- u. Invited Speaker - *Your Brain on Adolescence*, Senior Science class, Pittsburgh Science and Technology Academy, Pittsburgh Public Schools, Pittsburgh, PA (2016, Dec 19)
- v. Invited Speaker - *Adolescent Brain Development: Implications for the Juvenile Criminal Justice Systems*, Pennsylvania Conference of State Trial Judges, Concurrent Sessions: The New Science Regarding Adolescence: Juvenile Brains & Juvenile Offenders, Pittsburgh, PA (2017, Feb 23)
- w. Invited Speaker - *Adolescent Brain Development*, Youth Research Advisory Board Think, Act, Grow® (TAG) Talks series, Adolescent Health, UPMC, Pittsburgh, PA (2017)
- x. Invited Speaker - *Adolescent Neurocognitive Maturation*, Neuroscience Summer Undergraduate Program, Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA (2017, June 2)
- y. Invited Speaker - *Human Subjects Research*, Graduate Student Seminar, Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA (2017, June 14)
- z. Invited Speaker - *Creating the Brain through Adolescence*, Adolescent Psychology Undergraduate Course, Carlow University, Pittsburgh, PA (2017, July 11)
- aa. Invited Speaker - Adolescent Neurocognitive Development, Cognitive Brown Bag Series, Learning Research & Development Center, University of Pittsburgh, Pittsburgh, PA (2017, Sept 6)
- bb. Invited Speaker - *The Critical Importance of the Adolescent Stage of Brain Development*, CMU BrainHub Conference, Brain Hub, Carnegie Mellon University, Pittsburgh, PA (2017, October 2)
- cc. Invited Speaker - *Adolescent Neurocognitive Development: Vulnerabilities and Opportunities*, UPMC Concussion Program Grand Rounds, UPMC Rooney Center for Sports Medicine, Concussion Program, University of Pittsburgh Medical Center, Pittsburgh, PA (2017, November 2)
- dd. Invited Speaker - *Changing the Trajectory of Mental Illness: A Children's-WPIC Collaboration*, The Children's Hospital of Pittsburgh Foundation, Pittsburgh, PA (2018, April 25)
- ee. Invited Speaker - *The Critical Importance of the Adolescent Stage of Brain Development*, Day in the Lifespan Conference at the University of Pittsburgh, Pittsburgh, PA (2018, May 26)
- ff. Invited Speaker - *Adolescent Neurocognitive Maturation*, Staunton Farm Foundation, Pittsburgh, PA (2018, June 14)
- gg. Invited Speaker - *The Critical Importance of the Adolescent Stage of Brain Development*, Carlow University, Pittsburgh, PA (2018, July 20)
- hh. Keynote Speaker - *Understanding Adolescence through Brain Maturation*, Rural Behavioral Health Conference, Canonsburg, PA (2018, September 21)
- ii. Scientific Advisory Board of Brown University's Robert J. and Nancy D. Carney Institute for Brain Science (Jan 2020 – Dec 2022)
- jj. External Advisory Committee member- Cognitive Neuroscience of Development & Aging (CONDA) Center (April 2020 – April 2023)

