

**CURRICULUM VITAE**  
Matthew W. Mosconi, Ph.D.

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**Current Position:** *Associate Professor - Psychology and Applied Behavioral Science*  
*Associate Scientist - Life Span Institute*  
*Director, University of Kansas Center for Autism Research and Training (K-CART)*  
University of Kansas, Lawrence, KS

**Education:** Ph.D. Child Clinical Psychology  
University of North Carolina – Chapel Hill (2007)

B.A. Psychology/English, Summa cum Laude  
Emory University (1999)

**Other Academic Appointments:**

2015-Present: Participating Faculty, Child Language Doctoral Program, University of Kansas

2015-2017: Director of Clinical/Translational Research, University of Kansas Center for Autism Research and Training (K-CART)

2011-2015: Assistant Professor of Psychiatry and Pediatrics, University of Texas Southwestern Medical Center (Current adjunct appointment)

2014-2015: Head of Clinical Research, Center for Autism and Developmental Disabilities, UT Southwestern Medical Center

2013-2015: Adjunct Assistant Professor of Behavioral and Brain Sciences, University of Texas at Dallas

2009-2011: Assistant Professor of Psychiatry, University of Illinois at Chicago Medical Center

2007-2009: Postdoctoral Research Fellow, Cognitive Neuroscience, University of Illinois at Chicago Medical Center

2007-2009: Postdoctoral Clinical Fellow, Pediatric Neuropsychology, University of Illinois at Chicago Medical Center

2006-2007: Clinical Psychology Intern, Psychiatry, University of North Carolina at Chapel Hill

2005-2006: National Alliance for Autism Research Predoctoral Fellow, Clinical Psychology, University of North Carolina at Chapel Hill

2003-2004: Instructor, Psychology, University of North Carolina at Chapel Hill

2001-2004: Graduate Research Assistant, Clinical Psychology/Division TEACCH University of North Carolina at Chapel Hill

**Board Certification:**

Kansas Behavioral Sciences Regulatory Board, Licensed Clinical Psychologist

**Honors, Fellowships and Awards:**

- 2015: American College of Neuropsychopharmacology (ACNP) Selected Voice Poster Presentation
- 2014: International Society for Autism Research (INSAR) Young Investigator Award
- 2013: American College of Neuropsychopharmacology (ACNP) Data Blitz Invited Presentation
- 2011: American College of Neuropsychopharmacology (ACNP) Data Blitz Invited Presentation
- 2010-2015: NIMH K23 Career Development Award
- 2009: Autism Speaks Postdoctoral Training Award
- 2009: Society for Neural Control of Movement (NCM) Travel Award
- 2007: NIH T32 Postdoctoral Training Fellowship Award
- 2007: International Meeting for Autism Research (IMFAR) Best Dissertation Award
- 2007: International Meeting for Autism Research (IMFAR) Travel Award
- 2005: National Alliance for Autism Research (NAAR; now Autism Speaks) Predoctoral Fellowship Award
- 2004: Smith Graduate Research Award (University of North Carolina)
- 2003: Graduate Student Research Opportunity Award (University of North Carolina)
- 1998: Phi Beta Kappa

**BIBLIOGRAPHY:****Peer Reviewed Manuscripts:** \* - *ISI value represents 5-year impact factor*

1. Ethridge LE, White SP, **Mosconi MW**, Wang J, Pedapati EV, Erickson CA, Byerly MJ, Sweeney JA. (in press). Neural synchronization deficits linked to cortical hyperexcitability and auditory hypersensitivity in Fragile X Syndrome. Molecular Autism. *ISI=6.08*
2. Shou G, **Mosconi MW**, Wang J, Ethridge L, Sweeney JA, Ding L. (in press). Electrophysiological signatures of atypical intrinsic brain connectivity networks in autism. Journal of Neural Engineering. 14(4):046010. doi: 10.1088/1741-2552/aa6b6b *ISI=3.49*
3. Wang J, Ethridge LE, **Mosconi MW**, White SP, Binder DK, Pedapati EV, Erickson CA, Byerly MJ, Sweeney JA. (2017). A resting EEG study of neocortical hyperexcitability and altered functional connectivity in fragile X syndrome. Journal of Neurodevelopmental Disorders. 9:11. doi: 10.1186/s11689-017-9191-z *ISI=3.85*
4. Wang Z, Kwon MH, Mohanty S, Schmitt LM, White SP, Christou EA, **Mosconi MW**. Increased force variability is associated with altered modulation of motoneuron pool activity in autism spectrum disorder (ASD). International Journal of Molecular Sciences. 18:698. doi:10.3390/ijms18040698 *ISI=3.26*

5. Schmitt LM, Ankeny LD, Sweeney JA, **Mosconi MW**. (2017). Inhibitory control processes and the strategies that support them during hand and eye movements. Frontiers in Psychology: Cognition.  
*ISI=2.46 (2016; 5 year ISI is not yet available)*
6. Wang Z, Hallac R, Conroy KC, White SP, Kane AA, Collinsworth AL, Sweeney JA, **Mosconi MW**. (2017). Postural orientation and equilibrium processes associated with increased postural sway in autism spectrum disorder (ASD). Journal of Neurodevelopmental Disorders. 8:43.  
*ISI=3.85*
7. D’Cruz A-M, **Mosconi MW**, Ragozzino ME, Cook EH, Sweeney JA. (2016). Alterations in the functional neural circuitry supporting flexible choice behavior in autism spectrum disorder. Translational Psychiatry, 6(10):e916. doi: 10.1038/tp.2016.161.  
*ISI=5.62*
8. Neely KA, Mohanty S, Schmitt LM, Wang Z, Sweeney JA., **Mosconi MW**. (2016). Motor memory deficits contribute to motor impairments in autism spectrum disorder. Journal of Autism and Developmental Disorders, doi:10.1007/s10803-016-2806-5  
*ISI=4.36*
9. Ethridge L, White SP, **Mosconi MW**, Wang J, Byerly MJ, Sweeney JA. (2016). Reduced habituation of auditory evoked potentials indicated cortical hyperexcitability in Fragile X Syndrome. Translational Psychiatry, 6:e787.  
*ISI=5.62*
10. **Mosconi MW**, Lejuez CW. (2016). Making the brain matter in assessing and treating adolescent substance use – a commentary on Conrod and Nikolaou. Journal of Child Psychology and Psychiatry, 57(3): 395-397.  
*ISI=6.68*
11. Ouyang M, Cheng H, Mishra V, Gong G, **Mosconi MW**, Sweeney JA, Peng Y, Huang H. (2016). Atypical age-dependent effects of autism on white matter microstructure in children 2-7 years. Human Brain Mapping, 37(2): 819-832.  
*ISI=6.21*
12. **Mosconi MW**, Wang Z, Tsai PT, Sweeney JA. (2015). The role of cerebellar circuitry alterations in the pathophysiology of autism spectrum disorders. Frontiers in Neuroscience: Systems Biology, 9:296.  
*ISI=3.70*
13. **Mosconi MW** & Sweeney JA. (2015). Sensorimotor dysfunctions as primary features of autism spectrum disorders. Science China: Life Sciences, 55(1), 1-8.  
*ISI=2.03*
14. Bishop JR, Najjar F, Rubin LH, Guter SJ, Owley T, **Mosconi MW**, Cook EH. (2015). Escitalopram pharmacogenetics: CYP2C19 relationships with dosing and clinical outcomes in Autism Spectrum Disorder. Pharmacogenetics and Genomics.

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*ISI=3.56*

15. Najjar F, Owley T, **Mosconi MW**, Jacob S, Hur K, Guter S, Sweeney J, Gibbons, R, Cook Jr E, Bishop, J: (2015). Pharmacogenetic study of serotonin transporter and 5HT2A genotypes in autism. Journal of Child and Adolescent Psychopharmacology, 25(6): 467-474.  
*ISI=3.38*
16. Wang Z, Magnon GC, White SP, Greene RK, Vaillancourt DE, **Mosconi MW**. (2015). Individuals with autism spectrum disorder show abnormalities during initial and subsequent phases of precision gripping. Journal of Neurophysiology, 113(7): 1989-2001.  
*ISI=3.45*
17. **Mosconi MW**, Mohanty S, Greene R, Cook EH, Vaillancourt DE, Sweeney JA. (2015). Feedforward and feedback motor control abnormalities implicate cerebellar dysfunctions in autism spectrum disorder. Journal of Neuroscience, 35(5), 2015-2025.  
*ISI=7.65*
18. Miller HL, Ragozzino ME, Cook EH, Sweeney JA, **Mosconi MW**. (2015). Cognitive set shifting deficits and their relationship to repetitive behaviors in autism spectrum disorder. Journal of Autism and Developmental Disorders, 45(3): 805-815.  
*ISI=4.36*
19. Schmitt LM, Cook EH, Sweeney JA, **Mosconi MW**. (2014). Saccadic eye movement abnormalities in autism spectrum disorder indicate dysfunctions in both cerebellum and brainstem. Molecular Autism, 5(1):47.  
*ISI=6.08*
20. Wang J, Barstein J, Ethridge L, **Mosconi MW**, Takarae Y, Sweeney JA. (2013). Resting state EEG abnormalities in autism spectrum disorders. Journal of Neurodevelopmental Disorders, 5(1):24.  
*ISI=3.85*
21. **Mosconi MW**, Luna B, Kay-Stacey M, Nowinski CV, Rubin LH, Scudder C, Minshew N, Sweeney JA. (2013). Saccade adaptation abnormalities implicate dysfunction of cerebellar-dependent learning mechanisms in autism spectrum disorders (ASD). PLOS One, 8(5), e63709.  
*ISI=4.02*
22. D’Cruz AM, Ragozzino ME, **Mosconi MW**, Cook EH, & Sweeney JA. (2013). Reduced behavioral flexibility in autism spectrum disorders is related to insistence on sameness. Neuropsychology, 27(2), 152-160.  
*ISI=4.13*
23. Davis LK, Maltman N, **Mosconi MW**, Macmillan C, Schmitt L, Francis SM, Jacob S, Sweeney JA, & Cook EH. (2012). Rare inherited *A2BPI* deletion in a proband with autism and developmental hemiparesis. American Journal of Medical Genetics, 158A(7), 1654-1661.

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*ISI=2.33*

24. \***Mosconi MW** & Sweeney JA. (2012). Cerebellar dysfunctions underlying core cognitive and sensorimotor deficits in autism spectrum disorder. Cerebellum, 11(3), 777-807.  
\* - Part of consensus paper "Pathological role of the cerebellum in autism" that was the most downloaded paper from Cerebellum during 2012.  
*ISI=2.90*
25. Maltbie E, Bhatt K, Paniagua B, Smith RG, Graves MM, **Mosconi MW**,... Styner MA. (2012). Asymmetric bias in user guided segmentations of brain structures. NeuroImage, 59, 1315-1323.  
*ISI=6.96*
26. D'Cruz AM, **Mosconi MW**, Ragozzino ME, Pavuluri M, & Sweeney JA. (2011). Human reversal learning under conditions of certain versus uncertain outcomes. NeuroImage, 56, 315-322.  
*ISI=6.96*
27. **Mosconi MW**, Kay M, D'Cruz AM, Guter S, Kapur K, Macmillan C, Stanford LD, & Sweeney JA. (2010). Neurobehavioral abnormalities in first-degree relatives of individuals with autism. JAMA Psychiatry, 67, 830-840.  
*ISI=14.40*
28. D'Cruz AM, **Mosconi MW**, Steele S, Rubin L, Khine T, & Sweeney JA. (2009). Lateralized asymmetries in implicit learning of visuospatial pattern sequencing in individuals with autism. Biological Psychiatry, 66, 393-397.  
*ISI=10.35*
29. **Mosconi MW**, Kay M, Seidenfeld A, Guter S, Stanford L, & Sweeney JA. (2009). Impaired cognitive control is associated with higher-order repetitive behaviors in autism spectrum disorders. Psychological Medicine, 39, 1555-1566.  
*ISI=6.49*
30. **Mosconi MW**, Hazlett HC, Poe M, Gerig G, Gimpel RS, & Piven J. (2009). A longitudinal study of amygdala volume and joint attention in 2-4 year old children with autism. JAMA Psychiatry, 66, 509-516.  
*ISI=14.40*
31. **Mosconi MW**, Mesibov G, Reznick SJ, & Piven J. (2009). The Social Orienting Continuum and Response Scale (SOC-RS): a quantitative measure for preschool-aged children. Journal of Autism and Developmental Disorders, 39, 242-250.  
*ISI=4.36*
32. **Mosconi MW**, Nelson L, & Hooper SR. (2008). Confirmatory factor analysis of the NEPSY for younger and older school-aged children. Psychological Reports, 102, 861-866.  
*ISI=0.44*

33. Chung K, Reavis SB, **Mosconi MW**, Drewry J, Matthews JT, & Tasse M. (2007). The development of a peer-mediated social skills training for high-functioning children with autism. Research in Developmental Disabilities, 28, 423-436.  
*ISI=2.87*
34. **Mosconi MW**, Zwaigenbaum L, & Piven J. (2006). Structural MRI in autism: findings and future directions. Clinical Neuroscience Research, 6, 135-144.  
*ISI=1.42*
35. **Mosconi MW**, Mack PB, McCarthy G, & Pelphrey KA. (2005). Taking an “Intentional Stance” on eye-gaze shifts: A functional neuroimaging study of social perception in children. NeuroImage, 27, 247-252.  
*ISI=6.96*

**Book Chapters:**

1. **Mosconi MW**, Takarae Y, & Sweeney JA. (2011). Motor impairments and dyspraxia in autism. In DG. Amaral, G Dawson, & DH Geschwind, (Eds.). Autism Spectrum Disorders. Oxford University Press, Inc.: New York, NY.
2. **Mosconi MW**, Merkler E, & Mesibov G. (2004). Social skills in autism. In G Mesibov & E Schopler (Eds.) TEACCH approach to working with students with autism spectrum disorders. Kluwer Academic Publishers: Dordrecht, Netherlands.

**Published Manuals:**

1. **Mosconi MW**, Fletcher-Watson S, & McConachie H. Handbook for the Social Orienting Continuum and Response Scale (SOC-RS) assessment of preschool-aged children with autism: <http://research.ncl.ac.uk/cargo-ne/SOCRShandbook12EX.pdf>

**Peer-reviewed Academic Presentations:**

1. Wang Z, Khemani P, **Mosconi MW\***. Postural control deficits in aging Fragile X mental retardation 1 (FMR1) gene premutation carriers. Society for Neuroscience (SfN), (2017, November). Washington DC.  
**\* Primary mentor for first author on this study**
2. Bojanek E, Schmitt LM, White SP, Sweeney JA, **Mosconi MW\***. Behavioral response inhibition deficits in children with autism spectrum disorder and their parents. International Meeting for Autism Research (IMFAR), (2017, May). San Francisco, CA.  
**\* Primary mentor for first author on this study**
3. Schmitt LM, Ragozzino ME, Cook EH, Sweeney JA, **Mosconi MW\***. The impairment and dysmaturation of inhibitory control processes and the strategies that support them in ASD. International Meeting for Autism Research (IMFAR), (2017, May). San Francisco, CA.  
**\* Primary mentor for first author on this study**
4. **Mosconi MW**, Schmitt LM, White SP, Sweeney JA. Brain system abnormalities associated with reduced control of sustained and repetitive motor behaviors. National Conference in Clinical Child and Adolescent Psychology (NCCCAP), (2016, September). Lawrence, KS.

5. Wang Z, Hallac R, Conroy KC, White SP, Kane AA, Collinsworth AL, **Mosconi MW\***. Postural orientation and equilibrium are manifested in autism spectrum disorder (ASD). National Conference in Clinical Child and Adolescent Psychology (NCCCAP), (2016, September). Lawrence, KS.  
**\* Primary mentor for first author on this study**
6. Schmitt LM, White SP, Sweeney JA, **Mosconi MW\***. Sensorimotor Abnormalities in Individuals with Autism Spectrum Disorder and Their Biological Parents. National Conference in Clinical Child and Adolescent Psychology, (2016, September). Lawrence, KS.  
**\* Primary mentor for first author on this study**
7. DeStefano L, Wang J, White SP, **Mosconi MW**, Sweeney JA, Ethridge LE. Auditory neural oscillatory synchronization abnormalities across the gamma frequency range in autism spectrum disorder. Society for Psychophysiological Research, (2016, November). Minneapolis, MN.
8. Ethridge LE, White SP, **Mosconi MW**, Wang J, Erickson CA, Byerly MJ, Sweeney JA. Neural synchronization deficits linked to cortical hyper-excitability and auditory sensitivity in Fragile X Syndrome. Society for Psychophysiological Research, (2016, November). Minneapolis, MN.
9. Kwon M, Mohanty S, Conroy KC, **Mosconi MW\***. Increased force variability in autism reflects reduced modulation of motor neuron pool beta oscillations. International Meeting for Autism Research (IMFAR), (2016, May). Baltimore, MD.  
**\* Primary mentor for first author on this study**
10. Wang Z, Hallac R, Conroy KC, White SP, Kane AA, Collinsworth AL, **Mosconi MW\***. Postural control mechanisms underlying reduced stability in autism spectrum disorder (ASD). International Meeting for Autism Research (IMFAR), (2016, May). Baltimore, MD.  
**\* Primary mentor for first author on this study**
11. Schmitt LM, White SP, Conroy K, Sweeney JA, **Mosconi MW\***. Sensorimotor abnormalities in biological mothers and fathers of individuals with ASD. International Meeting for Autism Research (IMFAR), (2016, May). Baltimore, MD.  
**\* Primary mentor for first author on this study**
12. **Mosconi MW**, Schmitt LM, White SP, Sweeney JA. Brain system abnormalities associated with reduced control of sustained and repetitive motor behaviors in autism. International Meeting for Autism Research (IMFAR), (2016, May). Baltimore, MD.
13. **Mosconi MW**, Schmitt LM, White SP, Conroy K, Sweeney JA. Familiarity of sensorimotor alterations in autism spectrum disorder. American College of Neuropsychopharmacology (ACNP), (2015, December). Hollywood, FL.
14. Ethridge LE, White SP, **Mosconi MW**, Wang J, Byerly MJ, Sweeney JA. Sensory processing abnormalities, ASD features, and modulation of auditory evoked potentials

- in Fragile X Syndrome. International Meeting for Autism Research (IMFAR), (2015, May). Salt Lake City, UT.
15. Wang Z, Hallac R, Conroy KA, Greene RK, White SP, Sweeney JA, **Mosconi MW\***. Sensory feedback mechanisms underlying postural control abnormalities in individuals with autism spectrum disorder (ASD). International Meeting for Autism Research (IMFAR), (2015, May). Salt Lake City, UT.  
**\* Primary mentor for first author on this study**
  16. Mohanty S, Neely KA, Schmitt LM, Wang Z, Vaillancourt DE, Sweeney JA, **Mosconi MW\***. Precision grip control with and without visual feedback in autism spectrum disorder. International Meeting for Autism Research (IMFAR), (2015, May). Salt Lake City, UT.  
**\* Primary mentor for first author on this study**
  17. **Mosconi MW**, Vaillancourt DE, Sweeney JA. Cerebellar alterations underlying visuomotor deficits in autism. International Meeting for Autism Research (IMFAR), (2015, May). Salt Lake City, UT.
  18. Schmitt LM, White SP, Conroy K, Sweeney JA, **Mosconi MW\***. Eye movement abnormalities in individuals with autism and their unaffected biological parents. International Meeting for Autism Research (IMFAR), (2015, May). Salt Lake City, UT.  
**\* Primary mentor for first author on this study**
  19. **Mosconi MW**, Vaillancourt DE, Sweeney JA. Cortico-cerebellar dysfunctions associated with visuomotor abnormalities in autism spectrum disorder vary according to the quality of visual feedback. American College of Neuropsychopharmacology (ACNP), (2014, December). Phoenix, AZ.
  20. **Mosconi MW**, Vaillancourt DE, Coombes SA, Sweeney JA. Cortical-cerebellar abnormalities underlying visuomotor control deficits in autism spectrum disorder. Society of Neuroscience (SfN); (2014, November). Washington, DC.
  21. Wang Z, Magnon GC, Greene RK, Sweeney JA, **Mosconi MW\***. Predictive and reactive precision grip force control in individuals with autism spectrum disorder. Society of Neuroscience (SfN); (2014, November). Washington, DC.  
**\* Primary mentor for first author on this study**
  22. Schmitt LM, **Mosconi MW\***, Ragozzino ME, Cook EH, Sweeney JA. Neurocognitive strategies supporting behavioral response inhibition in autism spectrum disorder. International Meeting for Autism Research (IMFAR), (2014, May). Atlanta, GA.  
**\* Primary mentor for first author on this study**
  23. Ouyang M, Cheng H, Gong G, **Mosconi MW**, Sweeney JA, Peng Y, Huang H. Abnormal WM microstructural trajectories of autistic children from 2 to 7 years of age. The International Society for Magnetic Resonance in Medicine (ISMRM), (2014, May). Milan, ITALY.

24. **Mosconi MW**, Mohanty S, Schmitt L, Greene R, Vaillancourt DE, Sweeney JA. Feedforward and feedback control abnormalities during precision grasping implicate cerebellar dysfunction in autism spectrum disorder. American College of Neuropsychopharmacology (ACNP), (2013, December). Hollywood, FL.  
- **Abstract selected for Data Blitz session for innovative research AND audio presentation**
25. **Mosconi MW**, Vaillancourt DE, Mohanty S, Schmitt L, Greene RK, Sweeney JA. Sensorimotor abnormalities and their relationship to core social-communication features in autism spectrum disorder (ASD). Society for Neuroscience (SfN), (2013, November). San Diego, CA.
26. Schmitt LM, **Mosconi MW\***, Sweeney JA. Eye movement abnormalities in autism spectrum disorder implicate sensorimotor and cognitive control brain systems. Society for Neuroscience (SfN), (2013, November), San Diego, CA.  
- **Abstract selected for inclusion in SFN's 2013 "Hot Topics" book**  
\* **Primary mentor for first author on this study**
27. Mohanty S, Vaillancourt DE, Coombes SA, Schmitt LM, Sweeney JA, **Mosconi MW\***. Atypical brain functions underlying sensorimotor impairments in autism spectrum disorder. Society for Neuroscience (SfN), (2013, November), San Diego, CA.  
\* **Primary mentor for first author on this study**
28. Miller HL, **Mosconi MW**, Ragozzino ME, Cook EH, Sweeney JA. Selective set-shifting impairments relate to repetitive behaviors in ASD. Texas Autism Research Conference (TARRC), (2013, July). San Marcos, TX.
29. Greene RK, **Mosconi MW\***, Ragozzino ME, Schmitt L, Cook EH, Sweeney JA. Inhibitory control deficits in Autism Spectrum Disorders (ASD). Texas Autism Research Conference (TARRC), (2013, July). San Marcos, TX.  
\* **Primary mentor for first author on this study**
30. Schmitt LM, **Mosconi MW\***, Cook EH, Sweeney JA. Decreased control of eye movement accuracy in individuals with autism spectrum disorder. Texas Autism Research Conference (TARRC), (2013, July), San Marcos, TX.  
\* **Primary mentor for first author on this study**
31. **Mosconi MW**, Ragozzino ME, Schmitt LM, Cook EH, & Sweeney JA. Neurocognitive deficits underlying insistence on sameness in autism spectrum disorders. International Meeting for Autism Research (IMFAR), (2013, May). San Sebastian, SPAIN.
32. **Mosconi MW**, Ragozzino ME, Schmitt L, Cook EH, & Sweeney JA. Inhibitory control deficits in Autism Spectrum Disorders (ASD). American College of Neuropsychopharmacology (ACNP), (2012, December). Hollywood, FL.
33. **Mosconi MW**. Sensory and motor control in individuals with autism spectrum disorder (ASD). Texas Autism Research Conference, (2012, July). Austin, TX.

34. **Mosconi MW**, Mohanty S, Schmitt L, Cook EH, Vaillancourt DE, & Sweeney JA. Manual motor control impairments in individuals with autism. Society of Biological Psychiatry, (2012, May). Philadelphia, PA.
35. Barstein J, **Mosconi MW\***...Sweeney JA. Saccade adaptation impairments in autism. Society for Biological Psychiatry, (2012, May). Philadelphia, PA.  
\* **Primary mentor for first author on this study**
36. **Mosconi MW**. Visuomotor impairment and underlying cortico-cerebellar dysfunctions in individuals with autism. International Meeting for Autism Research (IMFAR), (2012, May). Toronto, CN.
37. **Mosconi MW**, Mohanty S, Schmitt L, Cook EH, Vaillancourt DE, & Sweeney JA. Reduced sensorimotor control reflects motor but not sensory abnormalities in autism spectrum disorders. Roche-Nature Translational Neuroscience Symposium, (2012, April). Lucerne, Switzerland.
38. **Mosconi MW**, Mohanty S, Schmitt L, Cook EH, Vaillancourt DE, & Sweeney JA. Motor and sensorimotor functioning in individuals with autism. American College of Neuropsychopharmacology (ACNP), (2011, December). Honolulu, HI.
39. **Mosconi MW**, Coombes SA, D'Cruz AM, Schmitt L, Shrestha S, Vaillancourt DE, & Sweeney JA. Atypical premotor, parietal, and cerebellar functioning underlies sensorimotor impairment in autism. International Meeting for Autism Research (IMFAR), (2011, May). San Diego, CA.
40. D'Cruz AM, **Mosconi MW**, Schmitt L, Shrestha S, Cook EH, Ragozzino ME, & Sweeney JA. Behavioral flexibility impairments in autism spectrum disorders are related to symptoms of insistence on sameness. International Meeting for Autism Research (IMFAR), (2011, May). San Diego, CA.
41. Schmitt L, **Mosconi MW**, Ragozzino ME, Cook EH, & Sweeney JA. Atypical maturation of manual motor and oculomotor response inhibition in autism. International Meeting for Autism Research (IMFAR), (2011, May). San Diego, CA.
42. Schmitt L, **Mosconi MW**, Reilly J, D'Cruz AM, Cook EH, & Sweeney JA. Response inhibition deficits in manual and oculomotor systems in autism spectrum disorders (ASD). Midwestern Psychological Association (MPA), (2011, March). Chicago, IL.
43. **Mosconi MW**, Coombes SA, Ankeny L, D'Cruz AM, Zhang Z, Schmitt L, Khine T, Vaillancourt DE, & Sweeney JA. Atypical brain function underlying sensorimotor alterations in autism. American College of Neuropsychopharmacology (ACNP), (2010, December). Miami, FL.
44. D'Cruz AM, **Mosconi MW**, Ragozzino ME, Pavuluri M, & Sweeney JA. Human reversal learning under conditions of certain versus uncertain outcomes. Society for Neuroscience, (2010, October). San Diego, CA.

45. **Mosconi MW**, Ankeny LD, Ragozzino ME, & Sweeney JA. Response inhibition in manual and oculomotor systems in ASD. International Meeting for Autism Research (IMFAR), (2010, May). Philadelphia, PA.
46. D’Cruz AM, **Mosconi MW**, Ragozzino ME, Ankeny LD, & Sweeney JA. Functional neuroimaging of cognitive flexibility in autism. International Meeting for Autism Research (IMFAR), (2010, May). Philadelphia, PA.
47. **Mosconi MW**, Kay M, D’Cruz AM, Ankeny L, Guter S, Stanford LD, & Sweeney JA. Eye movement abnormalities in first-degree relatives of individuals with autism. American College of Neuropsychopharmacology, (2009, December). Hollywood, FL.
48. **Mosconi MW**, Kay M, D’Cruz AM, Ankeny L, Guter S, Stanford LD, & Sweeney JA. Eye movement abnormalities in parents and siblings of individuals with autism. Society for Neuroscience, (2009, October). Chicago, IL.
49. Ankeny L, **Mosconi MW**, & Sweeney JA. Response inhibition in manual and oculomotor systems. Society for Neuroscience, (2009, October). Chicago, IL.
50. **Mosconi MW**, D’Cruz AM, Ankeny L, Kay M, Stanford LD, & Sweeney JA. Pro- and anti- saccade abnormalities in first-degree relatives of individuals with autism. International Meeting for Autism Research (IMFAR), (2009, May). Chicago, IL.
51. D’Cruz AM, **Mosconi MW**, Ankeny L, Kay M, Guter S, Stanford LD, & Sweeney JA. Pursuit eye movement abnormalities in first-degree relatives of individuals with autism. International Meeting for Autism Research (IMFAR), (2009, May). Chicago, IL.
52. **Mosconi MW**, Sweeney JA, Kapur K, D’Cruz AM, Ankeny L, Kay M, & Stanford LD. Procedural learning abnormalities in first-degree relatives of individuals with autism. International Meeting for Autism Research (IMFAR), (2009, May). Chicago, IL.
53. Stanford LD, **Mosconi MW**, D’Cruz AM, Ankeny L, Kay M, & Sweeney JA. Neuropsychological functioning in first-degree relatives of individuals with autism. International Meeting for Autism Research (IMFAR), (2009, May). Chicago, IL.
54. **Mosconi MW**, D’Cruz AM, Ankeny L, Kay M, Guter S, Stanford LD, & Sweeney JA. Eye movement abnormalities in first-degree relatives of individuals with autism. Neural Control of Movement (NCM), (2009, June), Honolulu, HI.
55. **Mosconi MW**, Kay M, D’Cruz AM, Seidenfeld A, Guter S, Stanford LD, & Sweeney JA. Frontostriatal functions examined with oculomotor tasks are associated with restricted, repetitive behaviors in autism. International Meeting for Autism Research (IMFAR), (2008, May). London, England.
56. D’Cruz AM, **Mosconi MW**, Nowinski CV, Kay M, Seidenfeld A, Rubin LH, Scudder C, Luna B, Minshew NJ, & Sweeney JA. Saccadic adaptation in autism. International Meeting for Autism Research (IMFAR), (2008, May). London, England.

57. **Mosconi MW**, Cody-Hazlett H, Mesibov G, Poe M, & Piven J. Social orienting and amygdala development in the first years of life in autism. International Meeting for Autism Research (IMFAR), (2007, May). Seattle, WA.
58. Styner M, Smith RG, Graves MM, **Mosconi MW**, Peterson S, White S, Blocher J, El-Sayed M, Hazlett HC. Asymmetric Bias in User Guided Segmentations of Brain Structures. SPIE Medical Imaging Conference. (2007, February). San Diego, CA.
59. **Mosconi M**, Poe M, & Piven J. A longitudinal study of the relationship between amygdala volume and social-emotional behavior in preschoolers with autism. 22<sup>nd</sup> Annual Radiology Research Symposium at the University of North Carolina-Chapel Hill, (2006, May). Chapel Hill, NC.
60. Carter EJ, **Mosconi MW**, & Pelphrey KA. Neural basis of biological motion perception in children with and without autism. Society for Neuroscience 35<sup>th</sup> Annual Meeting. (2005, November). Washington, D.C.
61. **Mosconi M**, Hazlett HC, Joshi S, Peterson S, & Piven J. Amygdala and hippocampus enlargement in young children with autism. International Meeting for Autism Research (IMFAR), (2005, April). Boston, MA.
62. **Mosconi M**, Pelphrey KA, Cody-Hazlett H, Reznick SJ, & Piven J. Face processing and social perception in typically developing preschoolers. Society for Research of Child Development, (2005, April). Atlanta, GA.
63. **Mosconi M** & Mesibov G. Advanced theory of mind processing in typically developing children. American Psychological Association, (2004, July). Honolulu, HI.
64. Chung K, Reavis SB, **Mosconi M**, Drewry J, Matthews JT, & Tasse M. The development of a peer- mediated social skills training for high-functioning children with autism. Applied Behavior Analysis, (2004, May). Boston, MA.
65. **Mosconi M**, Chung K, Reavis SB, Drewry J, Matthews JT, & Tasse M. Peer-mediated social skills training for children with high-functioning autism. International Meeting for Autism Research, (2004, May). Sacramento, CA.

**Invited Talks:**

1. Sensorimotor and cognitive intermediate phenotypes of autism. University of Kansas Neuroscience Department Lecture Series. Lawrence, Kansas (May, 2017).
2. Biotypes of autism spectrum disorder. University of Kansas Cognitive and Brain Sciences Seminar. Lawrence, Kansas (April, 2017).
3. Understanding autism: stories of politics, fads and the brain. University of Kansas Nu Rho Psi Honor's Society Keynote. Lawrence, Kansas (November, 2016)

4. Motor and sensory disturbances and their brain bases in autism spectrum disorder. University of Kansas Child Language Program Professional Seminar Series. Lawrence, Kansas (October, 2016)
5. What we think we think about thinking in Phelan-McDermid Syndrome. First Annual Phelan-McDermid Syndrome National Meeting (McPosium). Orlando, FL (2016, July).
6. Characterizing the development of fundamental sensorimotor abilities and underlying brain systems in autism spectrum disorder. Department of Psychiatry Grand Rounds - Vanderbilt University. Nashville, TN (2016, April).
7. Moving towards more effective treatments for autism spectrum disorders. Annual Retreat for the University of Kansas Medical Center Department of Pediatrics. Kansas City, KS (2015, November).
8. Understanding the neurobiology of autism spectrum disorders through clinical research. Beyond the Diagnosis: Autism Across the Life Span. Kansas City, KS (2015, October).
9. Clinical and translational approaches for understanding Phelan-McDermid Syndrome. Texas-Louisiana Phelan-McDermid Syndrome Conference. Houston, TX (2015, June).
10. Advancing care through research: How studies of brain and motor development in autism may lead to earlier diagnosis and more effective treatments. Friends of the Center for Autism and Developmental Disabilities Inaugural Keynote Lecture. Dallas, TX (2015, March).
11. Translational approaches for identifying neural mechanisms in autism related disorders. University of Texas Southwestern Clinical Research Engagement Workgroup (CREW) Lunch Series. Dallas, TX (2015, January).
12. Cerebellar and sensorimotor development in autism. University of Minnesota Center for Cognitive Science (CCS) Colloquium Series. Minneapolis, MN (2014, September).
13. Profiles of sensorimotor impairments in autism spectrum disorder. University of Minnesota Center for Neurobehavioral Development (CNBD) Colloquium Series. Minneapolis, MN (2014, September).
14. Neuroscience and early detection of autism spectrum disorder. Psychiatry Continuing Education Program: Brain Stories, the Science Behind Prevention, Early Detection, and Effective Intervention for Mental Illness. Department of Psychiatry, University of Texas Southwestern. Dallas, TX (2014, October).
15. Sensorimotor and cerebellar abnormalities in Phelan-McDermid Syndrome. The 14<sup>th</sup> Annual Phelan-McDermid Syndrome Foundation Conference. Orlando, FL (2014, July).

16. Examining the effects of premutations and full mutations of the FMR1 gene on behavior and brain function. The Center for Autism and Developmental Disabilities (CADD) Annual Fragile X Day. UT Southwestern and Children's Medical Center, Dallas, TX (2014, January).
17. Fragile Sensorimotor disturbances and their neural underpinnings in autism. Grand Rounds, Department of Applied Physiology and Kinesiology. University of Florida. Gainesville, FL (2013, November).
18. Insights into pathophysiological mechanisms associated with autism spectrum disorder (ASD). Academic Grand Rounds, UT Southwestern Department of Psychiatry. Dallas, TX (2013, June).
19. Many faces of autism spectrum disorder (ASD). Psychiatry Grand Rounds, University of Texas Southwestern. Dallas, TX (2013, January).
20. Movement abnormalities in autism and related neurodevelopmental disorders. Callier Center Seminars in Speech, Language and Hearing, University of Texas Dallas. Dallas, TX (2012, October).
21. Autism spectrum disorder. National Alliance for Mental Illness (NAMI) Dallas "Ask the Doctor" monthly meeting. Dallas, TX (2012, July).
22. Neurocognitive and sensorimotor abnormalities in autism spectrum disorders. Clinical Psychology Didactic Series, University of Texas Southwestern. Dallas, TX (2012, March)
23. Motor control impairment and underlying cerebellar dysmaturation in autism spectrum disorders. Center for Brain Health Frontiers Lunch Series, University of Texas Dallas. Dallas, TX (2012, February).
24. Cognitive and motor abnormalities in autism spectrum disorders. Department of Psychiatry Faculty Retreat, University of Texas Southwestern. Dallas, TX (2011, September).
25. Sensorimotor phenotypes associated with autism spectrum disorder. New Faculty Research Forum, University of Texas Southwestern. Dallas, TX (2011, September).
26. Cognitive and sensorimotor brain dysfunctions associated with autism. Behavioral Neurosciences Seminar, University of Illinois at Chicago. Chicago, IL (2010, November).
27. How does research on autism affect my family? Chicagoland Autism Connection. Chicago, IL (2010, November).
28. Sensorimotor phenotypes and pathophysiological mechanisms in autism spectrum disorder. Grand Rounds, Advocate Christ Medical Center. Chicago, IL (2010, October).

29. Functional neuroimaging of cognitive flexibility in autism. Department of Psychiatry Research Extravaganza, University of Illinois at Chicago. Chicago, IL (2010, September).
30. Eye movement abnormalities in first-degree relatives of individuals with autism. Department of Psychiatry Research Extravaganza, University of Illinois at Chicago. Chicago, IL (2010, September).
31. Impairment at the interface of cognitive and emotion processing in autism spectrum disorders. Department of Psychiatry Research Extravaganza, University of Illinois at Chicago. Chicago, IL (2010, September).
32. Eye movement abnormalities in individuals with autism and their unaffected family members. Psychiatry Grand Rounds, Peking University. Peking, CHINA (2010, April).
33. Diagnosis and evaluation of autism spectrum disorders. Chinese Academy of Sciences meeting on the epidemiology, assessment, neurobiology and genetics of autism. Beijing, CHINA (2010, March).
34. Lateralized response timing deficits in autism. Autism2009, AWARES International Conference. (2009, November).
35. Neurobiologic alterations associated with social deficits, repetitive behaviors, and motor dysfunction in autism spectrum disorder. Psychiatry Grand Rounds at Illinois Masonic Advocate Hospital. Chicago, IL (2009, December).
36. Oculomotor phenotypes in probands with autism and their first-degree relatives. Behavioral Neurosciences Seminar, University of Illinois at Chicago. Chicago, IL (2008, December).

**Academic Courses:**

Graduate and Residency Courses:

- Biological Bases of Behavior – Clinical Child Psychology Doctoral Program (Spring, 2017)
- Clinical Child Psychology Practicum – Clinical Child Psychology Program (CCPP) Doctoral Program (Fall, 2016)
- Assessing Autism Spectrum Disorder (ASD) – Clinical Child Psychology Program (CCPP) Graduate Seminar (Spring, 2016)
- Clinical Psychology Doctoral Program lecture on Advanced Psychopathology – Autism Spectrum Disorder (2014)
- Psychiatry PGY Brain Sciences – Neurodevelopmental Disorders lecture (2013-Present)
- Psychiatry PGY Journal Club (2012-Present)
- Clinical Neuropsychology Didactic Series – Neuroanatomy (2009-2011)
- Psychology Doctoral Program lecture on Clinical Psychopharmacology – Childhood Disorders (2010)
- Psychiatry PGY Neuropsychiatric Assessment – Autism Spectrum Disorders (2009-2010)
- Clinical Neuropsychology Didactic Series Applied Neuropsychology Review – Assessment of Childhood Disorders (2009-2011)

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 Functional MRI Methods and Analysis Seminar Series (2007-2009)
Undergraduate Course Instructor:

Behavioral Disorders (2003-2004)

Undergraduate lecture for course on Psychiatric Disorders – Autism (2004-2005)

**Mentorship/Student Training:** \* - *Primary mentor*Postdoctoral Fellows:

Lauren Schmitt, PhD in Clinical Psychology (2016-Present)\*

Minhyuk Kwon, PhD in Applied Physiology and Kinesiology (2015-2016)\*

Zheng Wang, PhD in Kinesiology (2013-Present)\*

Suman Mohanty, PhD in Bioengineering (2013-2015)\*

Haylie Miller, PhD in Cognitive Psychology (2012-Present)

Michele Ocen, PhD in Counseling Psychology (2014-2015)

Lauren Ethridge, PhD in Neuroscience (2012-2014)

Jun Wang, PhD in Neuroscience (2011-2012)

Graduate Students/Dissertation and Master's Thesis Committees:Erin Bojanek, *Clinical Child Psychology* (2016-Present)\* - Graduate AdvisorAndrea Garcia, *Clinical Child Psychology* (2016-Present)\* - Task Advisor, Dissertation AdvisorLauren Schmitt, *Clinical Psychology* (2012-2016)\* - Dissertation AdvisorMinhui Ouyang, *Bioengineering* (2014-2015) - Dissertation Committee MemberSuman Mohanty, *Bioengineering* (2008-2011)\* - Dissertation AdvisorAnna-Maria D'Cruz, *Clinical Psychology* (2008-2011) - Dissertation Committee MemberKirsteen Luutgu, *Bioengineering* (2009-2010) - Dissertation Committee MemberArwen Marker, *Clinical Child Psychology* (2016) – Master's Thesis Committee MemberOther Mentoring Activities:Clinical Research Mentor: Daniel Araujo, *Mechanisms of Disease and Translational Science Immersion in Clinical Research* (2014)Clinical Research Mentor: Marissa Co, *Mechanisms of Disease and Translational Science Immersion in Clinical Research* (2014)

Volunteer Mentor for International Society for Autism Research (INSAR) Early Career Development Preconference Workshop (2014)

Clinical Supervisor for **five** Pediatric Clinical Neuropsychology externs (2008-2009)Co-Mentor for **two** Undergraduate Honors Theses in Psychology (2005-2006)Research Mentor for **four** Psychology undergraduate research projects (2003-2006)**Grant Panel Reviewer:**

Autism Speaks, Basic and Clinical Science Awards (2009)

Autism Speaks, Meixner Postdoctoral Fellowship in Translational Research (2014-2015)

Independent Scientific Merit Review Panel for the Governor's Council for Medical Research and Treatment of Autism, New Jersey Autism Centers of Excellence (2013-2015)

NIH Director's Early Independence Award (DP5) Special Review Panel (2015)

**Scientific Panel Reviewer:**

Member, International Society for Autism Research Awards Committee (2016-2017)

Chair, *Repetitive Behaviors and Interests* section of the International Meeting for Autism Research (IMFAR) Program Committee (2015 and 2016)  
Texas Autism Research Conference Scientific Review Team (2012-2013)  
International Meeting for Autism Research (IMFAR) Program Committee (2008-2014)

**Editorial Board Member**

Journal of Autism and Developmental Disorders (JADD)  
Research in Autism Spectrum Disorders (RASD)  
Current Developmental Disorders Reports

**Ad hoc journal reviewer for:**

American Journal of Psychiatry	Journal of Autism and Developmental Disorders (JADD)
Archives of General Psychiatry (JAMA Psychiatry)	Journal of Child Psychology and Psychiatry (JCPP)
Autism	Journal of Cognitive Development
Autism Research	Journal of Cognitive Neuroscience
Behavioral Brain Research	Journal of Motor Behavior
Behavioral Sciences	Journal of Neurodevelopmental Disorders
Biological Psychiatry	Journal of Neuroscience
Brain	Motor Control
Brain Research Bulletin	Molecular Autism
Cerebral Cortex	Quarterly Journal of Experimental Psychology
Child Neuropsychology	Research in Autism Spectrum Disorders
Developmental Science	Science China: Life Sciences
European Journal of Neuroscience	Strabismus
Journal of Abnormal Psychology	
Journal of the American Academy of Child and Adolescent Psychiatry (JAACAP)	

**Professional Memberships:**

International Society for Autism Research (INSAR)  
Society for Neuroscience (SfN)

**Professional Service:**

2017 Animal Care Unit Veterinarian Search Committee – University of Kansas  
2017 External Promotion and Tenure Reviewer – University of Texas Southwestern Medical Center  
2016-2017 Merit Review Committee, Department of Psychology, University of Kansas  
2016 External Promotion and Tenure Review – American University  
2016 Awards Committee Member – International Society for Autism Research  
2016- Chair, Autism Science Working Group at the University of Kansas  
2016- Co-Director, Co-Founder, Movement Science and Motor Control Research Consortium at the University of Kansas  
2015- Director and Co-Founder, Neurodevelopmental Disorder Seminar Series at the University of Kansas  
2015 Clinical Child Psychology Program Admissions Committee  
2015 Chair, Neurodevelopmental Disorders Division of the Neurosciences Task Force for the Kansas City Life Sciences Institute

- 2015- Member, Executive Board of the Kansas Center for Autism Research and Training (K-CART)
- 2015 Co-Chair, Annual Phelan-McDermid Syndrome Meeting
- 2014- National Fragile X Association Clinical Trials Committee
- 2014, 2015 Mentor, International Meeting for Autism Research (IMFAR) Trainee Program
- 2014- Autism awareness outreach program for high school students in Dallas-Ft. Worth
- 2013- Co-Director, Center for Autism and Developmental Disabilities Postdoctoral Fellowship in Neurodevelopmental Disorders Research
- 2012- Co-Director, UT Southwestern Psychiatry Resident Training Brain Sciences Learning Curriculum Committee
- 2012- Member, UT Southwestern Clinical Psychology Research Training Committee
- 2012- Faculty Moderator, Psychiatry PGY Journal Club
- 2011-2012: Children's Medical Center Child Outpatient/Autism Postdoctoral Fellowship Selection Committee
- 2011-2013: UT Southwestern Autism Center Psychologist and Faculty Recruitment Committees
- 2011-2013: UT Southwestern Autism Center Postdoctoral Selection Committee

## RESEARCH FUNDING

### Ongoing Research Support:

R01 MH112734-01 Mosconi (PI) 07/01/17-05/31/22

Motor abnormalities and functional brain mechanisms in autism spectrum disorder

This five-year R01 study will identify the distinct neural processes underlying rapid, repetitive sensorimotor abnormalities and deficits in controlling continuous motor output. Novel functional magnetic resonance imaging (fMRI) and motor physiology tests will be conducted to examine cerebellar-cortical and striatal-cortical brain function and their relation to sensorimotor abnormalities in ASD from late childhood to adulthood.

**Role:** PI

**TDC:** \$1,824,781

P30 HD002528 Colombo (PI) 07/01/15-06/30/20

Kansas Intellectual and Developmental Disabilities Research Center (KIDDRC)

The Kansas Intellectual and Developmental Disabilities Research Center (KIDDRC), now in its 44th year, provides Core support for generating effective biobehavioral interventions aimed at the causes, prevention, and treatment of intellectual and developmental disabilities and related secondary conditions, and in delineating basic knowledge of the underlying biology of typical and atypical development.

**Role:** Co-Investigator

**TDC:** \$1,456,363

Phelan-McDermid Syndrome Foundation Mosconi (PI) 01/01/16-12/31/16

Auditory and visual evoked potentials in Phelan-McDermid Syndrome

The goal of this award is to characterize sensory evoked neurophysiological alterations in individuals with Phelan-McDermid Syndrome (PMS).

**Role:** PI

**TDC:** \$150,000

Kansas Center for Autism Research and Training Research Investment Council Strategic Initiative Grant (Mosconi) 08/18/15-08/17/18

This three year award was provided to the PI to support salary and research costs associated with starting the Neurodevelopmental Disorders Research Lab at the University of Kansas. Allowable costs include PI salary, research related expenses (e.g., equipment, MRI costs), travel, and postdoctoral and student assistant salaries.

**Role:** PI

**TDC:** \$750,000

Frontiers Pilot Research Award Butler (PI) 06/01/17-05/30/18  
Clinical and Genomic Characterization of the 15q11.2 BP1-BP2 Microdeletion Syndrome

This one-year pilot award will support phenotyping and genetic characterization of children with 15q11.2 BP1-BP2 microdeletions. Similar phenotyping and genetic characterization will be performed on the parents of these probands who are not clinically affected, but for whom the 15q11.2 microdeletion is detected.

**Role:** Co-Investigator

**TDC:** \$20,000

U54 NS092090 Sahin (PD) 01/01/14-08/31/19  
Rare Diseases Clinical Research Network: Developmental Synaptopathies Consortium

The aim of this five year project is to clinically characterize three rare genetic syndromes associated with autism spectrum disorder (ASD), including Phelan-McDermid Syndrome, PTEN mutation and Tuberous Sclerosis. The study's long-term goal is to identify biomarkers that can be used to develop and validate new therapies for these rare disorders and possibly ASD more broadly.

**Role:** Consultant (Served as Site PI prior to transferring institutions)

**TDC:** \$2,171,003

Novartis PI-Initiated Award Mosconi (PI) 08/01/15-06/30/17  
Neurophysiological biomarkers associated with Phelan-McDermid Syndrome

This PI-initiated award aims to identify clinical biomarkers associated with Phelan-McDermid Syndrome (PMS) – a rare genetic condition caused by loss-of-function deletions/mutations of the SHANK3 gene on chromosome 22q13. Novel and translational EEG and motor physiology studies are planned to identify neurophysiological mechanisms associated with PMS that can be used as endpoints in future clinical trials.

**Role:** Consultant (Served as PI prior to transferring institutions)

**TDC:** \$225,200

Phelan-McDermid Syndrome Foundation Powell/Mosconi (Co-PI) 08/01/15-07/31/17  
Natural History Characterization of Individuals with Phelan-McDermid Syndrome

The goal of this award is to track the natural history of individuals with Phelan-McDermid Syndrome (PMS) including analyses of intellectual, language, sensory, motor, psychiatric and physical development over a two-year period.

**Role:** Consultant (Served as Site PI prior to transferring institutions)

**TDC:** \$50,000

Once Upon A Time Foundation Mosconi (PI) 09/01/13-08/31/15

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Motor Control and Cerebellar Mechanisms in Fragile X-Associated Tremor/Ataxia Syndrome

These translational studies aim to characterize motor control abnormalities and their neural underpinnings in patients with Fragile X-associated tremor/ataxia syndrome using behavioral, neurophysiological and neuroimaging techniques.

**Role:** PI

**TDC:** \$220,000

K01 NIMH

Miller (PI)

Visuomotor integration and attention in autism spectrum disorder (ASD)

The goal of this K01 resubmission is to examine differences between children with ASD and typically developing children in key aspects of visuomotor integration using an innovative paradigm that allows precise quantification of unrestricted head, eye, and body movement during controlled tasks in a semi-naturalistic environment

**Role:** Co-Mentor

K23 NIMH

Pedapati (PI)

Transcranial magnetic stimulation and neocortical excitability in Fragile X Syndrome

The central hypothesis of this K23 Career Development Award posits that variations in motor cortical excitability, including measures of sensorimotor habituation, can be reliably quantified in individuals with Fragile X Syndrome and may serve as a translational biomarker to predict prognostic features and guide novel treatment strategies in patients. The candidate proposes to adapt fundamental transcranial magnetic stimulation measurement techniques to the FXS population to measure excitability in the primary motor cortex.

**Role:** Contributor

PCORI Methods Development Project Talebizadeh (PI)

Bringing Data about Genetic Susceptibility Factors to Outcomes Researchers through Engaging Stakeholders: the BRIDGE Project

The BRIDGE project will provide protocols, examples, and tools to demonstrate how genetic information may be incorporated into PCOR studies. For the purpose of illustrating a practical workflow of the BRIDGE project, we identified 3 conditions prioritized by PCORI [autism, cardiovascular disease, and cancer] around which multidisciplinary expert panels will be formed. Our *main objective* is to develop an infrastructure to support active communication between patients, health care providers, genetic and outcomes researchers that will enable incorporating existing genetic data in outcomes-related research questions.

**Role:** Consultant

**Pending Research Support:**

R21 NICHD

Butler/Mosconi (Co-PI)

Genomic and phenotyping characterization of the 15q11.2 deletion (Burnside-Butler Syndrome)

This is a two-year award aimed at characterizing phenotypic profiles of individuals with microdeletions of the Burnside-Butler cytogenetic region (BP1-BP2) of 15q11.2. Deletions of this region are considered the most common cytogenetic abnormality associated with autism spectrum disorder (ASD).

**Role:** PI

U01 NINDS

Kolevzon (PD); Gustafson (site PI)

Neurophysiological and clinical outcome assessments in Phelan-McDermid Syndrome

This multi-site five-year study aims to validate EEG/ERP biomarkers and clinical outcomes assessments discovered as part of our rare disease consortium so that they may be rapidly translated to future clinical trials of patients with Phelan-McDermid Syndrome. Patients will be tested at 5 sites and followed longitudinally for one year. Our site will be responsible for analyses of one of the primary ERP measures (auditory ERP) and one of the primary clinical outcome assessments (the Communication Complexity Scale, developed by Co-Investigator Dr. Nancy Brady).

**Role:** Co-Investigator

K99/R00 NICHD

Wang (PI)

Gross motor abnormalities across childhood in autism spectrum disorder

This K99/R00 Pathway to Independence Award proposes to characterize gross motor abnormalities in children with autism, including novel studies of gross motor development in 2-4 year-old toddlers with ASD. The primary goal of these studies is to identify novel biobehavioral markers associated with early sensorimotor dysmaturation in autism.

**Role:** Mentor**Completed Research Support:**

K23 MH092696-01 (NIH/NIMH) Mosconi (PI)

09/01/10-12/31/15

Motor Control and Cerebellar Maturation in Autism

The goal of this training award is to compare the development of motor control and underlying cerebellar function in individuals with autism and typically developing individuals.

**Role:** PI

U54 Centers for Collaborative Research in Fragile X (NICHD) Huber/Sweeney (PI's)

09/01/14-08/31/19

Mechanisms of Neocortical and Sensory Hyperexcitability in Fragile X Syndrome

This study is a 5 year, multilevel, integrated approach to determine the pathophysiology of sensory neocortical dysfunction and directly link this to sensory processing deficits in FXS mouse models and patients. Candidate therapeutics to correct sensory processing deficits will be tested in mice and patients.

**Role:** Co-Investigator

Autism Speaks

Versalovic (PI)

12/01/14-11/30/17

Establishing Multi-omic Signatures and Mechanisms Associated with GI Morbidity and Behavior in ASD

This multi-center collaborative effort aims to identify stool-based biomarkers of gastrointestinal (GI) symptoms in children with ASD. Studies are designed to characterize behavioral, GI and multi-omic (microbiome and metabolome) signatures in ASD and generate distinct phenotypic subtypes based on GI-behavior linkages.

**Role:** Co-Investigator**TDC:** \$276,116

AR100276 (Dept of the Army)

Sweeney (PI)

09/01/11-08/31/14

Family Studies of Neurocognitive and Sensorimotor Heterogeneity in Autism

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This study will examine neurocognitive and sensorimotor impairments in individuals with autism and their unaffected biological parents.

**Role:** Co-Investigator

P50 HD055751-01 (NICHD/NIMH) Cook (PI) 09/01/07-07/31/13

Autism Center of Excellence: Translational Studies of Insistence on Sameness in Autism

The aim of this project is to examine the roles of serotonin and cognitive flexibility in animal models, and to extend that to clinical trials of individuals with autism with clinical, cognitive and functional neuroimaging outcomes.

**Role:** Co-Investigator

Grant #4853 (Autism Speaks) Mosconi (PI) 03/01/09-02/28/11

Functional MRI Studies of Cerebellar Integrity in Autism

The goal of this postdoctoral fellowship was to compare manual motor dynamics in individuals with autism and healthy controls, and to identify functional brain system abnormalities associated with motor impairments in this disorder.

**Role:** PI

T32MH67631 (NIH/NIMH) Rasenick (PI) 07/01/07-03/16/09

Training in the Neuroscience of Mental Health

The goal of this fellowship award was to gain training in cognitive neuroscience and its application to studies of autism.

**Role:** Postdoctoral Fellow

Predocotrual Fellowship [NAAR (now Autism Speaks)]; Piven (PI) 08/01/05-07/30/07

Social Perception in Young Children with Autism

The goal of this project was to examine the relationship between social orienting behaviors and amygdala growth in children with autism ages 2-4 years.

**Role:** Predocotrual Fellow