

# BRITTANY G. TRAVERS, PH.D.

## CURRICULUM VITAE

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Occupational Therapy Program in the Department of Kinesiology  
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### FORMAL EDUCATION

- 2011            Ph.D., Cognitive Psychology, University of Alabama, Tuscaloosa, AL  
  
                  Dissertation "Motor Resonance in Adolescents and Young Adults with Autism Spectrum Disorder"  
  
                  Committee: Mark Klinger (chair), Laura Klinger, Rajesh Kana, and Fran Connors
- 2008            M. A., Cognitive Psychology, University of Alabama, Tuscaloosa, AL
- 2006            B. A., Psychology with Honors and Spanish, Creighton University, Omaha, NE

### POSITIONS HELD

- 2014-            Assistant Professor, Department of Kinesiology, University of Wisconsin- Madison, Madison, WI
- 2014-            Investigator, Waisman Center, University of Wisconsin-Madison, Madison, WI
- 2013-2014      Postdoctoral Training Fellow, Hartwell Foundation (PI: Andrew L. Alexander). Mentors: Andrew L. Alexander, Ph.D. and Janet Lainhart, Ph.D.
- 2011-2013      Postdoctoral Training Fellow, NICHD T32 (PI: Marsha Mailick). Mentors: Andrew L. Alexander, Ph.D. and Richard J. Davidson, Ph.D.

### SPECIAL HONORS AND AWARDS

#### National

- 2016, 2017      Second most-cited *Autism Research* article over a five-year period by Google Scholar
- 2016            International Society for Autism Research (INSAR), Young Investigator Award

#### Regional

- 2017            Austin Faculty Fellow, School of Education, University of Wisconsin-Madison
- 2013            Morse Society Scholar, Waisman Center, University of Wisconsin-Madison
- 2011            The University of Alabama Award for Excellence in Research by a Doctoral Student (most notable doctoral research among all doctoral students at the university)
- 2010            Outstanding Research Award by a Doctoral Student for the College of Arts & Sciences (most notable doctoral research among all doctoral students at the college level)
- 2010            Lacy-Ellis Award for Best Doctoral Research in the Psychology Department

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## RESEARCH AND PUBLICATIONS

Link to my Google Scholar page: <https://scholar.google.com/citations?user=vagQx4EAAAAAJ&hl=en>

Link to my PubMed list of publications:

<https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/45289140/?sort=date&direction=ascending>

Google Scholar citation metrics as of December 30, 2018:

- *h*-index = 16
- Cumulative citations = 1051

\*denotes peer-reviewed

†denotes trainee in the lab

1. \*Rodgers, R., **Travers, B. G.**, & Mason, A. M. (in press). Bimanual reach to grasp movements in youth with and without autism spectrum disorder. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2018.02720
2. \*†Dadalko, O. I. & **Travers, B. G.** (2018). Evidence for brainstem contributions to autism spectrum disorders. *Frontiers in Integrative Neuroscience*, 12(47), 1-17. <https://doi.org/10.3389/fnint.2018.00047>. Article citations: 0.
3. \*Prigge, M. B. D., Bigler, E. D., **Travers, B. G.**, Froehlich, A., Abildskov, T., Anderson, J. S., ... Zielinski, B. A. (2018). Social responsiveness scale (SRS) in relation to longitudinal cortical thickness changes in autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 48, 3319-3329, doi: <https://doi.org/10.1007/s10803-018-3566-1>. Article citations: 0.
4. \*†Engel, C., †Lillie, K., Zurawski, S., & **Travers, B. G.** (2018). Curriculum-based handwriting programs: A systematic review with effect sizes. *American Journal of Occupational Therapy*, 72, 7203205010p1-7203205010p8. doi:10.5014/ajot.2018.027110. Article citations: 1.
5. \***Travers, B. G.**, Kirkorian, H. L., Jiang, M. J., Choi, K., Rosenberg, K. S., Pavalko, P., & Jobin, P. (2018). Knowing how to fold 'em: Paper folding across early childhood. *Journal of Motor Learning and Development*, 6, 147-166. doi: 10.1123/jmld.2016-0044. Article citations: 0.
6. \*†Fisher, A., †Engel, C., †Geist, R., †Lillie, K., †Lutman, S., & **Travers, B. G.** (2018). Brief report: Postural balance and daily living skills in children and adolescents with autism. *Journal of Autism and Developmental Disorders*, 48, 163-175. Article citations: 0.
7. \***Travers, B. G.**, Mason, A., Gruben, K. G., Dean, D. C., & †McLaughlin, K. M. (2018). Standing balance on unsteady surfaces in children on the autism spectrum: The effects of IQ. *Research in Autism Spectrum Disorder*, 51, 9-17. Article citations: 0.
8. \*†McLaughlin, K., **Travers, B. G.**, †Dadalko, O. I., Dean, D.C. 3<sup>rd</sup>, Tromp, D. P. M., ... Lainhart, J. E. (2018). Longitudinal development of thalamic and internal capsule microstructure in autism spectrum disorder. *Autism Research*, 11(3), 450-462. doi: 10.1002/aur.1909. Article citations: 3.
9. \***Travers, B. G.**, Mason, A. H., Mrotek, L. A., Ellertson, A., Dean, D. C., 3<sup>rd</sup>, †Engel, C., †Gomez, A., †Dadalko, O. I., & †McLaughlin, K. M. (2018). Biofeedback-based videogame balance training in autism. *Journal of Autism and Developmental Disorders*, 48(1), 163-175. doi: 10.1007/s10803-017-3310-2. Article citations: 1.
10. \*Lalani, S. J., Duffield, T. C., Trontel, H. G., Bigler, E. D., Abildskov, T. J., Froehlich, A., Prigge, M. B. D., **Travers, B. G.**, Anderson, J.S., Zielinski, B. A., Alexander, A., Lange, N., & Lainhart, J. E. (2017). Auditory attention in autism spectrum disorder: An exploration of volumetric magnetic resonance imaging findings. *Journal of Experimental and Clinical Neuropsychology*, 1-16. doi: 10.1080/13803395.2017.1373746. Article citations: 1.

11. \*Dean, D. C., 3<sup>rd</sup>, Lange, N., **Travers, B. G.**, Prigge, M. D., Froehlich, A. L., ... Lainhart, J. E. (2017). Multivariate characterization of white matter heterogeneity in autism spectrum disorder. *Neuroimage Clinical*, 13, 54-66. doi: 10.1016/j.nicl.2017.01.002. Article citations: 3.
12. \***Travers, B. G.**, Bigler, E. D., Duffield, T. C., Prigge, M. D., Froehlich, A. L., ...Lainhart, J. E. (2017). Longitudinal development of manual motor ability in autism spectrum disorder from childhood to mid-adulthood relates to adaptive daily living skills. *Developmental Science*, 20(4). doi: 10.1111/desc.12401. Article citations: 11.
13. \*Dean, D. C. 3<sup>rd</sup>, **Travers, B. G.**, Adluru, N., Tromp, D. P., Destiche, D.,...Alexander, A. L. (2016). Investigating the microstructural correlation of white matter in autism spectrum disorder. *Brain Connectivity*, 6, 415-433. Article citations: 5.
14. \*Powell, P. S., **Travers, B. G.**, Klinger, L. G., & Klinger, M. R. (2016). Difficulties with multi-sensory fear conditioning in individuals with autism spectrum disorder. *Research in Autism Spectrum Disorders*, 25, 137-146. doi:10.1016/j.rasd.2016.02.008 . Article citations: 1.
15. \*Dean, D. C. 3<sup>rd</sup>, O'Muircheartaigh, J., Dirks, H., **Travers, B. G.**, Adluru, N., ... Deoni, S. C. (2016). Mapping an index of the myelin g-ratio in infants using magnetic resonance imaging. *NeuroImage*, 15(132), 225-237. doi: 10.1016/j.neuroimage.2016.02.040. Article citations: 37.
16. \*Green, R. R., Bigler, E. D., Froehlich, A. L., Prigge, M. B. D., **Travers, B. G.**, ... Lainhart, J. E. (2016). Beery VMI performance in Autism Spectrum Disorder. *Child Neuropsychology*, 22(7), 795-817. doi: 10.1080/09297049.2015.1056131. Article citations: 3.
17. \***Travers, B. G.**, Bigler, E. D., Duffield, T. C., Tromp, D. P. M., Adluru, N., Lange, N., ... Lainhart, J. E. (2015). Brainstem white matter predicts individual differences in manual motor difficulties and symptom severity in autism. *Journal of Autism and Developmental Disorders*, 45(9), 3030-3040. doi: 10.1007/s10803-015-2467-9. Article citations: 20.
18. \***Travers, B. G.**, Tromp, D. P. M., Adluru, N., Lange, N., Destiche, D., Ennis, C., ... Alexander, A. L. (2015). Atypical development of white matter microstructure of the corpus callosum in males with autism: A longitudinal investigation. *Molecular Autism*, eCollection 2015. doi: 10.1186/s13229-015-0001-8. Article citations: 33.
19. \*Trontel, H. G., Duffield, T. C., Bigler, E. D., Abildskov, T. J., Froehlich, A., Prigge, M. B. D., **Travers, B. G.**, Anderson, J. S., Zielinski, B. A., Alexander, A. L., Lange, N., & Lainhart, J. E. (2015). Mesial temporal lobe and memory function in autism spectrum disorder: An exploration of volumetric findings. *Journal of Clinical and Experimental Neuropsychology*, 37, 178-192. doi: 10.1080/13803395.2014.997677. Article citations: 7.
20. \*Jantz, P.B., Bigler, E. D., Froehlich, A. L., Prigge, M. B. D., Cariello, A. N., **Travers, B. G.**, ... Lainhart, J. E. (2015). Wide range achievement test in autism spectrum disorder: Test-retest stability. *Psychological Reports: Disability & Trauma*, 116, 1-11. doi:10.2466/03.15.PR0.116k24. Article citations: 3.
21. \*Mussey, J. L., **Travers, B. G.**, Klinger, L. G., & Klinger, M. R. (2015). Decision-making skills in ASD: Performance on the Iowa Gambling Task. *Autism Research*, 8, 105-114. doi: 10.1002/aur.1429. Article citations: 9.
22. \*Lange, N., **Travers, B. G.**, Bigler, E. D., Prigge, M. B., Froehlich, A. L., Nielsen, J. A., Cariello, A. N., Zielinski, B. A., Anderson, J. S., Fletcher, P. T., Alexander, A. A., & Lainhart, J. E. (2015). Longitudinal volumetric brain changes in Autism Spectrum Disorder ages 6-35 years. *Autism Research*, 8, 82-93. doi: 10.1002/aur.1427. Article citations:83.

23. **\*Travers, B. G.**, Kana, R. K., Klinger, L. G., Klein, C. L., & Klinger, M. R. (2015). Motor learning in individuals with Autism Spectrum Disorder: Group differences in superior parietal lobule related to learning and repetitive behaviors. *Autism Research*, 8, 38-51. doi: 10.1002/aur.1403. Article citations: 25.
24. \*Zielinski, B. A., Prigge, M. B. D., Nielsen, J. A., Froehlich, A. L., Abildskov, T., Anderson, J., Fletcher, P. T., **Travers, B. G.**, Lange, N., Alexander, A. L., Bigler, E. D., & Lainhart, J. E. (2014). Longitudinal changes in cortical thickness in autism and typical development. *Brain*, 137(6), 1799-1812. doi: 10.1093/brain/awu083. Article citations: 166.
25. \*Converse, A. K., Ahlers, E., **Travers, B. G.**, & Davidson, R. J. (2014). Tai chi training reduces self-report of inattention in healthy young adults. *Frontiers in Human Neuroscience*, 8(13). doi: 10.3389/fnhum.2014.00013. Article citations: 23.
26. **\*Travers, B. G.**, Bigler, E. D., Tromp, D. P. M., Adluru, N., Froehlich, A. L., Ennis, C., Lange, N., Nielsen, J. A., Prigge, M. B., Alexander, A. L., & Lainhart, J. E. (2014). Longitudinal processing speed impairments in males with autism and the effects of white matter microstructure. *Neuropsychologia*, 53, 137-145. doi:10.1016/j.neuropsychologia.2013.11.008. Article citations: 26.
27. **\*Travers, B. G.**, Powell, P. S., Mussey, J. L., Klinger, L. G., Crisler, M. E., & Klinger, M. R. (2013). Spatial and identity cues differentially affect implicit contextual cueing in adolescents and adults with Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*, 43(10), 2393-2404. doi: 10.1007/s10803-013-1787-x. Article citations: 15.
28. \*Duffield, T. C., Trontel, H. G., Bigler, E. D., Froehlich, A., Prigge, M. B. **Travers, B. G.**, Green, R. R., Cariello, N., Cooperrider, J., Nielsen, J. A., Alexander, A. L., Anderson, J. S., Fletcher, P. T., Lange, N., Zielinski, B. A., & Lainhart, J. (2013). Neuropsychological investigation of motor impairments in Autism. *Journal of Clinical and Experimental Neuropsychology*, 35(8), 867-881. doi: 10.1080/13803395.2013.827156. Article citations: 21.
29. **\*Travers, B. G.**, Powell, P. S., Klinger, L. G., & Klinger, M. R. (2013). Motor difficulties in Autism Spectrum Disorder: Linking symptom severity and postural stability. *Journal of Autism and Developmental Disorders*, 43(7), 1568-1583. doi: 10.1007/s10803-012-1702-x. Article citations: 77.
30. **Travers, B. G.**, & Alexander, A. L. (2013). Diffusion tensor magnetic resonance imaging in autism. In J. S. Suri et al., (Eds.) *Imaging the Brain in Autism*. New York: Springer. Article citations: 3.
31. \*Trontel, H. G., Duffield, T. C., Bigler, E. D., Froehlich, A., Prigge, M. B. D., Nielsen, J. A., Cooperrider, J. R., Cariello, A. N., **Travers, B. G.**, Anderson, J. S., Zielinski, B. A., Alexander, A. L., Lange, N., & Lainhart, J. E. (2013). Fusiform correlates of facial memory in autism. *Behavioral Sciences*, 3, 348-371. doi: 10.3390/bs3030348. Article citations: 7.
32. **\*Travers, B. G.**, Adluru, N., Ennis, C., Tromp, D. P. M., Destiche, D., Doran, S., Bigler, E. D., Lange, N., Lainhart, J. E., & Alexander, A. L. (2012). Diffusion tensor imaging in Autism Spectrum Disorder: A review. *Autism Research*, 5(5), 289-313. doi: 10.1002/aur.1243. Article citations: 252.
33. \*Kana, R. K., & **Travers, B. G.** (2012). Neural substrates of interpreting actions and emotions from body postures. *Social Cognitive and Affective Neuroscience*, 7(4), 446-456. doi: 10.1093/scan/nsr022. Article citations: 25.
34. Kana, R. K., Wadsworth, H., & **Travers, B. G.** (2011). A systems level analysis of the mirror neuron hypothesis and imitation impairments in Autism Spectrum Disorders. *Neuroscience & Biobehavioral Reviews*, 35(3), 894-902. doi: 10.1016/j.neubiorev.2010.10.007. Article citations: 91.
35. **Travers, B. G.**, Klinger, M. R., & Klinger, L. G. (2011). Working memory and attention in persons with Autism Spectrum Disorders. In D. Fein (Ed.), *The Neuropsychology of Autism*. Oxford: Oxford University Press. Article citations: 23.

36. \*Kana, R. K., Klein, C. L., Klinger, L. G., **Travers, B. G.**, & Klinger, M. R. (2011). Neural representations of self versus other: Lessons from Autism. In M. Just (Ed.), *Development of Brain Systems in Autism*. London: Psychology Press. Article citations: 3.
37. \***Travers, B. G.**, Klinger, M. R., Mussey, J. L., & Klinger, L. G. (2010). Motor-linked implicit learning in persons with Autism Spectrum Disorders. *Autism Research*, 3, 68-77. doi: 10.1002/aur.123. Article citations: 44.
38. \*Cherney, I., Greteman, A., & **Travers, B. G.** (2008). A cross-cultural view of adults' perceptions of children's rights. *Social Justice Research*, 21, 432-456. Article citations: 22.

## RESEARCH SUPPORT

**Principal Investigator**, R01 HD094715, *Eunice Kennedy Shriver National Institute of Child Health and Human Development*. Direct costs: \$1,097,192. September 2018-September 2022. This project examines brainstem contributions to sensory, motor, and core symptom features in children with autism spectrum disorder.

**Principal Investigator**, Fall Competition Award, *University of Wisconsin-Madison Office of the Vice Chancellor for Research*. Total costs: \$48,917. July 2018-October 2018. This study provided funding to enhance our grant application for our NICHD investigation of brainstem contributions to sensory and motor features in autism.

**Principal Investigator**, Fall Competition Award, *University of Wisconsin-Madison Office of the Vice Chancellor for Research*. Total costs: \$38,813. July 2017-June 2019. This study is examining pre-post brain imaging in individuals with typical development to compare to the pre-post brain changes observed in individuals with autism after undergoing an intensive 6-week balance training.

**Principal Investigator**, Fall Competition Award, *University of Wisconsin-Madison Office of the Vice Chancellor for Research*. Total costs: \$38,813. July 2017-June 2018. This one-year study is examining pre-post brain imaging in individuals with typical development to compare to the pre-post brain changes observed in individuals with autism after undergoing an intensive 6-week balance training.

**Principal Investigator**, Individual Biomedical Research Award, *Hartwell Foundation*. Total costs: \$300,000. April 2016-March 2019. This three-year study uses advanced, multi-modal imaging to characterize the brainstem in children with autism and autism-related disorders.

**Co-Principal Investigator**, ICTR-Basic & Clinical Translational Research Pilot Award, *UW Institute for Clinical and Translational Research*. Total costs: \$50,000. September 2016-August 2017. This two-year study investigates computational predictors of learning and neurobiology in individuals with autism through multi-session learning paradigms under varied sensory contexts and corresponding neuroimaging.

**Co-Principal Investigator**, Interdisciplinary Competition Award, *University of Wisconsin-Madison Office of the Vice Chancellor for Research*. Total costs: \$79,728. July 2015-June 2017. This two-year study is designing and developing a custom robotic platform capable of supporting a full range of upper-limb motor-skill therapies and assessments in children with autism.

**Principal Investigator**, NARSAD Young Investigator Award, *Brain and Behavior Research Foundation*. Total costs: \$65,000. January 2015-December 2016. This research examines pre-post brain imaging of a motor learning training in adolescents with autism.

**Principal Investigator**, *Motor Performance in Autism*. Grant awarded by Friends of the Waisman Center, Inc., a nonprofit organization, Total Costs: \$500. 2013-2014. This grant provided funding for the collection of pilot data and recruitment of participants in a study of motor development in children with Autism Spectrum Disorder compared to children with typical development.

## PRESENTATIONS

## Invited

- Fall 2017 Waisman Center Ethics and Professional Development Seminar, *Interdisciplinary collaborations*. Co-presented with Andrew L. Alexander
- Fall 2016 Kinesiology Department, Penn State University, Colloquium Invited Speaker for the Department of Kinesiology, *Motor development, neurobiology, and daily living skills in autism*.
- Spring 2016 Psychology Department, University of Alabama, Developmental Contemporary Issues Series, *Longitudinal development of manual motor skills in autism*.
- Spring 2016 Waisman Center Early Childhood Seminar Series, *Hand skill development and daily living skills in individuals with autism*.
- Spring 2016 Psychology Department, University of Wisconsin-Madison, Developmental Brown Bag Series, *Development of motor skills in autism*.
- Fall 2015 Waisman Center Ethics and Professional Development Seminar, *Work-life balance, panelist*.
- Fall 2015 UW-Madison Institute for Research Ethics, *Informed consent in vulnerable populations, panelist*.
- Spring 2015 Waisman Center Ethics and Professional Development Seminar, *Interdisciplinary collaborations*.
- Fall 2013 University of Wisconsin-Madison Kinesiology Seminar Series, *Motor impairments and symptom severity in autism spectrum disorder*.
- Spring 2013 Waisman Center Ethics and Professional Development Seminar, *Interdisciplinary collaborations*. Co-presented with Andrew L. Alexander and Richard J. Davidson.
- Spring 2012 Waisman Center Ethics and Professional Development Seminar Series, A Crash Course in R: Learn to make amazing figures and graphs. (co-presented seminar with Matthew Maenner). Approximately 60 attendees. Overall rating of seminar: 8.1 out of 10.

## Conference

1. Ardalan, A., Surgent, O., Assadi, A., & **Travers, B. G.** (2018, November). *Gross motor features during balance training distinguish youth with autism spectrum disorder compared to youth with typical development*. Poster presented at the Society for Neuroscience, San Diego, CA.
2. Mason, A. H., Zinn, M., Subramani, G., Fisher, A., Jacquot, S., & **Travers, B. G.** (2018, November). *Detecting visual-motor challenges in autism using a robotically guided drawing task*. Poster presented at the Society for Neuroscience, San Diego, CA.
3. **Travers, B. G.**, Sunkara, A., Kim, B., Chang, T., Jiang, H., Surgent, O., Sabel, K., Jacquot, S., Dinges, A., & Rosenberg, A. (2018, November). *Distinct patterns of impaired contextual learning in autism spectrum disorders*. Poster presented at the Society for Neuroscience, San Diego, CA.
4. Rosenberg, A., Sunkara, A., Jiang, H., Chang, T., Kim, B., Sabel, K., Jacquot, S., Dinges, A., & **Travers, B. G.** (2018, May). *Diminished contextual learning in autism spectrum disorders*. Talk presented at Vision Sciences Society Annual Meeting, St. Pete Beach, FL.

5. Nacewicz, B., Surgent, O., & **Travers, B. G.** (2018, May). *High temporal resolution event-related functional spectroscopy reveals grossly abnormal neurotransmitter responses in pontine reticular nuclei in autism spectrum disorder*. Poster presented at the Society of Biological Psychiatry, New York, New York.
6. Converse, A. K., Dean, D. C., **Travers, B. G.**, Prigge, M. B., Bigler, E., Lange, N., Alexander, A. L., & Lainhart, J. E. (2018, May). *ADHD symptomatology and white matter development in autism spectrum disorder*. Poster presented at the International Society for Autism Research, Rotterdam, Netherlands.
7. Villaruz, J., Dean, D. C., **Travers, B. G.**, Freeman, A., Prigge, M. D., Zielinski, B. A., Fletcher, P. T., Anderson, J. S., Bigler, E., Lange, N., Alexander, A. L., & Lainhart, J. E. (2018, May). *Modeling developmental trajectories of white matter microstructure in the autistic and typical brain*. Poster presented at the International Society for Autism Research, Rotterdam, Netherlands.
8. Engel, C., Fisher, A., Geist, R., Lillie, K., Lutman, S., & **Travers, B. G.** (2018, April). *Balance and daily living skills in autism*. Poster presented at the American Occupational Therapy Association, Salt Lake City, UT.
9. **Travers, B. G.**, Dadalko, O., Ausderau, K., & McLaughlin, K. (2017, November). *Sensory challenges in autism are associated with microstructural atypicalities in the brainstem*. Poster presented at the Society for Neuroscience, Washington, D.C.
10. Gallagher, I., Gomez, A., Dadalko, O., McLaughlin, K., Surgent, O. J., ... **Travers, B. G.** (2017, November). *Microstructure and morphometry of the pons in response to balance training in individuals with autism*. Poster presented at the Society for Neuroscience, Washington, D.C.
11. Dadalko, O., McLaughlin, K., & **Travers, B. G.**, (2017, November). *Linking brainstem microstructure and motor symptoms in children with autism spectrum disorder*. Poster presented at the Society for Neuroscience, Washington, D.C.
12. **Travers, B. G.** (2017, May). *Bridging neuroimaging and occupation in autism*. Led round table discussion at the Occupational Therapy Summit of Scholars, Boston, Massachusetts.
13. Mason, A. H., Gruben, K., Dean, D. C. 3<sup>rd</sup>, McLaughlin, K. M., & **Travers, B.G.** (2017, May). *Standing balance on rigid and unstable surfaces in children on the autism spectrum: Interaction between symptom and motor domains*. Poster presented at the International Meeting for Autism Research, San Francisco, California.
14. **Travers, B. G.**, Dean, D.C. 3<sup>rd</sup>, Mason, A. H., Ellertson, A. & Mrotek, L. A. (2017, May). *Biofeedback-based balance training in autism spectrum disorder*. Poster presented at the International Meeting for Autism Research, San Francisco, California.
15. Villaruz, J., Dean, D. C. 3<sup>rd</sup>, **Travers, B. G.**, Freeman, A. A., Zielinski, B. A., ... & Lainhart, J. E. (2017, May). *White matter microstructure as candidate brain phenotypes of autism*. Poster presented at the International Meeting for Autism Research, San Francisco, California.
16. Dean, D. C. 3<sup>rd</sup>, **Travers, B. G.**, Villaruz, J., Freeman, A. A., Adluru, N., ... & Alexander, A. L. (2017, May). *Developing white matter microstructure networks in autism spectrum disorders*. Poster presented at the International Meeting for Autism Research, San Francisco, California.

17. Jiang, M. J., Choi, K., Kirkorian, H. L., **Travers, B. G.**, Rosengren, K. S., Millerhagen, J., Lee, C., & Haugstad, N. (2017, April). *Drawing across mediums: The impact of technology on the quality and production of drawings*. Poster presented at the SRCDC Biennial Meeting, Austin, Texas.
18. Jiang, M. J., Choi, K., Kirkorian, H. L., **Travers, B. G.**, Rosengren, K. S., Pavalko, P. E., Matoba, M. K., Peters, D. E., Millerhagen, J. B., Lee, C., & Sabel, K. (2016, October). *The impact of technology on children's drawing*. Poster presented at the SRCDC Special Topic Meeting: Technology and Media in Children's Development, Irvine, California.
19. Choi, K., Jiang, M. J., Kirkorian, H. L., **Travers, B. G.**, Rosengren, K. S., Jobin, P., ... Tolkin, E. (2016, May). *Drawing across the mediums: The impact of technology on the quality of drawings*. Poster presented at the Association for Psychological Science, Chicago, Illinois.
20. **Travers, B. G.** (2016, May). *Quantitative assessment of kinematics and balance during dressing in autism: A feasibility study*. Talk presented at the Occupational Therapy Summit of Scholars, Pittsburgh, Pennsylvania.
21. **Travers, B. G.**, Dean, D. C., Tromp, D., Adluru, N., Destiche, D., Zielinski, B. A., ... Lainhart, J. E., (2016, May). *Longitudinal voxel-base analysis of white matter contributions to processing speed in individuals with autism spectrum disorder*. Poster presented at the International Meeting for Autism Research, Baltimore, Maryland.
22. Dean, D. C., **Travers, B. G.**, Adluru, N., Tromp, D., Destiche, D., Freeman, A., ... Lainhart, J. E. (2016, May). *Longitudinal development of white matter in autism spectrum disorder*. Talk presented at the International Meeting for Autism Research, Baltimore, Maryland.
23. Lainhart, J. E., Kane, K. L., Prigge, M. D., Samsin, D. P., **Travers, B. G.**, Freeman, A., ... Alexander, A. L. (2016, May). *Longitudinal age-related impairments in processing speed, anxiety, and adaptive functioning from childhood to adulthood in individuals with autism*. Poster presented at the International Meeting for Autism Research, Baltimore, Maryland.
24. Lange, N., Dean, D. C., **Travers, B. G.**, Zielinski, B. A., Alexander, A. L., & Lainhart, J. E. (2016, May). *Finding individual developmental brain circuitry and brain-behavior associations in autism by a new multivariate crossmatch method*. Poster presented at the International Meeting for Autism Research, Baltimore, Maryland.
25. McLaughlin, K., **Travers, B. G.**, Dean, D. C., Tromp, D., Adluru, N., Destiche, D., ... Lainhart, J. E. (2016, May). *Longitudinal microstructure of the thalamus and anterior limb of the internal capsule in individuals with autism spectrum disorder*. Poster presented at the International Meeting for Autism Research, Baltimore, Maryland.
26. Zielinski, B. A., Prigge, M. D., White, M., Dean, D. C., **Travers, B. G.**, ... Lainhart, J. E. (2016, May). *Longitudinal trajectories of large-scale brain network architecture in autism*. Poster presented at the International Meeting for Autism Research, Baltimore, Maryland.
27. Bellinger, G. C., Rodgers, R. A., Gannon, S. J., **Travers, B. G.**, & Mason, A. H. (2016, May). *The end-state comfort effect in children with autism spectrum disorder and typically developing children: The importance of functionally relevant motor tasks*. Poster presented at the International Meeting for Autism Research, Baltimore, Maryland.
28. Erickson, N. E., & **Travers, B. G.** (2016, April). *The effects of sensory integration on motor outcomes in autism spectrum disorders: A systematic review*. Poster presented at the 2016 Annual Conference of the American Occupational Therapy Association, Chicago, IL.



29. Rodgers, R. A., Bellinger, G., Free, C., **Travers, B. G.**, & Mason, A. H. (2015, October). *Unimanual and bimanual reach-to-grasp movements in typically developing children and children with autism spectrum disorder*. Poster presented at the Society for Neuroscience, Chicago, Illinois.
30. Dean, D. C., **Travers, B. G.**, Bigler, E. D., Prigge, M. B. D., Froehlich, A. L., Lange, N., ... Alexander, A. L. (2015, June). *Age-related changes of white matter interrelationships in autism spectrum disorder*. Poster presented at the Joint Annual Meeting ISMRM-ESMRMB, Toronto, Ontario, Canada.
31. Alexander, A. L., Sterling, A., **Travers, B. G.**, Lainhart, J. E., and Kecsckemeti, S. R. (2015, June). *Retrospective motion correction of MPnRAGE studies in children*. Talk presented at the Joint Annual Meeting ISMRM-ESMRMB, Toronto, Ontario, Canada.
32. **Travers, B. G.**, Bigler, E. D., Duffield, T. C., Prigge, M. D. B., Froehlich, A. L., Lange, N., ... Lainhart, J. E. (2015, May). *Longitudinal development of manual motor ability in autism from childhood to mid-adulthood and corresponding adaptive daily living skills*. Talk presented at the International Meeting for Autism Research, Salt Lake City, Utah.
33. Dean, D. C., **Travers, B. G.**, Bigler, E. D., Prigge, M. D. B., Froehlich, A. L., Lange, N., ... Lainhart, J. E. (2015, May). *Microstructural covariance of white matter in autism spectrum disorder*. Poster presented at the International Meeting for Autism Research, Salt Lake City, Utah.
34. Prigge, M. D. B., Lange, N., Bigler, E. D., Zygmunt, K., **Travers, B. G.**, Abildskov, T., ... Lainhart, J. E. (2015, May). *Longitudinal cortical thickness development in relation to changes in SRS scores over time in autism*. Poster presented at the International Meeting for Autism Research, Salt Lake City, Utah.
35. **Travers, B. G.** (2015, May). *Brain connectivity changes among adolescents with autism as a function of motor training: A pilot study*. Poster presented at the Occupational Therapy Summit of Scholars, Los Angeles, California.
36. **Travers, B. G.**, Bigler, E. D., Tromp, D. P. M., Adluru, N., Froehlich, A. L., ... Lainhart, J. E. (2014, May). *Manual motor performance related to autistic traits, daily living skills, and white matter microstructure in Autism Spectrum Disorder*. Poster presented at the International Meeting for Autism Research, Atlanta, Georgia.
37. **Travers, B. G.**, Bigler, E. D., Tromp, D. P. M., Adluru, N., Froehlich, A. L., ... Lainhart, J. E. (2013, May). *Longitudinal changes in processing speed and corresponding white matter microstructure in Autism Spectrum Disorder (ASD)*. Poster presented at the International Meeting for Autism Research, San Sebastián, Spain.
38. **Travers, B. G.**, Powell, P. S., Klinger, L. G., & Klinger, M. R. (2012, May). *Postural stability and symmetry in persons with Autism Spectrum Disorder: Relation between symptom severity and wii balance board performance*. Talk presented at the International Meeting for Autism Research, Toronto, Ontario.
39. Klinger, M. R., **Travers, B. G.**, Powell, P. S., & Klinger, L. G. (2012, May). *Motor Resonance in Adolescents and Adults with Autism Spectrum Disorder*. Talk presented at the International Meeting for Autism Research, Toronto, Ontario.
40. Powell, P. S., Crisler, M. E., Klinger, L. G., **Travers, B. G.**, & Klinger, M. R. (2012, May). *Impaired classical conditioning in persons with Autism Spectrum Disorder*. Poster presented at the International Meeting for Autism Research, Toronto, Ontario.
41. Powell, P. S., Crisler, M. E., **Travers, B. G.**, Mussey, J. L., Klinger, M. R., & Klinger, L. G. (2011, May). *Global and local contextual learning in persons with ASD*. Poster presented at the International Meeting for Autism Research, San Diego, CA.

42. **Travers, B. G.**, Wheelock, M., Klein, C. L., Klinger, L. G., Montague, R., & Klinger, M. R. (2010, May). *Prototype learning in Autism Spectrum Disorders*. Poster presented at the International Meeting for Autism Research, Philadelphia, PA.
43. Klein, C. L., Klinger, L. G., Kana, R., **Travers, B. G.**, Montague, R., & Klinger, M. R. (2010, May). *Neural bases of implicit learning in young adults with Autism Spectrum Disorder*. Poster presented at the International Meeting for Autism Research, Philadelphia, PA.
44. **Travers, B. G.**, Klinger, M. R., & Sandy, C. J. (2010, January). *Psychological research and the Internet: A comparison of online and in-lab millisecond-precise tasks*. Poster presented at the Meeting of the Society for Personality and Social Psychology, Las Vegas, NV.
45. **Travers, B. G.**, Klein, C., Klinger, M. R., Klinger, L. G., & Kana, R. K. (2009, May). *Neural correlates of motor-linked implicit learning in persons with Autism Spectrum Disorders*. Talk presented at the International Meeting for Autism Research, Chicago, IL.
46. Klein, C. L., **Travers, B. G.**, Klinger, M. R., Klinger, L. G., & Kana, R. K. (2009, May). *Neural correlates of self-representation in persons with Autism Spectrum Disorders*. Poster presented at the International Meeting for Autism Research, Chicago, IL.
47. **Travers, B. G.**, Klinger, M. R., Klinger, L. G., & Mussey, J. L. (2008, May). *Implicit motor learning in person's with Autism Spectrum Disorders*. Poster presented at the International Meeting for Autism Research, London, UK.
48. Mussey, J., Klinger, L. G., Klinger, M. R., & **Travers, B. G.** (2008, May). *Decision-making skills in Autism Spectrum Disorders: Performance on the Iowa Gambling Task*. Poster presented at the International Meeting for Autism Research, London, UK.
49. Klinger, M. R., Klinger, L. G., **Travers, B. G.**, & Mussey, J. (2008, May). *Contextual learning in persons with ASD*. Poster presented at the International Meeting for Autism Research, London, UK.
50. Cherney, I. D., Greteman, A. J., Skovran, L., & **Travers, B.** (2006, March). *Adolescents' and adults' perceptions of children's rights from a cross-cultural perspective*. Poster presented at the Society for Research in Adolescence Biennial Meeting, San Francisco, CA.
51. Cherney, I. D., Greteman, A. J., & **Travers, B.** (2005, October). *Adults' perceptions of children's rights*. Talk given at the 30th European Studies Conference, Omaha, NE.
52. Cherney, I. D. & **Travers, B.** (2005, May). *Adults' perceptions of children's rights – An international perspective*. Poster presented at the Midwestern Psychological Association meeting, Chicago, IL.

## TEACHING

### Graduate Courses

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|-------------|--|
| Spring 2018 | OT 672, <i>Scientific Inquiry in OT II: Research Design and Methods</i> class of 26 students, University of Wisconsin-Madison. Overall instructor rating: TBD.             |
| Spring 2018 | OT 674, <i>Scientific Inquiry in OT IV: Writing for Scientific Publication</i> class of 24 students, University of Wisconsin-Madison. Overall instructor rating: TBD.      |
| Fall 2017   | Kines 885, <i>Seminar in Occupation and Health</i> class of 9 students, University of Wisconsin-Madison. Overall instructor rating: 4.86 out of 5.                         |
| Fall 2017   | OT 673, <i>Scientific Inquiry in OT III: Data Collection and Analysis</i> class of 24 students, University of Wisconsin-Madison. Overall instructor rating: 4.65 out of 5. |

- Spring 2017 OT 672, *Scientific Inquiry in OT II: Research Design and Methods* class of 24 students, University of Wisconsin-Madison. Overall instructor rating: 4.76 out of 5.
- Spring 2017 OT 674, *Scientific Inquiry in OT IV: Writing for Scientific Publication* class of 26 students, University of Wisconsin-Madison. Overall instructor rating: 4.64 out of 5.
- Fall 2016 OT 673, *Scientific Inquiry in OT III: Data Collection and Analysis* class of 26 students, University of Wisconsin-Madison. Overall instructor rating: 4.55 out of 5.
- Spring 2016 OT 672, *Scientific Inquiry in OT II: Research Design and Methods* class of 26 students, University of Wisconsin-Madison. Overall instructor rating: 4.75 out of 5.
- Spring 2016 OT 674, *Scientific Inquiry in OT IV: Writing for Scientific Publication* class of 25 students, University of Wisconsin-Madison. Overall instructor rating: 4.83 out of 5.
- Fall 2015 OT 673, *Scientific Inquiry in OT III: Data Collection and Analysis* class of 25 students, University of Wisconsin-Madison. Overall instructor rating: 4.42 out of 5.
- Spring 2015 OT 672, *Scientific Inquiry in OT II: Research Design and Methods* class of 25 students, University of Wisconsin-Madison. Overall instructor rating: out 4.55 of 5.
- Spring 2016 OT 674, *Scientific Inquiry in OT IV: Writing for Scientific Publication* class of 25 students, University of Wisconsin-Madison. Overall instructor rating: 4.52 out of 5.
- Fall 2014 OT 673, *Scientific Inquiry in OT III: Data Collection and Analysis* class of 25 students, University of Wisconsin-Madison. Overall instructor rating: 4.40 out of 5.

### **Undergraduate Courses**

- Spring 2011 PY 211 *Elementary Statistical Methods* class of 60 students, University of Alabama. Overall instructor rating: 4.4 out of 5.
- Spring 2009 PY 101 *Introductory Psychology* class of 200 students, University of Alabama. Overall instructor rating: 4.6 out of 5.
- Fall 2008 PY 101 *Introductory Psychology* class of 35 students, University of Alabama. Overall instructor rating: 4.6 out of 5.

### **Undergraduate Student Lab Supervision**

- Spring 2019 Kines 399, Brooke Meyerhofer, Megan Peck, and Elisa Snyder  
Kines 699, Oskar Zarzycki
- Fall 2018 Kines 399, Elizabeth Dennis and Elisa Snyder  
Kines 699, Isabelle Gallagher and Oskar Zarzycki
- Spring 2018 Kines 399, Brooke Koehn and Rachel Matz  
Kines 699, Dana Dobbe, Isabelle Gallagher, Andres Gomez, Jenna Lent, Amin Tmimi, and Oskar Zarzycki
- Fall 2017 Kines 399, Dana Dobbe, Brooke Koehn, Rachel Matz, Jenna Radke, Rachel Samz, Amin Tmimi, and Oskar Zarzycki  
Kines 699, Isabelle Gallagher and Jenna Lent
- Spring 2017 Kines 399, Sarah Brill

Kines 699, Isabelle Gallagher, Andres Gomez, Jenna Lent, Elise Suttner, and Desiree Taylor

Fall 2016 Kines 399, Isabelle Gallagher, Elise Suttner, & Desiree Taylor  
Kines 699, Jenna Lent, and Andres Gomez

Spring 2016 Kines 399, Lauren Hoover  
Kines 699, Andres Gomez, Larissa Hacker, and Kristine McLaughlin

Fall 2015 Kines 699, Andres Gomez, Larissa Hacker, Nicole Marczak, Kristine McLaughlin, Carli Peter, and Kailey Sabel

Summer 2015 Kines 699, Molly Pearcy

### **Graduate Student Lab Supervision & Advising**

2017- Olivia Surgent (NTP Ph.D. student), Sarah Jacquot, Kirstin Peters, Michele Severson, and Matthew Walczak,

2016- Claire Melin, Kailey Sabel, Joshua Tarnoff, and Caitlin Van Sloun

2015-2016 Courtney Engel, Aubrey Fisher, Robyn Geist, Kristin Lillie, and Sagui Lutman

2014-2015 Sarah Crook, Nicole Erickson, and Sean Sekelsky.

### **Postdoctoral Research Fellow Supervision**

Fall 2016- Olga Dadalko, Ph.D.

## **SERVICE ACTIVITIES**

### **Public**

Spring 2018 Madison Metropolitan School District's Personalized Pathways lab visit.

Spring 2018 Waisman Center's Autism Day with the Experts, *Biofeedback-based videogame balance training in autism.*

Summer 2017 Preschoolers from the Waisman Center's Early Childhood Program visited the lab to do hands-on activities to learn about the brain.

Fall 2016 Madison Children's Museum Advisory Group to make the museum more friendly for individuals with autism spectrum disorders and sensory processing challenges.

Spring 2016 Health Occupation Students of America-UW Madison and Special Olympics Event, *Manual motor skills in autism.*

Spring 2015 Waisman Center Grandparents' Network, *Motor ability in developmental disorders.*

Spring 2015 Waisman Center's Autism Day with the Experts, *Motor ability in autism: Common difficulties and neural underpinnings.*

### **University**

Spring 2018 ICTR Internal Grant Review.

Fall 2017- Waisman Center Director Search Committee, University of Wisconsin-Madison

Summer 2017- Wisconsin LEND Advisory Board

**Brittany G. Travers / [btravers@wisc.edu](mailto:btravers@wisc.edu) / (608) 263-0282**

Fall 2016- Faculty Senate Alternate, University of Wisconsin-Madison

Fall 2016- Hartwell Foundation Internal Grant Selection Committee, University of Wisconsin-Madison

Fall 2016 Admissions Committee, *Neuroscience Training Program*, University of Wisconsin-Madison.

Spring 2016- Faculty, Neuroscience Training Program, University of Wisconsin-Madison

Fall 2015- Faculty, NICHD T32 Postdoctoral Training Program in Intellectual and Developmental Disability Research, University of Wisconsin-Madison

Fall 2014- Faculty Liaison, Morse Society [interdisciplinary society of postdoctoral fellows and graduate students endowed by Dr. Richard Morse]

### **Department**

Fall 2017- Member, Department of Kinesiology Space, Technology, and Facilities Committee

Fall 2016- Faculty Advisor, Diverse-OT Student Organization.

Spring 2017 Member, Department Merit Review Committee

Fall 2015-2017 Member, Department of Kinesiology Equity, Climate, and Diversity Committee

Fall 2014-2017 Member, Occupational Therapy Graduate Program Committee

Fall 2014 Member, Department of Kinesiology Tactical Planning Task Force on Faculty Workload

### **International Professional Service**

Spring 2017 Junior faculty member group discussion leader, Early Career Development Pre-Conference, International Society for Autism Research

Spring 2016 Junior faculty member group discussion leader, Early Career Development Pre-Conference, International Society for Autism Research

Spring 2014 Junior faculty member group discussion leader, Early Career Development Pre-Conference, International Society for Autism Research

### **Journal Reviewing**

<i>Autism</i>	<i>Journal of Motor Behavior</i>
<i>Autism Research</i>	<i>Journal of Neurodevelopmental Disorders</i>
<i>Biological Psychiatry</i>	<i>Nature Scientific Reports</i>
<i>Brain</i>	<i>Neuroimage</i>
<i>Brain Imaging and Behavior</i>	<i>Neuroimage Clinical</i>
<i>Frontiers in Human Neuroscience</i>	<i>Neuropsychology</i>
<i>Games for Health Journal</i>	<i>Neuroscience &amp; Biobehavioral Reviews</i>
<i>Journal of Autism and Development Disorders</i>	<i>PLOSOne</i>
<i>Journal of Child Psychology and Psychiatry</i>	<i>Research in Autism Spectrum Disorders</i>

### **Grant Reviewing**

Spring 2018 Reviewer, ICTR Pilot Internal Grant

Summer 2017 Reviewer, Hartwell Foundation Internal Grant

Summer 2016 Reviewer, Hartwell Foundation Internal Grant

**Brittany G. Travers / [btravers@wisc.edu](mailto:btravers@wisc.edu) / (608) 263-0282**

## **Professional Affiliations**

- 2017- Wisconsin Occupational Therapy Association
- 2015- Society for Neuroscience
- 2015- American Occupational Therapy Association
- 2007- International Society for Autism Research

## **Media/Public Outreach**

- November 28, 2017. Students with Autism Strike A 'Ninja Pose' To Improve Their Balance, by Brady Carlson. *Wisconsin Public Radio*. [www.wpr.org/students-autism-strike-ninja-pose-improve-their-balance](http://www.wpr.org/students-autism-strike-ninja-pose-improve-their-balance)
- November 21, 2017. Video Game Improves Balance in Youth with Autism, by Adityarup Chakravorty. *UW Communications*. <https://news.wisc.edu/video-game-improves-balance-in-youth-with-autism/>
- November 12, 2017. Brain imaging reveals brain stem alterations in children with autism, by Hannah Furfaro. *Spectrum News*, <https://spectrumnews.org/news/brain-imaging-reveals-brain-stem-alterations-children-autism/>
- April 26, 2017. Two Autism Features May Share Common Root in Brain, by Nicholette Zeliadt. *Spectrum News*. <https://spectrumnews.org/news/two-autism-features-may-share-common-root-brain/>
- February 27, 2017. Brain's Bridge Could Yield Clues to Faulty Wiring in Autism, by Sarah Deweerdt. *Spectrum News*. <https://spectrumnews.org/news/brains-bridge-yield-clues-faulty-wiring-autism/>
- February 24, 2016. Balancing Act, by Denise Thornton. *Isthmus*. <http://isthmus.com/news/news/autistic-children-aided-by-video-game/>
- January 20, 2016. Video Game Research Shows Promise for Autism, by Kelly Tyrell. *UW Communications*. <https://www.waisman.wisc.edu/news2016-TraversVG.htm>
- July 14, 2015. Frayed nerve bundle may spur autism's motor, social deficits. *Simons Foundation Autism Research Initiative*. <https://spectrumnews.org/news/frayed-nerve-bundle-may-spur-autisms-motor-social-deficits/>
- June 4, 2015. Thick Bridge of Nerves May Signal Autism in Infancy. Journalist interview. *Simons Foundation Autism Research Initiative*. <https://spectrumnews.org/news/thick-bridge-of-nerves-may-signal-autism-in-infancy/>
- April 10, 2015. Corpus Callosum Ages Abnormally in Autism by Charles Q. Choi. *Simons Foundation Autism Research Initiative*. <https://spectrumnews.org/news/corpus-callosum-ages-abnormally-in-autism/>