

# Christiana D. Butera

## EDUCATION

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- 2016 - 2021 University of Southern California, Ph.D.  
Department: Occupational Science  
Advisor: Lisa Aziz-Zadeh, Ph.D.
- 2014 - 2015 Harvard Graduate School of Education, Ed.M.  
Department: Mind, Brain and Education  
Advisor: Gigi Luk, Ph.D.
- 2008 - 2012 Wheaton College, B.A., *cum laude*  
Major: Psychology  
Advisor: Meg Kirkpatrick, Ph.D.

## RESEARCH EXPERIENCE

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- Summer 2024 - Present **Assistant Professor of Research**, University of Southern California, Department of Biokinesiology and Physical Therapy
- Fall, 2023 – Present **Research Resource Employee (scientific grant writer & implementation science project manager)**, University of Southern California, Department of Biokinesiology; Department of Occupational Science; Early Identification and Intervention for Infants Network
- Fall, 2021 – Fall, 2023 **Postdoctoral Scholar**, University of Southern California, Department of Biokinesiology and Physical Therapy, Motor Development Laboratory
- Fall, 2016 – Summer, 2021 **Graduate Research Assistant**, University of Southern California, Center for the Neuroscience of Embodied Cognition, Brain and Creativity Institute
- Fall, 2014 - Summer, 2016 **Graduate Research Assistant**, Harvard Graduate School of Education, Brain Experience Education Laboratory
- Fall, 2014 - Spring, 2015 **Researcher**, Harvard Graduate School of Education, Research Schools International
- Fall, 2012 - Summer, 2014 **Research Specialist**, University of Pittsburgh Medical Center Clinical Neurophysiology Research Laboratory
- Summer, 2012 **Clinical Research Intern**, University of California San Diego Medical Center, HIV Neurobehavioral Research Institute
- Fall, 2011 - Spring, 2012 **Undergraduate Research Assistant**, Wheaton College, Cognitive Neuroscience Lab

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## TEACHING EXPERIENCE

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Summer, 2024	Guest Lecturer, Keck School of Medicine of University Of Southern California, Communication Disorders In Early Childhood “Collaborative Services For EI Clients Panel”, SLP Graduate Course
Spring, 2023	<b>Guest Lecturer</b> , University of Southern California, Biokinesiology and Physical Therapy, graduate course
Summer, 2022 & 2023	<b>Seminar Curriculum Development &amp; Execution</b> , University of Southern California, Biokinesiology and Physical Therapy Department, Undergraduate Summer Seminar Series, 8 undergraduate students
Summer, 2022	<b>Teaching Assistant</b> , University of Southern California, Biokinesiology and Physical Therapy Department, Developmental Motor Control Theory, 8 graduate students
Fall, 2019	<b>Guest Lecturer &amp; Lab Leader</b> , University of Southern California, Occupational Science Department, Social Developmental Neuroscience, 30 masters students
Fall, 2017	<b>Guest Lecturer</b> , University of Southern California, Occupational Science Department, Social Developmental Neuroscience, 30 masters students
Spring, 2016	<b>Teaching Fellow</b> , Harvard Graduate School of Education, Lead teaching fellow, Cognitive Neuroscience and Education Course, 30 masters students

## ATHLETIC & COACHING EXPERIENCE

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Fall, 2021 – Present	<b>Assistant Coach</b> , Westside Aquatics Artistic Swimming Team
Fall, 2021 – Present	<b>Assistant Coach</b> , Los Angeles SeaStars Artistic Swimming Team
Winter, 2019 - Present	<b>Artistic Swimming Performer</b> , Aquabatix USA
Winter, 2018 - Fall, 2018	<b>Lead Coach &amp; Choreographer (30-40 age group)</b> , La Mirada Unsyncables Masters Synchronized Swimming Club
Winter, 2015 – Summer, 2016	<b>Adaptive Special Needs Swim Instructor</b> , Swim Angelfish
Winter, 2015 – Summer, 2016	<b>Lead Coach &amp; Choreographer (13-15 age group)</b> , Cambridge Synchro
Fall, 2013 - Spring, 2016	<b>Assistant Coach</b> , Wheaton College Varsity Synchronized Swimming Team
Winter, 2011 - Summer, 2011	<b>Professional Athlete</b> , USA Synchronized Swimming National Team

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## PROFESSIONAL SKILLS/TRAINING

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### Assessment Experience:

IQ/Cognition/Theory of Mind: Wechsler Abbreviated Scale of Intelligence-2; Kaufman Brief Intelligence Test-2; Assessment of Problem Solving During Play; NEPSY-II; Bayley Scales of Infant and Toddler Development 4

ASD: Autism Diagnostic Observation Schedule- Second Edition (research certified); Autism Diagnostic Interview-Revised (research certified)

Motor/Praxis: Movement Assessment Battery for Children-2; Florida Apraxia Battery for Children; Sensory Integration and Praxis Tests; Gross Motor Function Measure; Bayley Scales of Infant and Toddler Development 4

Neurological: Hammersmith Infant Neurological Examination

**MRI Software**: FSL

**Statistics**: SPSS, Excel

**Presentation**: E-Prime

**MRI Acquisition**: Certified off-hours level II operator

**Behavioral Coding**: Datavyu

**Databasing**: RedCap

## HONORS AND ACTIVITIES

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- 2022      **Gayle G. Arnold Award Nominee**  
American Academy for Cerebral Palsy and Developmental Medicine
- 2018      **Outstanding Poster Award Recipient**  
International Mind, Brain, and Education Society Annual Conference
- Outstanding Poster Award Recipient**  
University of Southern California Dentistry Research Day
- 2016 - 2021      **Research Assistant Department Awards**  
University of Southern California Department of Occupational Science
- 2015      **Co-Organizer of Social Emotional Learning Panel Event**  
Harvard Graduate School of Education
- Event Leader**, Brain Basics, EEG-Brain Awareness Day  
Harvard Graduate School of Education
- 2012      **Caroline Cutler Metcalf Leadership Award**  
Wheaton College
- Linda Francis Epstein Award for Academic and Athletic Excellence**  
Wheaton College
- 2011      **Summer Merit Scholarship Award**

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## PROFESSIONAL ASSOCIATIONS

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American Academy for Cerebral Palsy and Developmental Medicine  
American Occupational Therapy Association  
Cognitive Development Society  
EEG and Clinical Neuroscience Society  
Frontiers In Integrative Neuroscience – Reviewer  
Frontiers in Psychology – Reviewer  
International Mind Brain and Education Society  
International Society for Autism Research – Reviewer  
Organization for Human Brain Mapping  
Society for Neuroscience

## INVITED LECTURES

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- 2022      **Overview of Neuroimaging and Neurophysiology Methods**  
Developmental Discussion Group (USC/UCLA/VCU/UVA)
- Shared Neural Networks in Pediatric Disability: Interrelationships between Motor, Social, and Cognitive Functioning**  
USC Department of Biokinesiology and Physical Therapy Neurorehabilitation Seminar
- 2021      **Sensori-Motor and Socio-Emotional Functioning in Autism Spectrum Disorder**  
USC Motor Development Lab
- Sensori-Motor and Socio-Emotional Functioning in Autism Spectrum Disorder**  
Stanford Center for Interdisciplinary Brain Sciences Research
- 2018      **Motor Performance and Neural Activity of Motor Networks in Children with Autism Spectrum Disorder During Imitation of Motor Hand Actions**  
USC Department of Biokinesiology and Physical Therapy Neurorehabilitation Seminar

## PUBLICATIONS

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### *Peer Reviewed Articles:*

Shipkova, M., **Butera, C.**, Pruyser, A., Flores, G., Kilroy, E., Jayashankar, A., Harrison, L., Aziz-Zadeh, L. (2024) Caregiver and Youth Inter-Rater Assessment Agreement in Autism Spectrum Disorder, Developmental Coordination Disorder, and Typical Development. *Autism Research*, in-press

**Butera, C.**, Delafield-Butt, J., Lu S.C., McGowan, T., Sobota, K., Harrison, L., Kilroy, E., Jayashankar, A., Aziz-Zadeh, L. (2023). Distinguishing ASD from DCD using smart tablet gameplay and investigating the underlying neural mechanisms. *Journal of Autism and Developmental Disorders*,

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- 10.1007/s10803-023-06171-8. Advance online publication.  
<https://doi.org/10.1007/s10803-023-06171-8>
- Raman, N., Ringold, S.M., Jayashankar, A., **Butera, C.D.**, Kilroy, E., Harrison, L., Cermak, S.A., Aziz-Zadeh, L. (2023). Relationships between Affect Recognition, Empathy, Alexithymia, and Co-Occurring Conditions in Autism. *Brain Science*, 13(8), 1161;  
<https://doi.org/10.3390/brainsci13081161>.
- Jayashankar, A., Bynum, B., **Butera, C.**, Kilroy, E., Harrison, L., Aziz-Zadeh, L. (2023). Connectivity differences between inferior frontal gyrus and mentalizing network in autism as compared to developmental coordination disorder and non-autistic youth. *Cortex*, in-press.
- Butera, C.**, Brown, S.E., Burnsed, J., Darring, J., Harper A., Hendricks-Muñoz, K.D., Hyde, M., Kane, A.E., Miller, M., Stevenson, R., Spence, C.M., Thacker, L.R., Dusing, S.C., (2023). Factors Influencing Receipt And Type Of Therapy Services In The NICU. *Behavioral Sciences*. 13(6), 481  
<https://doi.org/10.3390/bs13060481>
- Butera, C.**, Kaplan, J., Kilroy, E., Harrison, L., Jayashankar A., Loureiro, F., & Aziz-Zadeh, L. (2023). The relationship between alexithymia, interoception, and neural functional connectivity during facial expression processing in autism spectrum disorder. *Neuropsychologia*. 180: 108469.  
<https://doi.org/10.1016/j.neuropsychologia.2023.108469>
- Butera, C.**, Rhee, C., Kelly, C., Dhollander, T., Thompson, D., Wisnowski, J., Molinini, R., Sargent, B., Lepore, N., Vorona, G., Bessom, D., Shall, M., Burnsed, J., Stevenson, R., Brown, S., Harper, A., Hendricks-Muñoz, K., Dusing, S. (2022). Effect of A NICU to Home Physical Therapy Intervention on white matter trajectories, motor skills, and problem solving skills of Infants Born Very Preterm: A Case Series. *Journal of Personalized Medicine*.
- Abrams, G., Jayashankar, A., Kilroy, E., **Butera, C.**, Harrison, L., Ring, Houssain, A., Nalbach, A., Cermak, S.A., Aziz-Zadeh, L. (2022). Differences in praxis errors in autism spectrum disorder compared to developmental coordination disorder. *Journal of Autism and Developmental Disorders*.
- Kilroy, E., Gerbella, M., Cao, L., Molfese, P., **Butera, C. D.**, Harrison, L., Jayashankar, A., Rizzolatti, G., Aziz-Zadeh, L. (2022) *Specific tractography differences in autism compared to developmental coordination disorder*. Nature Scientific Reports
- Ringold, S., McGuire, R., Jayshankar, A., Kilroy, E., **Butera, C.**, Harrison, L., Cermak, S., Aziz-Zadeh, L. (2022). Sensory Sensitivities in Developmental Coordination Disorder as compared to Autism Spectrum Disorder and Typically Developing Children. *Brain Sciences*. 12(9):1171. <https://doi.org/10.3390/brainsci12091171>
- Butera, C.**, Harrison, L., Kilroy, E., Jayashankar A., Pruyser, A., Chernikova, M., & Aziz-Zadeh, L. (2022). Relationships Between Alexithymia, Interoception, and Emotional Empathy in Autism Spectrum Disorder. *Autism: The International Journal of Research and Practice*.  
<https://doi.org/10.1177/13623613221111310>
- Kilroy, E., Ring, P., Hossain, A., Nalbach, A., **Butera, C.**, Harrison, L., Jayashankar, A., Vigen, C., Aziz-Zadeh, L., Cermak, S. (2022). Motor Performance, praxis, and social skills in autism spectrum disorder and developmental coordination disorder. *Autism Research*, 1-16. <https://doi.org/10.1002/aur.2774>
- Koziol N., **Butera, C.**, Kretch, K., Harbourne, R., Lobo, M., McCoy, S., Hsu, L., Willet, S., Kane, A., Bovaird J., Dusing, S. (2022). Effect of the START-Play Physical Therapy Intervention on Cognitive Skills Depends on Caregiver-Provided Learning Opportunities. *Physical & Occupational Therapy In Pediatrics*, <https://doi.org/10.1080/01942638.2022.2054301>
- Borelli E., **Butera, C.**, Katirai, A., Adams, T. & Aziz-Zadeh, L. (2022). Impact of motor stroke on novel and conventional action metaphor comprehension. *Brain and Language*, 226, 105081.  
<https://doi.org/10.1016/j.bandl.2022.105081>

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- Harrison, L., Kats, A., Kilroy, E., **Butera, C.**, Jayashankar, A., Keles, U., & Aziz-Zadeh, L. (2021) Classification of Autism Spectrum Disorder improves with the addition of motor and sensory components to the original RDoC framework. *Nature Scientific Reports*, 11, 7839. <https://doi.org/10.1038/s41598-021-87455-w>
- Kilroy, E., Harrison, L., **Butera, C.**, Jayashankar, A., Cermak, S., Kaplan, J., Williams, M., Haranin, E., Bookheimer, S., Dapretto, M and Aziz-Zadeh, L (2020). Unique deficit in embodied simulation in Autism: An fMRI study comparing Autism and Developmental Coordination Disorder. *Human Brain Mapping*, 42, 1532– 1546. <https://doi.org/10.1002/hbm.25312>
- Butera, C.**, Ring, P., Sideris, J., Jayashankar, A., Kilroy, E., Harrison, L., Cermak, S., Aziz-Zadeh, L. (2020). Impact of sensory processing on school performance outcomes in high functioning individuals with Autism Spectrum Disorder. *Mind, Brain, and Education*, 14, 243-254. <https://doi.org/mbe.12242>
- Haigh, S. M., Coffman, B. A., Murphy, T. K., **Butera, C. D.**, Leiter-McBeth, J. R., & Salisbury, D. F. (2019). Reduced late mismatch negativity and auditory sustained potential to rule-based patterns in schizophrenia. *European Journal of Neuroscience*, 49(2), 275-289. <https://doi.org/10.1111/ejn.14274>
- Haigh, S.M., Matteis, M.D., Coffman, B.A., Murphy, T.K., **Butera, C.D.**, Ward, K.L., Leiter-McBeth, J.R. and Salisbury, D.F., (2017). Mismatch negativity to pitch pattern deviants in schizophrenia. *European Journal of Neuroscience*, 46(6), 2229-2239. <https://doi.org/10.1111/ejn.13660>
- Haigh, S. M., Coffman, B. A., Murphy, T. K., **Butera, C. D.**, & Salisbury, D. F. (2016). Abnormal auditory pattern perception in schizophrenia. *Schizophrenia Research*, 176(2), 473-479. <https://doi.org/10.1016/j.schres.2016.07.007>

## **Book Chapters:**

- Butera, C.** & Aziz-Zadeh, L. (2022). Mirror neurons and social implications for the classroom. In Macrine, S.L & Fugate, J.B. (Eds.) *Movement Matters: How Embodied Cognition Informs Teaching and Learning*. (Chapter 17). Cambridge, MA: MIT Press.

## **MANUSCRIPTS UNDER REVIEW**

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- Butera, C.**, Zhou, J., Rosales, M., Dao, A., Freeman, J., Wilson, R., Chow, J., Zhao, H., Dusing, S. Systematic review of the effect of motor intervention on cognition, communication, and social interaction in children with autism spectrum disorder. Manuscript submitted for review.
- Jayashankar, A., Kilroy, E., Ringold, S., **Butera, C.**, McGuire, R., Aziz-Zadeh, L. *Disgust processing differences and their neural correlates in autistic youth*. Manuscript submitted for review.

## **FIRST-AUTHORED PRESENTATIONS, POSTERS & ABSTRACTS**

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- Butera, C.**, Brown, S., Kelly, C., Dhollander, T., Thompson, D.K., Lepore, N., Koziol, N., Sargent, B., Burnsed, J., Shall, M.S., SPEEDI Research Team, Dusing S. (September 2022) *Neuroplastic changes in response to therapy intervention for preterm infants in the first months of life: A pilot study* [Oral presentation]. American Academy for Cerebral Palsy and Developmental Medicine Conference, Las Vegas, Nevada.

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- Butera, C.,** Ring, P., Harrison, L., Kilroy, E., Jayashankar, A., Sideris, J., Cermak, S., Chernikova, M., Kaplan, J., & Aziz-Zadeh, L. (May 2022) *Impact of Sensory Functioning on School Performance and Social-Emotional Outcomes in ASD* [Poster presentation]. International Society for Autism Research Annual Meeting, Austin, Texas.
- Butera, C. & Aziz-Zadeh, L.** (May, 2022). *Mirror neurons and social implications for the classroom*. In Translating Embodied Cognition to the Classroom Symposia [Symposium presentation]. Association for Psychological Science Conference, Chicago, Illinois.
- Butera, C.,** Kilroy, E., Harrison, L., Jayashankar, A., Hossain, A., Nalbach, A., & Aziz-Zadeh, L. (March 2020). *Sensory differences, alexithymia, and neural activity during emotion observation in youth with Autism Spectrum Disorder* [Poster presentation]. American Occupational Therapy Association Annual Conference, Boston, MA, United States. (Conference canceled due to COVID-19).
- Butera, C.,** Kilroy, E., Harrison, L., Jayashankar, A., Ring, P., MacMurdo, R., & Aziz-Zadeh, L. (June 2019). *Alexithymia and neural activity of empathy networks in children with ASD during observation of faces* [Poster presentation]. Organization for Human Brain Mapping Annual Meeting, Rome, Italy.
- Butera, C.,** Kilroy, E., Zeisler, C., Krishnan, S., Gosparini, G., Harrison, L., & Aziz-Zadeh, L. (April 2019). *Therapeutic implications of occupation, sleep hygiene, and neural networks in children with Autism Spectrum Disorder (ASD)* [Poster presentation]. American Occupational Therapy Association, New Orleans, Louisiana
- Butera, C.,** Harrison, L., Zeisler, C., Kilroy, E., & Aziz-Zadeh, L. (September 2018) *Impact of sensory features on school performance outcomes in Autism Spectrum Disorder* [Poster presentation]. International Mind, Brain, and Education Society, Los Angeles, California.
- Butera, C.,** Kilroy, E., Harrison, L., Cermak, S., & Aziz-Zadeh, L. (May 2018). *Motor performance and neural activity of motor networks in children with Autism Spectrum Disorder during imitation of motor hand actions* [Poster presentation]. International Society for Autism Research, Rotterdam, Netherlands.
- Butera, C.,** Kilroy, E., Harrison, L., Zeisler, C., Cermak, S., & Aziz-Zadeh, L. (April 2018). *Motor ability correlates with neural activity during imitation in autism* [Poster presentation]. University of Southern California Dentistry Research Day, Los Angeles, California
- Butera, C. D.,** Delafield-Butt, J., Kilroy, E., Harrison, L., Anzulewicz, A., Sobota, K., & Aziz-Zadeh, L. (March 2017). *Potential movement biomarkers for autism in children and adolescents* [Poster presentation]. USC Herman Ostrow School of Dentistry Research Day, Los Angeles, poster.
- Butera, C. D.,** Hennessey, J., (April 2015). *A case study: grit, growth mindset and metacognition in UK high school students* [Poster presentation]. Student Research Conference at the Harvard Graduate School of Education, Cambridge, MA, poster.
- Butera, C. D.,** Murphy, T. K., & Salisbury, D. F. (September 2013). N400 and intact expectancy priming in schizophrenia. [Abstract]. *Psychophysiology*, 50, 46.

## ADDITIONAL PRESENTATIONS, POSTERS & ABSTRACTS

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### 2022-2023

- Brown, S.E., **Butera, C.D.,** Burnsed, J., Darring, J., Harper A., Hendricks-Muñoz, K.D., Hyde, M., Kane, A.E., Miller, M., Stevenson, R., Spence, C.M., Thacker, L.R., Dusing, S.C., (September, 2023) *Factors Influencing Receipt And Type Of Therapy Services In The NICU*. [Poster

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presentation]. American Academy for Cerebral Palsy and Developmental Medicine Conference, Chicago, Illinois.

Koziol, N.A., **Butera, C.D.**, Pereira, S., Greenberg, N., Hsu, L.Y., Dusing, S.C., (September, 2023) *Evaluating Responsiveness of the Gross Motor Function Measure-66 Item Sets for Young Infants with or at High Risk for CP*. [Oral presentation- presenting author]. American Academy for Cerebral Palsy and Developmental Medicine Conference, Chicago, Illinois.

## 2021-2022

Rhee, C., **Butera, C.**, Sargent, B., Molinini, R., Wisnowski, J., Vorona, G., Bessom, D., Shall, M., Burnsed, J., Stevenson, R.D., Brown, S., Harper, A., Hendricks-Muñoz, K., Dusing, S., (November, 2022) *Brain injury and problem solving skills in very preterm infants: a case series*. [Poster Presentation]. Society for Neuroscience, San Diego, California.

Brown, S., Indmar K., Miller, M., Molinini, R., **Butera, C.**, Dusing, S., (September, 2022). *Motor based problem solving intervention was effective in improving motor skills in a 3 year old with Cerebral Palsy*. [Poster presentation]. American Academy for Cerebral Palsy and Developmental Medicine Conference, Las Vegas, Nevada.

Aziz-Zadeh, L., Kilroy, E., **Butera, C.**, Jayashankar, A., Harrison, L., Lu, S.C., Sobota, K., Delafield-Butt, J. (May 2022). *Unique motor differences in ASD and their structural and functional neurological basis* [Panel Presentation]. International Society for Autism Research Conference Austin, TX, United States.

Ringold S., Jayashankar, A., Kilroy, E., McGuire, R., **Butera, C.**, Aziz-Zadeh, L. (July 2022). *Enhanced Perception is Related to Alexithymia Differentially in Typically Developing Children and Children with Autism Spectrum Disorder (ASD)* [Poster presentation]. International Society for Research on Emotion (ISRE) Conference, Los Angeles, CA, United States.

Ringold, S., Jayashankar, A., Kilroy, E., McGuire, R., **Butera, C.**, Aziz-Zadeh, L. (March 2022). *Personality and Social Touch in Typically Developing and Children with ASD* [Poster presentation]. USC Herman Ostrow School of Dentistry Research Day, Los Angeles, California.

Aziz-Zadeh, L., Borelli, E., **Butera, C.**, (June, 2021). *Impact of Motor Stroke on Action Metaphor Comprehension*. [Poster presentation]. The International Behavioral Neuroscience Society Annual Conference, Puerto Vallarta, Mexico.

Pruyser, A., Chernikova, M., Flores, G., **Butera, C.**, Jayashankar, A., Harrison, L., & Aziz-Zadeh, L. (June, 2021). *Caregiver and Youth Inter-rater Assessment Agreement in Autism Spectrum Disorder and Developmental Coordination Disorder*. [Abstract] 2021 Association for Psychological Science, Virtual Conference.

Bosco, P., Harrison, L., Retico, A., **Butera, C.**, Calderon, S., Muratori, F., Aziz-Zadeh, L. & Delafield-Butt, J., (May, 2021). *Brainstem Morphometric Differences In Children with Autism Spectrum Disorder, Developmental Coordination Disorder and those Typically Developing* [Poster Presentation]. International Society for Autism Research, Virtual Conference.

Kilroy, E., Ring, P., Nalbach, A., Hossain, A., **Butera, C.**, Harrison, L., Jayashankar, A., Aziz-Zadeh, L., & Cermak, S. A. (May, 2021) *Motor, Praxis, and Social Impairments in Children and Adolescents with Autism Spectrum Disorder, Developmental Coordination Disorder, and Typical Development* [Poster Presentation]. International Society for Autism Research, Virtual Conference.

## 2019-2020

Pruyser, A., **Butera, C.**, Harrison, L., Jayashankar, A., & Aziz-Zadeh, L. (July, 2020). *Embodied Emotional Communication is Reduced in Autism Spectrum Disorder*. Talk presented at the 2020 National McNair Virtual Conference at UCLA, Los Angeles, CA

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- Jayashankar, A., Harrison, L., **Butera, C.**, Kilroy, E., Kaplan, J., Hossain, A., Nalbach, A., & Aziz-Zadeh, L. (June, 2020). *Comparison of AROMA and FIX in motion correction for multiband pediatric clinical neuroimaging* [Poster presentation]. 26<sup>th</sup> Annual Meeting of the Organization of Human Brain Mapping, Virtual conference.
- Harrison, L., Kats, A., Kilroy, E., **Butera, C.**, Jayashankar, A., & Aziz-Zadeh, L. (May 2020). *Classification of Autism Spectrum Disorder improves with the addition of motor and sensory components to the original RDoC framework* [Poster presentation]. Social and Affective Neuroscience Society, Santa Barbara, California.
- Kilroy, E., **Butera, C.**, Harrison, L., Jayashankar, A., & Aziz-Zadeh, L. (May 2020) *Motor deficits in Autism Spectrum Disorder related to IFG deactivation* [Poster presentation]. Social and Affective Neuroscience Society, Santa Barbara, CA. (Conference canceled due to COVID-19).
- Harrison, L., Kilroy, E., **Butera, C.**, Jayashankar, A., Hossain, A., Nalbach, A., & Aziz-Zadeh, L. (May 2020). *Differentiation of emotional facial expressions and hand actions in the action observation network* [Poster presentation]. Society for Affective Science, San Francisco, California. (Conference canceled due to COVID-19).
- Jayashankar, A., **Butera, C.**, Harrison, L., Kilroy, E., Nalbach, A., Hossain, A. & Aziz-Zadeh, L. (March, 2020). *Mediation of Occupational Competence by Anxiety & Hyperarousal in Youths With Autism Spectrum Disorder (ASD)* [Poster presentation]. American Occupational Therapy Association Conference, Boston, MA, United States. (Conference canceled due to COVID-19).
- Kilroy, E., Krishnan, S., **Butera, C.**, Harrison, L., Jayashankar, A., Hossain, A. Nalbach, A. & Aziz-Zadeh, L. (March, 2020). *Emotion Production & Neural Correlates of Emotion Processing In Youths With Autism Spectrum Disorder (ASD): A Functional Magnetic Resonance Imaging Study* [Poster presentation]. American Occupational Therapy Association Conference, Boston, MA, United States. (Conference canceled due to COVID 19)
- Krishnan, S., Kilroy, E., **Butera, C.**, Harrison, L., Jayashankar, A., Hossain, A. Nalbach, A. & Aziz-Zadeh, L. (March, 2020). *Intentional Emotional Face Production in Children With Autism Spectrum Disorder Is Related to Social Functioning but Not Affect Recognition* [Poster presentation]. American Occupational Therapy Association Conference, Boston, MA, United States. (Conference canceled due to COVID 19)
- Kilroy, E., **Butera, C.**, Harrison, L., Jayashankar, A., Ring, P., MacMurdo, R., Cermak, S., & Aziz-Zadeh, L. (June 2019). *Motor skills and the action observation network in children with Autism Spectrum Disorder and Developmental Coordination Disorder* [Poster presentation]. Organization for Human Brain Mapping Annual Meeting, Rome, Italy.
- Harrison, L., Kats, A., **Butera, C.**, Kilroy, E., Jayashankar, A., Ring, P., MacMurdo, R., & Aziz-Zadeh, L. (April 2019). *Sensorimotor domain improves original RDoC classification of ASD from DCD* [Poster presentation]. USC Herman Ostrow School of Dentistry Research Day, Los Angeles, California.
- Jayashankar, A., Harrison, L., **Butera, C.**, Kilroy, E., Kaplan, J. & Aziz-Zadeh, L. (April 2019). *Comparison of two automated motion correction strategies in autism neuroimaging* [Poster presentation]. USC Herman Ostrow School of Dentistry Research Day, Los Angeles, California.
- Kilroy, E., **Butera, C.**, Zeisler, C., Harrison, L., & Aziz-Zadeh, L. (April 2019). *Children with Autism Spectrum Disorder process action imitation differently depending on motor difficulties: implications for individualized therapy* [Panel Presentation] American Occupational Therapy Association, New Orleans, Louisiana

## 2017- 2018

- Harrison, L., Kats, A., Kilroy, E., **Butera, C.**, Zeisler, C., & Aziz-Zadeh, L. (November 2018). *Classification of Autism Spectrum Disorder improves with addition of motor and sensory*

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- components to the Research Domain Criteria (RDoC) framework* [Poster presentation]. Society for Neuroscience, San Diego, California.
- Harrison, L., Kilroy, E., **Butera, C.**, Zeisler, C., & Aziz-Zadeh, L. (November 2018). *Action observation network activity modulated by social content of action stimulus* [Poster presentation]. Society for Social Neuroscience, San Diego, California.
- Kilroy, E., **Butera, C.**, Harrison, L., Zeisler, C., Cermak, S. & Aziz-Zadeh, L. (May 2018). *Reduced neural activity of social and motor networks in children and adolescents with Autism Spectrum Disorder and Developmental Coordination Disorder during observation and imitation of social and motor actions* [Poster presentation]. International Society for Autism Research, Rotterdam, Netherlands.
- Harrison, L. Spunt, R., Kilroy, E., Concha, A., Goo, E., **Butera, C.**, Adolphs, R., & Aziz-Zadeh, L. (May 2017). *Preliminary evidence suggests specific impairments in explicitly-evoked social inferences in adults and children with autism* [Poster presentation]. International Meeting for Autism Research, San Francisco, California.
- Kilroy, E., Harrison, L., Concha, A., Goo, E., **Butera, C.**, Cermak., and Aziz-Zadeh., L. (May 2017) *Reduced neural activity in the action observation and mentalizing networks in children and adolescents with Autism Spectrum Disorder* [Poster presentation]. International Meeting for Autism Research, San Francisco, California.
- Kilroy, E., Harrison, L., Concha, A., Goo, E., **Butera, C.**, Cermak, S., and Aziz-Zadeh, A. (March 2017). *Social skills related to motor skills in children and adolescents with Autism Spectrum Disorder* [Poster presentation]. Social and Affective Neuroscience Society, Los Angeles, California.

## 2015-2016

- Motroni, E., **Butera, C. D.**, Leon Guerrero, S., Haynes C., Luk, G. (2015, October). *Adapted trails-making task: a developmentally sensitive measure for children with diverse language experiences* [Poster presentation]. Cognitive Development Society annual meeting, Columbus, OH.
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