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POSITIONS

- 2020- Associate Professor
Clinical Psychology (APA and PCSAS accredited), Neuroscience and Behavior
Department of Psychological Sciences, Purdue University
- 2020- Director, Purdue Autism Research Center
- 2015-2020 Assistant Professor
Clinical Psychology (APA and PCSAS accredited), Neuroscience and Behavior
Department of Psychological Sciences, Purdue University
- 2014-2015 Predoctoral Clinical Psychology Intern, Child Track
Charleston Consortium, Medical University of South Carolina (APA-accredited)

EDUCATION

- Ph.D. University of South Carolina. Columbia, SC (2015)
Degree: School Psychology (APA and NCATE Accredited)
Quantitative Psychology Methods Certificate of Emphasis
- M.A. University of South Carolina. Columbia, SC (2011)
Degree: School Psychology
- B.S. Furman University, Greenville, SC (2009)
Degree: Psychology

SELECT AWARDS, FELLOWSHIPS & HONORS

- 2021 Nominee, Favorite Faculty Awards, Purdue Residence Life
- 2020 Winner, Purdue Institute for Integrative Neuroscience Grand Challenges Competition
With MPI McCormick, led an interdisciplinary team of life scientists and engineers to develop novel development pipeline for wearable tech solutions that will address acute needs for clinical trials in autism and both neurogenetic and neurodegenerative diseases.
- 2019 Winner, Purdue Discovery Park Big Ideas Challenge
Selected from campuswide competition to lead a team of 35+ faculty to develop a remote assessment of bioenvironmental risks for autism. Project has resulted in multiple foundation and NIH grants led by both PI Kelleher and other members of the project ecosystem.
- 2019 Purdue University Focus Award (awardee: Purdue Autism Cluster) for disability accessibility
- 2017 Most Distinguished Faculty for Undergraduate Research Mentorship, Purdue Residence Life
Nominated by students for exceptional undergraduate research mentorship.
- 2013 University of South Carolina Pen Award for Publication
- 2011-12 President, Psychology Graduate Student Association, University of South Carolina
- 2012 University of South Carolina Master's Thesis Provost Award
- 2009 Brewer Scholar in Psychology, awarded to the outstanding senior major, Furman University

CURRENT AND RECENT RESEARCH SUPPORT

CURRENT RESEARCH SUPPORT

Community-Academic Partnership to Address Environmental Contamination and Health \$3,215,500
9/20/22-9/19/27
R01ES032463, National Institute of Environmental Health Sciences
Role: Co-Investigator; PI Ellen Wells

This project aims to use community participatory methods to examine impact of environmental metals on health outcomes among families residing in geographic areas impacted by high levels of contamination.

Modeling Functional Genomics of Susceptibility to the Persistent Effects of Environmental Toxins in an Elderly Rural Indiana Neurodegenerative Cohort \$3,737,946
9/15/22-5/31/27
R01AG080917-01, National Institute of Aging
Role: Co-Investigator; PI Aaron Bowman

This project seeks to improve rural community health by examining complex interactions between genetic and environmental factors related to Parkinson's, Alzheimer's, and other age-related neurodegenerative diseases.

Optimizing a Personalized Health Approach for Virtually Treating High-Risk Caregivers during COVID-19 and beyond \$2,973,408
9/23/22-9/22/25
R01HD105502-01, National Institute of Child Health and Human Development
Role: Principal Investigator

This project leverages personalized health technology to develop and deploy a virtual treatment system to support the needs of 1,000 caregivers and their children with rare genetic syndromes during the COVID-19 pandemic and beyond. A secondary aim is to examine the impact of peer coaching on treatment outcomes.

Validating a Scalable, Open Science Framework for Collecting Laboratory-Grade Data Remotely in Specialized Populations \$420,244
9/1/21-8/31/23
R21HD106701, National Institute of Child Health and Human Development
Role: Principal Investigator

This project aims to develop scalable, open-science solutions for scaling PI Kelleher's PANDABox telehealth assessment framework (K23MH111955) for widespread use, including through creation of an online collaborative learning community and companion processing software.

Telehealth Assessment of Syndromic Autism Risk in Infants \$913,221
6/15/17-5/31/22
K23MH111955, National Institute of Mental Health
Role: Principal Investigator
NCE: 5/31/23

This early career award funded Kelleher to develop a novel remote assessment protocol for "bringing the lab home" to rare disorder communities. The resulting assessment tool – PANDABox (Parent Assisted Neurodevelopmental Assessment) is being used across multiple projects at Purdue and beyond, and Kelleher obtained a follow-up grant (R21HD106701A) to develop open-science solutions to further its scalability.

The Influence of Health Behaviors and Social Support on Mental Health Treatment Uptake Among High-Risk Caregivers during COVID-19 \$15,000
2/10/22-2/9/23
Purdue Women's Global Health Institute
Purdue Institute of Inflammation, Immunology, and Infectious Disease
Role: Principal Investigator

This project aims to use ecological momentary assessment data, collected via smartphones, to examine how health behaviors and social support intersect with telemental health treatment uptake among caregivers.

Ingestive Behaviors and Gut Microbiota in Children with Angelman Syndrome	\$100,000
Angelman Syndrome Foundation	8/1/21-7/30/22
Role: Principal Investigator with MPI Anita Panjwani, Regan Bailey, Steve Lindemann	NCE: 12/31/22

This project applies Kelleher's remote assessment kit for biological and environmental risks – POckIT – to both characterize gut function in Angelman syndrome and discern how gut function relates to clinical features. This project is led by MPI Panjwani, an early career postdoc transitioning to a faculty position, under Kelleher's primary mentorship. POckIT was developed through Kelleher's Discovery Park Big Ideas Challenge Grant.

Caregiver Well-Being in Prader Willi Syndrome (Project WellCast 1 of 2)	\$56,700
Foundation for Prader Willi Research	10/1/21-9/30/22
Role: Principal Investigator with MPI Dan Foti, Kelly LeMaire	

Caregiver Well-Being in Williams Syndrome (Project WellCast 2 of 2)	\$37,500
Williams Syndrome Association	10/1/21-12/31/22
Role: Principal Investigator with MPI Dan Foti, Kelly LeMaire	

Project WellCast – jointly funded by two patient-focused organizations – aims to establish feasibility and efficacy of partnering with graduate training clinics to deploy evidence based telemental health treatments to high-risk caregivers of children with rare disorders. This project also aims to examine the degree to which smartphone-based ecological momentary assessments can be leveraged to characterize treatment response and inform future personalized health approaches.

MAJOR PROPOSALS UNDER REVIEW AND/OR PROGRAM STAFF CONSIDERATION

UNDER REVIEW: How the input shapes vocal development in children at genetic risk for language disorders	\$3,817,955
R01 submitted to National Institute of Child Health and Human Development	1/1/23-12/31/27
Role: Principal Investigator with MPI Amanda Seidl	

JIT REQUESTED BY PROGRAM STAFF: Touch to learn: How sensory cues impact word segmentation and learning	\$423,997
R21 submitted to National Institutes of Health	1/1/23-12/31/24
Role: Co-Investigator; PI Amanda Seidl	

SELECT COMPLETED RESEARCH SUPPORT

Patient-Centered Biosensors to Advance Clinical Research in Autism and Additional NeuroΔ Disorders	\$125,000
Purdue Institute for Integrative Neuroscience Grand Challenges Competition	8/1/20-4/15/22
Role: Principal Investigator with MPI Carolyn McCormick	NCE: 8/31/22

Analysis of Early Vocalization Features in Children at High Risk for ASD	\$135,000
F31DC018219, National Institute of Deafness and Communication Disorders	8/1/19-7/31/22
Role: Primary Sponsor; PI Lisa Hamrick; Co-Sponsors Amanda Seidl, Nancy Brady	

From Cell Cultures to Community Cultures: Bringing a Personalized Health Approach to Autism	\$333,100
Discovery Park Big Ideas Challenge 2.0	7/1/19-12/30/21
Role: Principal Investigator	NCE: 5/1/22

Remote Assessment of Dup15q Syndrome: Feasibility and Reliability	\$25,000
Dup15q Foundation	3/1/20-3/1/22

Role: Co-Investigator; PI Charlotte DiSteffano

Evaluating the Effect of Service Dogs on Children with ASD and their Caregivers

Role: Co-Investigator; PI Maggie O'Haire (applies to all subprojects; dates vary) 9/1/19-12/31/21
Nestle Purina PetCare Global Resources \$29,996
Indiana CTSI Pediatrics Project Development Team UL1TR002529 \$18,184
HAB19-011, Human Animal Bond Research Initiative (HABRI) Foundation \$85,493

Developing a novel protocol for home-based electroencephalography assessment of families affected by Angelman syndromes

Indiana CTSI Proposal Development Team \$14,318
9/29/20-9/28/21
Role: Co-Investigator; PI Dan Foti

Remote Assessment for Latinx Infants and Children at High Risk for Developmental Disabilities

North Carolina Translational and Clinical Sciences Institute (NC TraCS) \$50,000
6/1/20-5/31/21
Role: Co-Investigator; MPIs Danielle Toth, Anne Wheeler, Jessica Kinard

Family Adaptation to COVID-19

College of Health and Human Sciences COVID-19 Rapid Response Grant \$10,000
4/6/20-5/5/21
Role: Principal Investigator

Prevalence and Stability of Autism in Fragile X Syndrome

R01MH090194, National Institute of Mental Health, \$3,550,989 total \$45,284 subcontract
3/1/16 – 3/1/21
Role: Co-Investigator; PI Jane Roberts

Piloting a Telehealth-Based Caregiver Intervention for Angelman Syndrome

Angelman Syndrome Foundation \$50,000
2/6/20-2/5/21
Role: Principal Investigator with MPI Kelly LeMaire

Using Citizen Science to Generate a Large-Scale Corpus of Vocal Maturity in Typical and Atypical Language Learners

Kinley Trust \$20,000
4/1/19-12/31/20
Role: Principal Investigator; Co-I Amanda Seidl

Specifying a Genetic and Neurobiological Pathway for Depression Risk

Purdue Office of the Executive Vice President for Research New NIH R01/U01 Program \$29,999
8/1/19-7/31/20
Role: Co-Investigator; PI Dan Foti

Characterizing Early Vocal Features and ASD in Neurogenetic Syndromes

College of Health and Human Sciences Purdue Research Foundation #60000025 \$30,657
8/1/19-7/31/20
Role: Faculty PI; Initial Awardee Lisa Hamrick, Final Awardee Wei Siong Neo

Piloting Remote Assessment Techniques in Infants with the *FMR1* Premutation

550KR181813, North Carolina Translational and Clinical Sciences Institute (NC TraCS) \$50,000
8/1/18-7/31/19
Role: Co-Investigator; MPIs Heather Hazlett and Casey Okoniewski

Implicit Learning Deficits in Adults at High Genetic Risk for Depression

Indiana Clinical and Translational Sciences Institute \$10,000
7/1/17-6/31/19
Role: Co-Investigator; PI Dan Foti

Building Community through the Purdue Autism Research Conference (PARC)

Purdue University Faculty Cluster Hire Community-Building Program, Provost Initiative \$13,735
10/30/17-5/15/19
Role: Principal Investigator with MPIs Mandy Rispoli, Brandon Keehn

Non-Laboratory Equipment Program Proposal

\$4,521

Purdue Office of the Executive Vice President for Research and Partnerships 2/8/18-5/31/18
Role: Co-Investigator; PI Susan South

Acoustic Properties of Vocalizations in Infants at Elevated Risk for ASD \$6,800
Gadomski Foundation Collaborative Autism Research Grant 10/1/16-5/1/17
Role: Principal Investigator with MPIs Amanda Seidl, Lisa Goffman

Behavioral and Biomarkers of Attention in High Risk Infants \$104,901
F31MH095318, National Institute of Mental Health 11/15/11 – 8/15/14
Role: Principal Investigator; Primary Mentor Jane Roberts, Co-Mentor John Richards

MENTORED STUDENT FELLOWSHIPS AND AWARDS

Graduate Students

2018-2022 Lisa Hamrick, Ruth Kirschstein F31 Fellowship (3 years), NIH, \$135,000
2019-2021 Jennifer Hensel, CTSI Predoctoral Fellowship (2 years)
2019-2020 Wei Siong Neo (original: Lisa Hamrick), Purdue Research Foundation Fellowship, \$30,657
2018-2020 Taylor Halligan, Doctoral Fellowship (2 years), Purdue University Graduate School, \$39,000
2017-2018 Wei Siong Neo, Ross Fellowship (1 year), Purdue University Graduate School, \$18,538
2016-2018 Lisa Hamrick, Frederick N. Andrews Fellowship (2 years), Purdue Graduate School, \$37,438

Undergraduate Students

2021 Wajeeha Sahar, Purdue Autism Research Center Summer Scholar Award
2020 Cameron Dartis, Purdue Autism Research Center Summer Scholar Award
2019 Tessa Garwood, National Fragile X Association Summer Scholar
2018 Elissa Montierro, Purdue Summer Research Opportunity Program

Purdue College of Health and Human Sciences Honors Scholar Program

Kate Schraeder (2020-21), Alexis Morell (2019-20)

Purdue Department of Psychological Sciences Research Focused Honors Program

Faith Anthony (2022-23), Sherry Zhang (2021-22), Alexis Morell (2019-20), Sam Howell (2019-20), Tessa Garwood (2019-20)

Purdue Department of Psychological Sciences Undergraduate Research Grants

Cameron Dartis (2020), Ellie Bonanno (2019), Tessa Garwood (2019)

University of South Carolina Magellan Scholars Program

Claire Harryman (2014-15), Sara Deal (2012-13)

SCHOLARLY WORK

PUBLISHED AND IN-PRESS MANUSCRIPTS

*Kelleher is first and/or senior author

1. Rispoli, M., Shannon, E., Voorhis, C., Lang, R., Mason, R., & **Kelleher, B.** (in press). Telehealth training in naturalistic communication intervention for mothers of children with Angelman syndrome. *Advances in Neurodevelopmental Disorders*.
2. **Kelleher***, B. L., Protho, T., Hamrick, L., Smith, D. DeMaria, A., Rispoli, M. & McCormick, C. (in press). Remotely monitoring treatment outcomes in patients with neurogenetic syndromes: A family-centered perspective. *International Review of Research in Developmental Disabilities*.
3. Lane, S. P., & **Kelleher, B. L.** (2022). Statistical power for longitudinal developmental trajectories: The (non-) impact of age matching within measurement occasions. *Developmental Psychology*. Advance online publication. <https://doi.org/10.1037/dev0001459>

4. DeMaria, A., Dykstra, C., King, H., Felicicchia, R., Ludwig, H., **Kelleher, B. L.**, McCormick, C. (2022). Reproductive health decision-making among women at increased likelihood of having a child with Autism. *Women's Reproductive Health*. <https://doi.org/10.1080/23293691.2022.2054669>
5. Neo, W. S. & **Kelleher*, B. L.** (2021). Did you say my name? Congruency of 12-month-old infants' behavioral and cardiac responses to name. *Biological Psychology*. doi: 10.1016/j.biopsycho.2021.108207.
6. Hill, K. B., Neo, W. S., Deming, E., Hamrick, L., **Kelleher, B. L.**, & Foti, D. (2021). Mother-infant convergence of event-related potentials elicited by face and object processing. *Developmental Psychobiology*. doi: 10.1002/dev.22211
7. Panjwani, A. A., Bailey, R. L., & ***Kelleher, B. L.** (2021). COVID-19 and food-related outcomes in children with autism spectrum disorder: Disparities by income and food security status. *Current Developments in Nutrition*. <https://doi.org/10.1093/cdn/nzab112>
8. Panjwani, A., Bailey, R., & ***Kelleher, B.** (2021). COVID-19 and behavior in children with autism spectrum disorder: Disparities by income and food security status. *Research in Developmental Disabilities*, 115, e104002.
9. Semenzin, C., Hamrick, L., Seidl, A., **Kelleher, B.**, Cristia, A. (2021). Describing vocalizations in young children: A big data approach through citizen science annotation. *Journal of Speech, Language, and Hearing Research*, 64, 2401-2416. 10.31219/osf.io/z6exv
10. Bland, A., Husain, Z., Martin-O'Dell, B., Gronceski, S., *Hamrick, L., & ***Kelleher, B.** (2021). Parenting Stress and Language Development in Children: Associations in Angelman Syndrome and Down Syndrome. *Journal of Purdue Undergraduate Research*, 22-32.
11. Neo, W. S., Suzuki, T., & ***Kelleher, B. L.** (2021). Structural validity of the Child Behavior Checklist (CBCL) for preschoolers with neurogenetic syndromes. *Research in Developmental Disabilities*, 109 (10384), 1-10.
12. ***Kelleher, B.L.**, & Wheeler, A.C. (2020). Outcome measures for intellectual disability: Where we have been, where we are now, and where we are going. *American Journal on Intellectual and Developmental Disabilities*, 125, 413-417.
13. Thurm, A., **Kelleher, B.L.**, & Wheeler, A.C. (2020). Outcome measures for core symptoms of intellectual disability: State of the field. *American Journal on Intellectual and Developmental Disabilities*, 125, 418-433.
14. ***Kelleher, B.**, Halligan, T., Witthuhn, N., Neo, W.S., Hamrick, L., & Abbeduto, L. (2020). Bringing the laboratory home: PANDABox telehealth-based assessment of neurodevelopment risk in children, *Frontiers Psychology*, 11(1634), 1-14.
15. Hamrick, L.R., Haney, A.M., **Kelleher, B.L.**, & Lane, S.P. (2020). Using generalizability theory to evaluate the comparative reliability of developmental measures in neurogenetic syndrome and low-risk populations. *Journal of Neurodevelopmental Disorders*, 12(6), 1-15.
16. ***Kelleher, B. L.**, Hogan, A., Ezell, J., Caravella, K., Schmidt, J., Wang, Q., & Roberts, J. E. (2020). Anxiety and threat-related attentional biases in adolescents with fragile X syndrome. *Journal of Neurodevelopmental Disorders*, 64, 296-302.
17. ***Kelleher, B. L.**, Halligan, T. A., Garwood, T. E., Howell, S. M., Martin-O'Dell, B. M., Swint, A. M., Shelton, L. A., Shin, J. J. (2020). Brief report: Assessment experiences of children with neurogenetic syndromes: Caregivers' perceptions and suggestions for improvement. *Journal of Autism and Developmental Disorders*, 50, 1443-1450.
18. Hill, K. E., Neo, W. S., Hernandez, A., Hamrick, L., ***Kelleher, B. L.**, & ***Foti, D.** (2020). Intergenerational transmission of frontal alpha asymmetry among mother-infant dyads. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5, 420-428.
19. Hahn, L. H., Hamrick, L. R., **Kelleher, B. L.**, & Roberts, J. E. (2020). Autism spectrum disorder-associated behavior in infants with Down syndrome. *Journal of Health Science and Education*, 4, 1-6.
20. Semenzin, C., Hamrick, L., Seidl, A., **Kelleher, B.**, & Cristia, A. (2020). Towards large-scale data annotation of audio from wearables: Validating Zooniverse annotations of infant vocalization types. *IEEE Spoken Language Technology*.
21. Wall, C. A., Hogan, A. L., Will, E., McQuillin, S., **Kelleher, B. L.**, & Roberts, J. (2019). Early negative affect in males and females with FXS: Implications for anxiety and autism. *Journal of Neurodevelopmental Disorders*, 11(22), 1-13.

22. Hamrick, L., Seidl, A., & ***Tonnsen, B.L.** (2019). Acoustic properties of early vocalizations in infants with fragile X syndrome. *Autism Research, 12*, 1663-1679.
23. Hogan, A., Crawford, H., Fairchild, A., **Tonnsen, B.**, Brewe, A., O'Connor, S., Roberts, D. J., & Roberts, J. E. (2019). Social avoidance emerges in infancy and persists into adulthood in fragile X syndrome. *Journal of Autism and Developmental Disorders, 49*, 3753-3766.
24. Hamrick, L. R. & ***Tonnsen, B. L.** (2019). Validating and applying the CSBS-ITC in neurogenetic syndromes. *American Journal of Intellectual and Developmental Disabilities, 124*, 263-285.
25. Neo, W. S. & ***Tonnsen, B. L.** (2019). Challenging behaviors in toddlers and preschoolers with Angelman, Prader-Willi, and Williams syndromes. *Journal of Autism and Developmental Disorders, 4*, 1717-1726.
26. Kellerman, A. M., Schwichtenberg, A. J., **Tonnsen, B. L.**, Posada, G., & Lane, S. P. (2019). Dyadic interactions in children exhibiting the broader autism phenotype: Is the BAP distinguishable from typical development? *Autism Research, 12*, 469-481.
27. Roberts, J.E., Crawford, H., Will, E. A., Hogan, A., McQuillin, S.D., **Tonnsen, B. L.**, O'Connor, S. L., Roberts, D. A., Brewe, A. (2019). Infant social avoidance predicts autism but not anxiety in fragile X syndrome. *Frontiers Psychiatry, 10(199)*, 1-10.
28. ***Tonnsen, B. L.**, Wheeler, A. C., Rague, L., & Roberts, J. E. (2018). Infant temperament in the *FMR1* premutation and fragile X syndrome. *Journal of Clinical Child and Adolescent Psychology, 48*, 412-422.
29. Klusek, J., Porter, A., Abbeduto, L., Adayev, T., Tassone, F., Mailick, M., Glicksman, A., **Tonnsen, B. L.**, & Roberts, J. E. (2018). Curvilinear association between language disfluency and *FMR1* CGG repeat size across the normal, intermediate, and premutation range. *Frontiers in Genetics, 9*, 344. doi: 10.3389/fgene.2018.00344
30. Rague, L. R., Caravella, K. C., Klusek, J., **Tonnsen, B. L.**, & Roberts, J. E. (2018). Early gesture use in fragile X syndrome. *Journal of Intellectual Disability Research, 62*, 625-636.
31. ***Tonnsen, B.L.**, Richards, J.E., & Roberts, J.E. (2018). Heart rate-defined sustained attention in infants at risk for autism. *Journal of Neurodevelopmental Disorders, 10*, 7-20.
32. ***Tonnsen, B.L.**, Scherr, J., Reisinger, D., Roberts, J.E. (2017). Behavioral markers of emergent stranger anxiety in infants and toddlers with fragile X syndrome. *Journal of Autism and Developmental Disabilities, 47*, 3646-3658.
33. Abel, E. & ***Tonnsen, B.L.** (2017). Sleep phenotypes in infants and toddlers with neurogenetic syndromes. *Sleep Medicine, 38*, 130-134.
34. Lowell, E., **Tonnsen, B.L.**, Bailey, D.B., & Roberts, J.E. (2017). The effects of optimism, religion, and hope on mood and anxiety disorders in women with the *FMR1* premutation. *Journal of Intellectual Disability Research, 61*, 916-927.
35. Guy, M.W., Richards, J.E., **Tonnsen, B.L.**, Roberts, J.E. (2017). Neural correlates of face processing in etiologically-distinct 12-month-old infants at high-risk of autism spectrum disorder. *Developmental Cognitive Neuroscience, 29*, 61-71.
36. ***Tonnsen, B.L.**, Boan, A.D., Bradley, C.C., Charles, J., Cohen, A., & Carpenter, L.A. (2016). Prevalence of autism spectrum disorders among children with intellectual disabilities. *American Journal of Intellectual and Developmental Disabilities, 121*, 6, 487-500.
37. ***Tonnsen, B. L.** & Roberts, J.E. (2016). Emergent anxiety through the lens of fragile X. *International Review of Research in Developmental Disabilities, 51*, 41-83.
38. Roberts, J.E., **Tonnsen, B.L.**, McCary, L.M., Long, A., Golden, R. N., & Bailey, D. B. (2016). Trajectories and predictors of depression and anxiety disorders in women with the *FMR1* premutation. *Biological Psychiatry, 79*, 850-857.
39. Roberts, J.E., **Tonnsen, B.L.**, McCary, L.M., Caravella, K., Shinkareva, S. (2016). Autism symptoms in infants with fragile X syndrome. *Journal of Autism and Developmental Disorders, 46*, 3830-3837.
40. ***Tonnsen, B. L.**, & Hahn, E. R. (2016). Middle school students' attitudes toward a peer with autism: Effects of social acceptance and physical inclusion. *Focus on Autism and Other Developmental Disabilities, 31*, 262-274.
41. ***Tonnsen, B. L.**, Grefer, M. L., Hatton, D. D. & Roberts, J. E. (2015). Developmental trajectories of attentional control in preschool males with fragile X syndrome. *Research in Developmental Disabilities, 36*, 62-71.
42. ***Tonnsen, B. L.**, Cornish, K. M., Wheeler, A. C., & Roberts, J. E. (2014). Maternal predictors of anxiety risk in young males with fragile X. *American Journal of Medical Genetics, Part B: Neuropsychiatric Genetics, 164*, 399-409.

43. Roberts, J. E., **TonnSEN, B. L.**, Robinson, M., McQuillin, S., & Hatton, D. D. (2014). Temperament factor structure in fragile X syndrome: The Child Behavior Questionnaire. *Research in Developmental Disabilities, 35*, 563-571.
44. ***TonnSEN, B. L.**, Malone, P., Hatton, D., & Roberts, J. E. (2013). Early negative affect predicts anxiety, not autism, in young boys with fragile X syndrome. *Journal of Abnormal Child Psychology, 41*, 267-80.
45. ***TonnSEN, B. L.**, Shinkareva, S., Deal, S., Hatton, D. & Roberts, J. E. (2013). Biobehavioral indicators of social fear in young children with fragile X syndrome. *American Journal of Intellectual and Developmental Disabilities, 118*, 447-459.
46. ***TonnSEN, B. L.**, Richards, J. E., & Roberts, J. E. (2012). Experimental and parent-reported self-regulation in infants at high and low risk for autism. *Developmental Medicine & Child Neurology, 54*, 19.
47. Roberts, J. E., **TonnSEN, B. L.**, Robinson, A. N., & Shinkareva, S. (2012). Heart activity and autistic behaviors in infants with fragile X syndrome. *International Journal of Psychophysiology, 85*, 348-349.
48. McCary, L. M., Grefer, M., Mounts, M., Robinson, A., **TonnSEN, B. L.**, & Roberts, J. E. (2012). The importance of differential diagnosis in neurodevelopmental disorders: Implications for IDEIA. *The School Psychologist, 66*, 19-24.
49. Roberts, J. E., **TonnSEN, B. L.**, Robinson, A. R., & Shinkareva, S. (2012). Heart activity and autistic behavior in toddlers with fragile X syndrome. *American Journal of Intellectual and Developmental Disabilities, 117*, 90-102.
50. Roberts, J. E., Miranda, M., Boccia, M., Magruder, H., **TonnSEN, B. L.**, & Hatton, D. D. (2011). Treatment effects of stimulant medication in young boys with fragile X syndrome. *Journal of Neurodevelopmental Disorders, 3*, 175-84.

INVITED PRESENTATIONS

1. **Kelleher, B. L.** (2022, August). *Remotely Monitoring the Early Development of Children with Angelman Syndrome*. Invited presentation at the Angelman Syndrome Foundation Annual Meeting, Austin, TX.
2. **Kelleher, B. L.** (2022, April). *Family-centered approaches to remote neurodevelopmental assessment*. Invited presentation to the International Collaboration for Diagnostic Evaluation of Autism group. Virtual.
3. **Kelleher, B. L.** (2021, March). *Remote Assessment Tools for Assessing Development and Change in Neurodevelopmental Populations*. Invited presentation to the Center for Autism Research and Treatment at University of California, Los Angeles. Virtual.
4. **Kelleher, B. L.** (2020, July). *Virtually Conducting Laboratory-Grade Clinical Science using PANDABox*. Invited keynote at the International Congress for Infant Studies Biannual Conference. Virtual.
5. **Kelleher, B. L.** (2019, October). *Supporting Maternal and Child Health through Telehealth-Based Research in Low-Incidence Neurodevelopmental Disorders*. Invited presentation at the Women's Global Health Institute Women's Health Symposium, West Lafayette, IN.
6. **Kelleher, B. L.** (2019, August). *From Cell Cultures to Community Cultures: Bringing Precision Health to Autism*. Invited featured presentation at the 4th annual Discovery Park Convergence Conference, West Lafayette, IN.
7. **TonnSEN, B. L.** (2019, July). *Heart-Rate Defined Sustained Attention for Clinical Research Applications*. Invited two-day research workshop at the University of South Carolina, Columbia, SC.
8. **TonnSEN, B. L.** (2019, July). *Update on Telehealth-Based Outcome Measures for Angelman Syndrome*. Invited research presentation at the Angelman Biomarker and Outcome Measure Alliance, Louisville, KY.
9. **TonnSEN, B. L.** (2019, July). *Bringing the Lab Home: Telehealth-Based Outcome Measures for Fragile X Syndrome*. Invited research presentation at the Tri-State Fragile X Alliance Family Conference, Cincinnati, OH.
10. **TonnSEN, B.L.** (2019, March). *O que a frequência cardíaca nos pode ensinar sobre a Síndrome Congênita da Zika?* [What can heart rate teach us about Congenital Zika Syndrome?]. Invited research presentation for Project Semear research team at the Altino Ventura Foundation, Recife, Brazil. Presented remotely.
11. **TonnSEN, B.L.** (2018, October). *Telehealth-Based Assessment of Sustained Attention in Infants at High-Risk for Autism*. Invited "Faces of the Future" Presentation, Society for Research in Psychophysiology, Quebec City, Canada.

12. **Tonnson, B.L.** (2017, February). *Mapping Mental Health Risks through Neurogenetic Syndromes*. Invited colloquium, Brummer Lecture Series, Murray State University, Murray, KY.
13. **Tonnson, B.L.** (2017, February). *Autism for the Mental Health Professional: Practical Tips for Supporting Children and Families*. Invited continuing education workshop at Murray State University, Murray, KY.
14. **Tonnson, B. L.** (2014, February). *Behavioral and Biological Markers of Neurodevelopmental Disorders*. Invited colloquium at Furman University Department of Psychology, Greenville, SC.

SELECT SYMPOSIA AND PAPER PRESENTATIONS

1. **Kelleher, B.L.** *Monitoring and treating high-risk caregivers during COVID-19: From ecological assessment to trainee-delivered telemental health treatment* (2022, May). Presented at the Charleston Consortium Alumni Research Symposium, Charleston, SC.
2. **Kelleher, B.L.**, McCormick, C., Peskova, V., Cloutier, C., Foti, D., Schwichtenberg, A. J., Neo, W. S., Harold, R., Galvez-Ortega, K., & Holiett, O. (2021, December). *Bringing together caregivers, clinical scientists, and engineers to improve wearable biosensors for clinical trials in Angelman syndrome* [Oral presentation]. 2021 Foundation for Angelman Syndrome Therapeutics Translational Research Symposium and Angelman Syndrome Biomarker and Outcome Measure Consortium Scientific Meeting, Austin, TX.
3. Hamrick, L.R. Seidl, A., & **Kelleher, B.L.** (2021, October). Exploring the Interplay of ASD and Early Vocal Development in Preschoolers with FXS. Presented at the Midwest Fragile X Research Exchange, Ann Arbor, MI.
4. Hamrick, L.R. Seidl, A., & **Kelleher, B.L.** (2021, August). Characterizing Vocal Features of Children with Angelman Syndrome. Presented at the DARCLE Monthly Meeting [virtual].
5. Semenzin, C., Hamrick, L.R., Seidl, A., **Kelleher, B.L.**, & Cristia, A. (2021, April). Asking to the crowd: large-scale validation of Zooniverse labels on the complexity of child vocalizations. Flash Talk presented at the Society for Research in Child Development Biennial Meeting [virtual].
6. **Kelleher, B. L.** (December 2021). Bringing together caregivers, clinical scientists, and engineers to improve wearable biosensors for Angelman Syndrome trials. Paper presentation at the 2021 Angelman Biomarker and Outcome Measure Alliance, Austin, TX.
7. **Kelleher, B. L.**, Neo, W. S., Witthuhn, N., Felicicchia, R., Protho, T., Dartis, C., Foti, D., & Lane, S. P. (2021, April). Increased caregiving burden due to COVID-19 uniquely predicts mental health and stress in a prospective cohort of mothers of children with rare syndromes. In **B. L. Kelleher & A. Wheeler** (Co-Chairs), *What is the need, and what do we do? Innovations in assessing and treating families of individuals with neurodevelopmental disorders during COVID-19 and beyond*. Symposium to be presented at the 54rd Annual Gatlinburg Conference, Lawrence, KS.
8. Panjwani, A., Bailey, R., & **Kelleher, B. L.** (2021, April). COVID-19 and Food-related Outcomes in Children with Autism Spectrum Disorder: Disparities by Income and Food Security. In **B. L. Kelleher & A. Wheeler** (Co-Chairs), *What is the need, and what do we do? Innovations in assessing and treating families of individuals with neurodevelopmental disorders during COVID-19 and beyond*. Symposium to be presented at the 54rd Annual Gatlinburg Conference, Lawrence, KS.
9. *Bucher, M., *Shannon, E., Felicicchia, R., Foti, D., Rispoli, M., ^**Kelleher, B. L.**, & ^LeMaire, K. (2021, April). Building a virtual treatment network to meet the needs of Angelman families during the COVID-19 pandemic. In **B. L. Kelleher & A. Wheeler** (Co-Chairs), *What is the need, and what do we do? Innovations in assessing and treating families of individuals with neurodevelopmental disorders during COVID-19 and beyond*. Symposium to be presented at the 54rd Annual Gatlinburg Conference, Lawrence, KS. *Shared first authorship; ^Shared senior authorship
10. Semenzin, C., Hamrick, L.R., Seidl, A., **Kelleher, B.L.**, & Cristia, A. (2021, April). Asking to the crowd: large-scale validation of Zooniverse labels on the complexity of child vocalizations. Flash Talk to be presented at the Society for Research in Child Development Biennial Meeting [virtual]
11. **Kelleher, B.** (December 2020). *An update on automated and informant-report communication measures for remote data collection*. Symposium presentation at the 2020 Foundation for Angelman Syndrome Therapeutics Translational Research Symposium, virtual.
12. Harold, R., Galvez-Ortega, K., **Kelleher, B.**, Foti, D. (December 2020). *Development and Implementation of a Novel Remote EEG Protocol for Studying Angelman Syndrome*. Symposium

presentation at the 2020 Foundation for Angelman Syndrome Therapeutics Translational Research Symposium, virtual.

13. Hamrick, L.R. Seidl, A., & **Kelleher, B.L.** (2020, October). *Task-Dependent Impact of Adult Words on Vocalization Patterns in Angelman and Down Syndromes*. Presented at the Many Paths to Language Conference, Nijmegen, The Netherlands [virtual].
14. **Kelleher, B. L.**, Halligan, T., Witthuhn, N., Neo, W. S., Hamrick, L., Abbeduto, L., Lynam, D. (accepted 2020, April; cancelled due to COVID-19). PANDABox Feasibility and Data Quality in a National Sample of Children with Neurogenetic Syndromes. In **B. L. Kelleher** & A. Wheeler (Co-Chairs), *Bringing the Laboratory to Homes and Communities: Leveraging PANDABox to Enhance Access to Early Developmental Surveillance Research*. Symposium to be presented at the 53rd Annual Gatlinburg Conference, San Diego, CA
15. Toth, D. A., Wheeler, A. C., Ventura, C., **Kelleher, B. L.**, Bonnano, G., Nobrega, L. L., Firmino, R. C. B., da Silva, C. M., Ventura, L., Bailey, D. (accepted 2020, April; cancelled due to COVID-19). Using PANDABox to understand developmental strengths and weaknesses in children with Congenital Zika Syndrome. In **B. L. Kelleher** & A. Wheeler (Co-Chairs), *Bringing the Laboratory to Homes and Communities: Leveraging PANDABox to Enhance Access to Early Developmental Surveillance Research*. Symposium to be presented at the 53rd Annual Gatlinburg Conference, San Diego, CA.
16. Hamrick, L.R., Seidl, A., & **Kelleher, B.L.** (2019, December). *Capturing Variability in Early Language Skills Among Children with Angelman Syndrome: A Novel Semi-Automated Approach*. Presented at the Angelman Biomarkers and Outcome Measures Alliance Scientific Meeting, Chicago, IL.
17. **Kelleher, B. L.** (December, 2019). *Optimizing clinical outcome measures for use in Angelman syndrome*. Symposium presentation at the Angelman Biomarker and Outcome Measure Alliance, Chicago, IL.
18. **Tonnsen, B. L.**, Hamrick, L., Seidl, A., Halligan, T., Witthuhn, N. (July, 2019). *Novel remote outcome measures for young children with Angelman syndrome*. Symposium presentation at the Angelman Syndrome Foundation Biannual Conference, Louisville, KY.
19. **Abu-Zhaya, R.**, Tonnsen, B., Francis, A., & Seidl, A. (June, 2019). *Heart-rate as a physiological marker of infants' attention in a statistical learning task*. Paper presented at the International Conference on Interdisciplinary Advances in Statistical Learning, San Sebastian, Spain.
20. **Tonnsen, B. L.**, Halligan, T., & Neo, W. S. (2019, April). Parent-administered remote developmental assessment (PANDABox) for Down syndrome and other neurogenetic syndromes. In S. Jeste (Chair), *Enhancing scalability of clinical trials in rare disorders: Strategies in remote assessment and intervention*. Symposium presentation at the 52nd Annual Gatlinburg Conference, San Antonio, TX.
21. Neo, W. S., & **Tonnsen, B. L.** (2019, April). Characterizing and improving the measurement of early challenging behaviors in Angelman syndrome. In A. Sadwani & K. C. Okoniewski (Co-Chairs), *Advances in characterizing developmental trajectories in Angelman syndrome across the lifespan*. Symposium presentation at the 52nd Annual Gatlinburg Conference, San Antonio, TX.
22. Hamrick, L. R., & **Tonnsen, B. L.** (2019, April). Measurement and characterization of early social communication in children with Angelman syndrome. In A. Sadwani & K. C. Okoniewski (Co-Chairs), *Advances in characterizing developmental trajectories in Angelman syndrome across the lifespan*. Symposium presentation at the 52nd Annual Gatlinburg Conference, San Antonio, TX.
23. Abu-Zhaya, R., **Tonnsen, B.**, Seidl, A., & Francis, A. (2019, February). Infants' physiological responses to cross-modal transitional probabilities in touch and speech input. Paper presented at the 6th Conference on Cognition Research of the Israeli Society for Cognitive Psychology, Acre, Israel.
24. **Tonnsen, B.L.**, Witthuhn, N., Rague, L.R., & Neo, W.S. (2018, August). Novel Telehealth-Based Outcome Measures for Infants with Neurogenetic Syndromes. In A. C. Wheeler (Chair), *Clinical Assessment and Outcome Measure Considerations in Rare Neurodevelopmental Disorders*. Symposium presentation at the 126th Annual American Psychological Association Convention, Division 33, San Francisco, CA.
25. **Tonnsen, B.L.**, Rague, L.R., Neo, W.S., Howell, S., & Garwood, T. (2018, August). Telehealth Assessment of Autism Emergence in Infants with Neurogenetic Syndromes. In M. Talbott (Chair), *The Use of Telehealth Technology to Improve Research in Neurodevelopmental & Neurogenetic Disorders*. Symposium presentation at the 126th Annual American Psychological Association Convention, Division 53, San Francisco, CA.
26. **Tonnsen, B. L.**, Richards, J. E., & Roberts, J. E. (2018, April). Outcomes associated with behavioral ad heart-defined sustained attention in infants at risk for autism. In. A. Hogan & **B. L. Tonnsen** (Co-

- Chairs), *Risk and Resilience in Infant Siblings of Children with Autism Spectrum Disorder*. Symposium presentation at the 51st Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
27. Rague, L., Seidl, A., & **Tonnson, B. L.** (2018, April). Acoustic properties of early vocalizations in infants with fragile X syndrome. In S. L. O'Connor (Chair), *Investigating the behavioral phenotype of fragile X syndrome: Lifespan perspectives*. [Discussant: **B.L. Tonnson**]. Symposium presentation at the 51st Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
 28. Roberts, J.E, Hogan, A., Will, E., Klusek, J., & **Tonnson, B.L.** (2018, April). Heart Rate Variability in Fragile X Syndrome and Its Relationship to Anxiety. In H.C. Hazlett, S. Jeste, & J.E. Roberts (Co-Chairs), *Benefits and Challenges of Biomarker Research: Lessons Learned from Studies of Peripheral and Neural Indicators in IDD*. Symposium presentation at the 51st Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
 29. Wheeler, A. C., **Tonnson, B. L.**, & Roberts, J.E. (2017, September). Negative affect in infants with the FMR1 premutation. Paper presented at the 3rd International Conference on the FMR1 Premutation, Jerusalem, Israel.
 30. **Tonnson, B.L.**, Hogan, A., Ezell, J. A., Caravella, K., & Roberts, J. E. (2017, March). Characterizing anxiety through eye tracking: Attentional bias toward threat in fragile X syndrome. In J. E. Roberts (Chair), *Anxiety in Autism and Fragile X Syndrome*. Symposium presentation at the 50th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX.
 31. Hogan, A. L., O'Connor, S. L., Poupore, N., **Tonnson, B. L.**, & Roberts, J. E.. (2017, March). Early risk markers of anxiety in infant siblings of children with autism spectrum disorder. In J. E. Roberts (Chair), *Anxiety in Autism and Fragile X Syndrome*. Symposium presentation at the 50th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX.
 32. **Tonnson, B.L.**, Ezell, J. A., Hogan-Brown, A., & Roberts, J. E. (2016, August). Attention to threat as a marker of anxiety in adolescents with fragile X syndrome. Paper presented at the 124th Annual American Psychological Association Annual Convention, Denver, CO.
 33. **Tonnson, B. L.**, Richards, J. E., & Roberts, J. E. (2016, March). Cross-syndrome attention in infants at risk for autism. In **B. L. Tonnson** (Chair), *Attention in autism and other neurodevelopmental disorders from infancy to adulthood*. Symposium presentation at the 49th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
 34. **Tonnson, B. L.**, Richards, J. E., Mazur, E. L., & Roberts, J. E. (2015, April). Heart-defined sustained attention in infant siblings of children with autism. Paper presented at the 48th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, New Orleans, LA.
 35. Roberts, J. E., **Tonnson, B. L.**, Guy, M., Hahn, L., & Richards, J. E. (2015, April). Biobehavioral correlates of autism spectrum disorder in infants with fragile X syndrome. Paper presented at the 48th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, New Orleans, LA.
 36. **Tonnson, B. L.**, Scherr, J., Reisinger, D., & Roberts, J. E. (2014, July). *Longitudinal trends and clinical implications of social approach among infants at high autism risk*. Paper presented at the International Fragile X Conference, Orange County, CA.
 37. **Tonnson, B. L.**, & Roberts, J. E. (2014, July). *Biobehavioral correlates of depression and anxiety in women with the FMR1 premutation*. Paper presented at the International Fragile X Conference, Orange County, CA.
 38. **Tonnson, B. L.** & Roberts, J. E. (2014, March). Anxiety vulnerability in young males with fragile X: Maternal predictors of risk and resilience. In J. E. Roberts (Chair), *The co-occurrence of anxiety in fragile X and idiopathic autism: A behavioral and biomarker approach to assessment and treatment across the lifespan*. Symposium presented at the 47th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Chicago, IL.
 39. **Tonnson, B. L.**, Richards, J. E. & Roberts, J. E. (2013, March). Heart activity and visual attention in infants at risk for autism. In J. Roberts, S. Rivera, and H. C. Hazlett (Co-Chairs), *Biobehavioral examination of development in infants and toddlers across the fragile X spectrum of involvement*. Symposium presented at the 46th Annual Gatlinburg Conference on Research in Developmental Disabilities, San Antonio, TX.

40. Roberts, J. E., **Tonnson, B. L.**, Robinson, A. N., & Shinkareva, S. (2012, September). *Heart activity and autistic behaviors in infants with fragile X syndrome*. Paper presented at the 16th World Congress of Psychophysiology, Pisa, Italy.
41. **Tonnson, B. L.**, Richards, J. E., Robinson, A. R., Deal, S. & Roberts, J. E. (2012, July). Visual attention in infants at high risk for autism: Comparing fragile X to autism siblings. In S. M. Rivera and J. E. Roberts (Co-Chairs), *Visual and early development of infants and toddlers with fragile X syndrome*. Symposium presented at the 13th International Fragile X Conference, Miami, FL.
42. Roberts, J. E., McCary, L.M., **Tonnson, B. L.** (2012, July). *Longitudinal analyses of mood and anxiety disorders in mothers with the FMR1 premutation*. Paper presented at the 13th International Fragile X Conference, Miami, FL.
43. **Tonnson, B. L.**, McQuillan, S., Hatton, D., & Roberts, J. E. (2012, March). Behavioral and physiological correlates of negative affect in young children with fragile X syndrome. In J. Roberts & C. B. Mervis (Co-Chairs), *Biobehavioral investigations of temperament in fragile X, Williams, and 7q11.23 duplication syndromes*. Symposium presented at the 45th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Annapolis, MD.
44. **Tonnson, B. L.**, Malone, P., & Roberts, J. E. (2011, March). Outcomes associated with fear in infants and preschoolers with FXS. In J. Roberts & H. C. Hazlett (Co-Chairs), *Biomarkers and behavioral indicators of anxiety and fear in young males with fragile X syndrome*. Symposium conducted at the 44th Annual Gatlinburg Conference on Research in Developmental Disabilities, San Antonio, TX.
45. **Tonnson, B. L.**, McDonald, L., & Mounts, M. (2011, February). Fear, anxiety, and autism in children with fragile X syndrome. In J. Roberts (Chair), *Predicting outcomes in children with neurodevelopmental disorders*. Symposium conducted at the Annual Meeting of the National Association of School Psychologists, San Francisco, CA.
46. Mounts, M. & **Tonnson, B. L.** (2011, February). School psychologists' roles in assessing children with neurodevelopmental disorders. In J. Roberts (Chair), *Predicting outcomes in children with neurodevelopmental disorders*. Symposium conducted at the Annual Meeting of the National Association of School Psychologists, San Francisco, CA.
47. Roberts, J. E., McDonald, L.M., **Tonnson, B. L.**, & Hatton, D.D. (2010, July). *Social responsivity in infants with fragile X syndrome over time*. Paper presented at the 12th Annual Meeting of the National Fragile X Foundation, Detroit.
48. Roberts, J. E., **Tonnson, B. L.**, McDonald, L.M., & Malo, A. (2010, July). Early social behavior in infants and preschoolers with fragile X syndrome. In K. Cornish (Chair), *Tracing trajectories of strengths and challenges in young children with fragile X syndrome: Why development itself is so important*. Symposium conducted at the 12th International Fragile X Conference, Detroit, MI.
49. Englund, J. A., McDonald, L. M., & **Kelleher, B. L.** (2010, March). Early manifestations of autism in fragile X syndrome: Aberrant attention. In J. Roberts (Chair), *Autism and fragile X syndrome: Child and family factors*. Symposium presented at the Annual Meeting of the National Association of School Psychologists, Chicago, IL.
50. **Kelleher, B. L.**, & Keith, P. (2010, March). Diagnostic and treatment considerations for children with fragile X with and without autism. In J. Roberts (Chair), *Autism and fragile X syndrome: Child and family factors*. Symposium conducted at the meeting of the Annual Meeting of the National Association of School Psychologists, Chicago, IL.
51. Roberts, J. E., McDonald, L.M., **Kelleher, B. L.**, & Shinkareva, S. (2010, March). Heart activity and autistic behavior in infants with fragile X syndrome. In J.E. Roberts (Chair), *Detection of autism and its effects of infants and preschoolers with fragile X syndrome*. Symposium presented at the 43rd Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Annapolis, MD.
52. **Kelleher, B. L.** & Hahn, E. R. (2009, April). *Middle school students' attitudes and behaviors toward a target peer with autism as a function of perceived inclusion*. Oral presentation at the National Conference on Undergraduate Research, LaCrosse, WI.
53. **Kelleher, B. L.** (2009, May). *Autism and inclusion: Presentation of thesis research*. Oral presentation at Furman Engaged! Undergraduate Research Conference, Furman University, Greenville, SC.

SELECT POSTER PRESENTATIONS

1. **Kelleher, B.L.**, Felicicchia, R., Protho, T. Lane, S., Richards, L., & George, M. (2022, July). Momentary snapshots of caregiver life during COVID-19: Health behaviors, caregiving, and mental well-being. [Poster Presentation]. National Fragile X Conference, San Diego, CA.
2. Boorom, O., Hamrick, L., Graves, R., **Kelleher, B.**, & Brady, N. (2022, November). *Use of the Communication Complexity Scale (CCS) in Parent-Child Free Play Observations*. Presented at the American Speech-Language-Hearing Association 2022 Annual Meeting, New Orleans, Louisiana.
3. Hill, E., Berlstein, L., Hamrick, L., **Kelleher, B.L.**, & Seidl, A. (2022, June). *Acoustic Differences in the Babble of Low Risk Infants and Infants with Neurogenetic Disorders*. Accepted to be presented at the Symposium on Research in Child Language Disorders 2022 Annual Meeting, Madison, WI, United States.
4. Neo, W. S., Roberts, F., Yamamoto, M., **Kelleher, B.**, & Foti, D. (2022, April 1). *Conversational processing in the broad autism phenotype (BAP): Reduced neural sensitivity to subtle distinctions in duration of inter-speaker pauses* [Poster presentation]. 2022 Purdue Autism Research Conference, West Lafayette, IN, United States. **Poster awarded Best Applied Science Poster Award*
5. *Mathis, K., *Anthony, F., *Eisenhut, A., **Kelleher, B.**, & Hamrick, L. (2022, April). *The Relationship Between Adult input and Autism Spectrum Disorder Diagnosis in Children with Neurogenetic Syndromes*. Accepted to be presented at the 2022 Purdue Undergraduate Research Conference, West Lafayette, IN.
6. Neo, W. S., Roberts, F., Yamamoto, M., **Kelleher, B.**, & Foti, D. (2021, October 13–17). “*Could you explain this study to me? ... Sure.*”: *Conversational pauses are less salient in broad autism phenotype* [Poster presentation]. 61st Society for Psychophysiological Research Annual Meeting, Prague, Czech Republic.
7. Hill, K., Neo, W. S., Deming, E., **Kelleher, B.**, & Foti, D. (2021, October 13–17). *Mother-infant convergence of event-related potentials related to motivated attention* [Poster presentation]. 61st Society for Psychophysiological Research Annual Meeting, Prague, Czech Republic.
8. Galvez-Ortega, K., Hill, K., Neo, W. S., **Kelleher, B.**, & Foti, D. (2021, October 13–17). *Test-retest reliability of the late-positive potential and the reward positivity in new mothers* [Poster presentation]. 61st Society for Psychophysiological Research Annual Meeting, Prague, Czech Republic.
9. Harold, R., Novak, K., Neo, W. S., Stump, T., Lee, T., Garwood, T., Berry-Kravis, E., **Kelleher, B.**, & Foti, D. (2021, October 13–17). *Exploring abnormal error processing among carriers of the FMR1 premutation* [Poster presentation]. 61st Society for Psychophysiological Research Annual Meeting, Prague, Czech Republic.
10. Galvez-Ortega, K., Hill, K., Neo, W. S., **Kelleher, B.**, & Foti, D. (2021, September 23–26). *Exploring abnormal neural measures of emotional reactivity and reward sensitivity among a sample of new mothers* [Poster presentation]. 2021 Society for Research in Psychopathology Annual Meeting.
11. Neo, W. S. & ***Kelleher, B. L.** (2021, April 5–8). Infants’ behavioral responses to name are accompanied by greater heart rate deceleration: A biobehavioral approach [Poster presentation]. 54th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Kansas City, MO, United States.
12. **Hamrick, L.R.**, Seidl, A., & Kelleher, B.L. (2021, April). *Validating an Adaptive Age Equivalent and Adaptive Developmental Quotient using the National Database for Autism Research (NDAR)*. Presented at the International Society for Autism Research 2020 Annual Meeting, Boston, MA, United States.
13. Hamrick, L.R., Seidl, A., & ***Kelleher, B. L.** (2021, April 5-8). Understanding Communication Outcomes of Children with Angelman Syndrome using the Observer-Reported Measure of Communication Ability (ORCA). [Poster presentation]. 54th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Kansas City, MO, United States.
14. Felicicchia, Bucher, M., Foti, D., LeMaire, K., & ***Kelleher, B. L.** (2021, April 5-8) Impact of COVID-19 on telemental health treatment outcomes among caregivers of children with Angelman. [Poster presentation]. 54th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Kansas City, MO, United States.
15. Protho, T., & ***Kelleher, B. L.** (2021, April 5-8). The Impact of Stress and Sleep in Caregivers of Children with Neurogenetic Syndromes during COVID-19. [Poster presentation]. 54th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Kansas City, MO, United States.

16. **Neo, W. S.**, Foti, D., & Kelleher, B. (2020, October 4–11). *Associations between concurrent cardiac and neural measures of infant attention over short and long timescales* [Poster presentation]. 60th Society for Psychophysiological Research Annual Meeting, Vancouver, Canada.
17. **Hamrick, L.R.**, Seidl, A., & Kelleher, B.L. (accepted 2020, April; cancelled due to COVID-19). *Associations of Automated and Human Speech Annotation with Adaptive Language in Children with Neurogenetic Syndromes*. To be presented at the Gatlinburg Conference, San Diego, CA.
18. Halligan, T. & **Kelleher, B.L.** (accepted 2020, April; cancelled due to COVID-19). *Distinguishing social motivation from autism features in children with neurogenetic syndromes*. Poster session to be presented at the Gatlinburg Conference, San Diego, CA.
19. Neo, W. S., & **Kelleher, B.** (accepted 2020, April; cancelled due to COVID-19). *Did someone say my name? Examining the congruency between behavioral and cardiac responses to name in 12-month-old infants*. Poster session to be presented at the 53rd Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
20. Hamrick, L.R., Seidl, A. & **Kelleher, B.L.** (accepted 2020, March; cancelled due to COVID-19). *Associations of Early Vocalization Features with Autism Symptomatology in Children with Angelman Syndrome*. To be presented at the Meeting on Language in Autism, Durham, NC.
21. Hill, K. E., Hernandez, A., Neo, W. S., Hamrick, L., **Kelleher, B. L.**, Foti, D. (2019, November). *Examining the mother-infant association of a neural measure of trait motivation: Implications for transmission of depression risk*. Poster presented at the Women's Global Health Institute Women's Health Symposium, West Lafayette, IN.
22. Hill, K. E., Hernandez, A., Neo, W. S., **Kelleher, B.**, & Foti, D. (2019, September). *Examining the within-family concordance of frontal alpha asymmetry as a neural measure of trait motivation*. Poster presented at the 59th Annual Meeting of the Society for Psychophysiological Research, Washington, D. C.
23. Halligan, T., Neo, W.S., Hamrick, L., **Tonnson, B.** (2019, May). *Utilizing the SRS-P to Examine ASD Symptoms in a Sample of High-Risk Toddlers with Neurogenetic Syndromes*. Poster presented at the International Society for Autism Research Annual Meeting, Montreal, Canada.
24. Hamrick, L. R., Haney, A. M., Lane, S. P. & **Tonnson, B.** (2019, April). *Using generalizability theory to validate an existing measure of social communication in neurogenetic syndrome populations*. Poster presented at the 52nd Annual Gatlinburg Conference for Intellectual and Developmental Disabilities, San Antonio, TX.
25. Neo, W.S. & **Tonnson, B.** (2019, April). *Heart rate-defined sustained attention as a psychophysiological measure of attention for young children with Down syndrome*. Poster presented at the 52nd Annual Gatlinburg Conference for Intellectual and Developmental Disabilities, San Antonio, TX.
26. Halligan, T., Witthuhn, N., & **Tonnson, B.** (2019, April). *Preliminary feasibility of PANDA, a telehealth assessment battery of prodromal autism risk*. Poster presented at the 52nd Annual Gatlinburg Conference for Intellectual and Developmental Disabilities, San Antonio, TX.
27. **Kollmann, K.**, **Shin, J.**, **Shelton, L. A.**, **Aguilar, P.**, Witthuhn, N., & Tonnson, B. (2019, March). *Medication patterns among infants and toddlers with neurogenetic syndromes*. Poster presented at the Butler University Conference for Undergraduate Research, Indianapolis, IN.
28. Monteiro, E.M., Neo, W. S., **Tonnson, B. L.** (2018, November). *Predicting Externalizing Behavior Problems in Children with Neurogenetic Syndromes*. Poster presented at the Annual Biomedical Research Conference for Minority Students, Indianapolis, Indiana.
29. Neo, W. S., & **Tonnson, B.** (2018, October). *Assessing developmental precursors of psychiatric symptoms in neurogenetic syndromes using the Child Behavior Checklist: A validation and characterization study*. Poster presented at the 2018 Purdue Autism Research Conference, West Lafayette, IN.
30. Hill, K.E., Rague, L., **Tonnson, B.L.**, Foti, D. (2018, September). *Alpha asymmetry in mother-infant dyads: Physiological coherence and links with the naturalistic family environment*. Submitted for presentation at the 58th Annual Meeting of the Society for Psychophysiological Research, Quebec City, Canada.
31. Hill, K. E., Rague, L., **Tonnson, B. L.**, Foti, D. (2018, September). *Coherence in resting-state brain activity among mother-infant dyads: Links with depression risk*. Poster presentation for the Society for Research in Psychopathology, Indianapolis, IN.

32. Rague, L., **Tonnson, B.** (2018, September). Acoustic Features of Infant Vocalizations Related to Symptoms of Autism Spectrum Disorder in Fragile X Syndrome. Poster presented at the Society for Research in Psychopathology, Indianapolis, IN.
33. Neo, W.S., & **Tonnson, B.** (2018, September). Heart rate-defined sustained attention: Associations with infant behaviors in play-based interactions. Poster presented at the 58th Annual Meeting of the Society for Psychophysiological Research, Quebec City, Canada.
34. *Howell, S., Garwood, T., Neo, W. S., Rague, L., Witthuhn, N., & Tonnson, B. L.* (2018, July). *Family perceptions of assessment procedures for children with neurogenetic syndromes.* Poster presented at the 16th International Fragile X Conference, Cincinnati, OH.
35. *Al Ghabra, D., Shin, J., Reyes, E., Kellerman, A., Neo, W. S., & Tonnson, B. L.* (2018, April). *Using the M-CHAT-R/F as a screening measure to detect autism risk in children with neurodevelopmental disorders.* Poster presented at the Butler Conference for Undergraduate Research, Indianapolis, IN.
36. Neo, W. S., & **Tonnson, B.** (2018, April). *Characterizing problem behaviors in neurogenetic syndromes during toddlerhood.* Poster presented at the 51st annual Gatlinburg Conference, San Diego, CA.
37. Abel, E. A., & **Tonnson, B. L.** (2017, August). *The intersection of sleep and emerging problem behaviors in infants and toddlers with neurogenetic syndromes.* Poster presented at the annual convention of the American Psychological Association, Washington, D.C.
38. Abu-Zhaya, R., **Tonnson, B. L.**, Francis, A., Seidl, A. (2017, June). Infants' physiological responses to cross-modal touch+speech input. Poster to appear at the Workshop on Infant Language Development, Bilbao, Spain.
39. Rague, L., Caravella, K. E., & **Tonnson, B. L.**, & Roberts, J.E. (2017, May). Gesture development and autism severity in high-risk infants. Poster presented at the International Meeting for Autism Research, San Francisco, CA.
40. Rague, L. & **Tonnson, B. L.** (2017, March). Measuring early social communication skills in neurogenetic syndromes using the CSBS-ITC. Poster presented at the 50th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX.
41. Abel, E. & **Tonnson, B. L.** (2017, March). Characterizing sleep problems in infants and toddlers with neurogenetic syndromes: A cross-group comparison. Poster presented at the 50th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX.
42. Guy, M. W., Roberts, J. E., **Tonnson, B. L.**, & Richards, J. E. (2016, May). Neural correlates of face processing associated with risk of autism spectrum disorders in infancy. Poster presented at the International Society on Infant Studies, New Orleans, LA.
43. *Bengert, N., Holen, M., Brewer, M., Zaborenko, C., & Tonnson, B. L.* (2016, April). Age-related patterns of stranger anxiety in fragile X. Poster presented at Butler Undergraduate Research Conference, Indianapolis, IN.
44. *Zaborenko, C. J. & Tonnson, B.* (2015, October). Examining familial risk and resilience: Autism spectrum disorder, fragile X syndrome, & Down syndrome. Poster presented at Greater Lafayette Taste of Care, Lafayette, IN.
45. **Tonnson, B. L.**, Bradley, C. C., Boan, A. D., Cohen, A., Charles, J., & Carpenter, L. A. (2015, April). Epidemiological rates of autism spectrum disorder among children with intellectual and developmental disabilities. Poster presented at the 48th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, New Orleans, LA.
46. McGrath, S., **Tonnson, B. L.**, & Roberts, J. E. (2015, April). *Repetitive behaviors in cross-syndrome autism: Developmental change from a school psychologist perspective.* Poster presented at the National Association of School Psychologists Annual Convention, Orlando, FL.
47. **Tonnson, B.L.**, McCary, L.M., Mazur, E. L. & Roberts, J.E. (2014, July). *Infant attention and genetic risk for autism.* Poster presented at the 2014 International Conference on Infant Studies, Berlin, Germany.
48. Zeiber, N., Richards, J., **Tonnson, B.**, Roberts, J. (2014, July). *Neural correlates of face processing in infants at risk for autism and infants with fragile X syndrome.* Poster presented at the 2014 International Conference on Infant Studies, Berlin, Germany.
49. Caravella, K., **Tonnson, B. L.**, McCary, L. M., & Roberts, J. E. (2014, July). *Examining autism symptomatology in infants with fragile X syndrome and autism infant siblings.* Poster presented at the 2014 International Fragile X Conference, Orange County, CA.
50. Grefer, M. L., **Tonnson, B. L.** & Roberts, J. E. (2014, March). *Heart activity in association with ADHD and autistic behavior in children with fragile X syndrome.* Poster presented at the 47th Annual

Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Chicago, IL.

51. Mazur, E. L., **Tonnson, B. L.**, & Roberts, J. E. (2013, November). *Attention engagement and disengagement in infants at risk for autism*. Poster presented at the 2013 Louisiana State University Undergraduate Research Conference, Baton Rouge, Louisiana.
52. **Tonnson, B. L.**, McCary, L. M., Deal, S., & Roberts, J. E. (2013, August). *Autism indicators in infant siblings and infants with fragile X*. Poster presented at the 2013 American Psychological Association Annual Convention, Honolulu, Hawaii.
53. **Tonnson, B. L.**, Zieber, N., Roberts, J. E., & Richards, J. E. (2013, April). *Visual preferences in infants at high-risk for autism: Behavioral and psychophysiological cross-group comparisons*. Poster presented at the 2013 Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
54. **Tonnson, B. L.**, Richards, J. E., & Roberts, J. E. (2012, May). *Experimental and parent-reported self-regulation in infants at high- and low-risk for autism*. Poster presented at the 3rd Annual UK Paediatric Neuropsychology Conference: Baby Brains around the World, London, UK.
55. Mounts, M., **Tonnson, B. L.**, Rizzo, K., Ingram, A., Shelton, H. C., Hatton, D., & Roberts, J. E. (2012, May). *Does social shyness predict autism in high risk preschoolers with FXS? A longitudinal examination of behavioral and biomarkers of autism*. Poster presented at the International Conference for Autism Research, Toronto, Canada.
56. Wehrenberg, B., Joseph, C., Messana, L., Pitts, H., & **Tonnson, B. L.** (2012, April). *Social fear in infants with fragile X syndrome*. Poster presented at University of South Carolina Discovery Day, Columbia, SC.
57. Grefer, M., Mounts, M., **Tonnson, B. L.**, Robinson, A., & Roberts, J. E. (2011, October). *Investigating early developmental patterns in young children with fragile X syndrome and autism: Applying results to school psychology*. Poster presented at the fall meeting of the South Carolina Association for School Psychologists, Columbia SC.
58. Tackett, B., Clark, C., & **Tonnson, B. L.** (2011, April). *Physiological patterns during social stress correlate with anxiety in preschool males with fragile X syndrome*. Poster presented at the South Carolina Psychological Association Spring Conference, Myrtle Beach, SC.
59. Rizzo, K., Lader, S., & **Tonnson, B. L.** (2011, April). *The effects of maternal depression on the relationship between infant fear and anxiety outcomes in children with fragile X syndrome*. Poster presented at the South Carolina Psychological Association Spring Conference, Myrtle Beach, SC.
60. **Tonnson, B. L.**, Englund, J., Tackett, B., Nihart, E., & Roberts, J. E. (2010, October). *Cross-battery assessment: An integrated approach for South Carolina school psychologists*. Poster presented at the Fall meeting of the South Carolina Association for School Psychologists, Columbia SC.
61. Mounts, M., Robinson, A., **Tonnson, B. L.**, Powell, E., McDonald, L., Malo, A. & Roberts, J. E. (2010, October). *Predicting autism in high risk populations: Applying longitudinal results to school psychology*. Poster presented at the Fall meeting of the South Carolina Association for School Psychologists, Columbia SC.
62. Roberts, J.E., McDonald, L., **Kelleher, B. L.**, & Shinkareva, S. (2010, May). *Detection of autism in infants with fragile X syndrome*. Poster presented at the 9th International Meeting for Autism Research, Philadelphia, PA.
63. **Kelleher, B. L.** & Hahn, E. R. (2010, March). *Adolescents' attitudes toward a fictional peer with autism: Examining social factors*. Poster presented at the 43rd Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Annapolis, MD.
64. **Kelleher, B. L.** & Hahn, E. R. (2009, May). *The effect of perceived inclusion on middle school students' attitudes and actions toward a peer with autism*. Poster presented at the 8th International Meeting for Autism Research, Chicago, IL.

CHAired CONFERENCES AND WORKING GROUPS

2019

Working Group on Outcome Measures for Neurodevelopmental Disorders (April 2019)

Role: Co-Chair with Anne Wheeler, RTI International

Funding: Purdue Department of Psychological Sciences, College of Health and Human Sciences

2018 **Purdue Autism Research Conference (October 2018)**
Role: Co-Chair with Mandy Rispoli and Brandon Keehn, Purdue University
Funding: Purdue Office of the Provost

PROFESSIONAL EXPERIENCE

ADMINISTRATIVE LEADERSHIP AND SERVICE

Active Director, Purdue Autism Research Center, 2021-2023 (two-year term)
Member, Clinical Diversity, Equity and Inclusion Committee, 2020-
Member, Research Advisory Committee, College of Health and Human Sciences, 2020-
Member, Self-Study Committee, PU Department of Psychological Sciences 2018-

Past Member, College of HHS Strategic Roadmap Committee, 2020-2021
Associate Director, Purdue Autism Research Center, 2019-2021
Search Committee, Head of Department of Psychological Sciences, 2019-20
Co-Chair, Purdue Autism Research Conference, 2018
Faculty Advisor, Purdue Best Buddies, 2017-2020
Member, Graduate Committee, PU Department of Psychological Sciences, 2018
Member, Long Term Planning Committee, PU Psychological Sciences, 2017-2018
Search Committee, Special Education Opportunity Hire, 2017
Search Committee, Associate/Full Professor of Special Education, 2016-2017
Member, Human Subjects Advisory Committee, PU Psychological Sciences, 2016-2017
President, Psychology Graduate Student Association, University of South Carolina, 2011-2012

TEACHING

Purdue University

PSY 668 Introduction to Cognitive Assessment (Graduate)
PSY 392 Neurodevelopmental Disorders (Undergraduate)
PSY 390 Independent Study in Neurodevelopmental Disorders (Undergraduate)
PSY 668, 690, 698 Independent Study in Neurodevelopmental Disorders (Graduate)

University of South Carolina

PSY 420 Developmental Psychology

Curricula and Resources available at <http://kelleherlab.weebly.com>

Tonnsen, B. L. (2018). *Preparing your undergraduate research project*. Manual available online.
Tonnsen, B. L. (2018). *F31 Planning Manual for Psychology Graduate Students*. Manual available online.

Educational Workshops for Purdue Graduate and Undergraduate Students

2017-2020 Women in Clinical Science Mentorship Brunch (Graduate; annual)
2018 "NIH F31 Fellowships: How to Prepare and Apply" (Graduate)
2018 "Work-Life Balance in Academia" (Graduate)
2018 "What Next? Grad School Options for Psychology and Related Disciplines" (Undergraduate)
2017 "NIH F31 Fellowships: Mock Review Panel" (Graduate)

GRANT REVIEWS

2022 Reviewer, Autism Centers of Excellence Program, NIH

2017, 2021 Reviewer, Child Psychopathology and Developmental Disabilities Study Section, NIH
2020 Reviewer, Autism Research Program, US Department of Defense
2020 Reviewer, Intellectual and Developmental Disabilities Research Center SEP, NIH
2017 Reviewer, Interaction of HIV with Neurodevelopmental Outcomes in Infants, Children
in Resource-Limited Settings, NIH/NICHD
2017 Reviewer, Wellcome Trust (UK)

NATIONAL AND INTERNATIONAL ADVISORY PANELS AND SERVICE

2022 Member-at-Large (elected), American Psychological Association Division 33
2022 Member, Advisory Committee for PIXI for Angelman Syndrome

EDITORIAL WORK

2019-20 Guest Co-Editor, *American Journal on Intellectual and Developmental Disabilities*
Special Issue: Outcome Measures for Use in Rare Syndromes

2019- Editorial Board, *American Journal on Intellectual and Developmental Disabilities*

2017-19 Associate Editor, *American Journal on Intellectual and Developmental Disabilities*

Ad Hoc: American Journal on Intellectual and Developmental Disabilities; Biological Psychiatry;
Cognitive Neuroscience and Neuroimaging; Cognitive Systems Research; Journal of Child
Psychology and Psychiatry; Journal of Developmental and Physical Disabilities; Journal of
Intellectual Disability Research; Journal of Neurodevelopmental Disorders; Journal of the
Neurological Sciences; Research in Developmental Disabilities, Psychiatry Research