

ANNETTE MERCER ESTES

CURRICULUM VITAE

May, 2022

University of Washington
Box 357920
Seattle, WA 98195
Phone: (206) 543-1051
E-mail address: estesa@u.washington.edu

PERSONAL DATA

Place of Birth: Bellevue, Washington

Citizenship: United States

Date of Birth: December 25, 1965

EDUCATION

- 1998, Ph.D. University of Washington, Seattle, WA, (Child Clinical Psychology)
Title: Does positive parenting influence the development of conduct problems in children of adolescent mothers?
- 1994, M.S. University of Washington, Seattle, WA, (Child Clinical Psychology)
- 1988, B.A. The Evergreen State College, Olympia, WA

POSTGRADUATE TRAINING

- 1998 APA-approved clinical psychology internship,
Primary Children's Hospital, Salt Lake City, UT

FACULTY POSITIONS HELD

- 2015-present Research Professor, Department of Speech and Hearing Sciences,
University of Washington
- 2015-present Adjunct Research Professor, Department of Psychology,
University of Washington
- 2011-2015 Research Associate Professor, Department of Speech and Hearing
Sciences, University of Washington
- 2011-2015 Adjunct Research Associate Professor, Department of Psychology,
University of Washington
- 2009-2011 Research Assistant Professor, Department of Speech and Hearing
Sciences, University of Washington
- 2007-2011 Adjunct Research Assistant Professor, Department of Psychology,
University of Washington
- 2005-2009 Research Assistant Professor, Department of Psychiatry and Behavioral
Sciences, University of Washington

UNIVERSITY ADMINISTRATIVE POSITIONS HELD

- 2013-present Director, University of Washington Autism Center
- 2013-2015 Co-Director, Collaborative Research Area on Autism, Center on Human
Development and Disability
- 2004-2008 Associate Director, University of Washington Autism Center

CURRENT LICENSE

- 2000-present State of Washington, Licensed Psychologist (PY00002421)

PROFESSIONAL ORGANIZATIONS and HONORS

Susan & Richard Fade Endowed Chair

Autism 360 Faculty Lead

Autism Coalition of Tacoma, Advisory Committee Co-Chair

President, Psychiatric Research Society, 2015

American Psychological Association member

Autism Speaks Toddler Treatment Network member

International Society for Autism Research member

Young Investigator Travel Award, Psychiatric Research Society

Academic Autism Spectrum Partnership in Research and Education Delphi Committee

Study Section Reviewer: NIH SBIR Drug discovery for aging, neuropsychiatric and

neurologic disorders; Department of Defense CDMRP Autism Research Program;

Autism Speaks Treatment Grant Review Committee; New Jersey Governor's Council
for Medical Research and Treatment of Autism;

Study Section Chair: Department of Defense CDMRP Peer Review Programs

TEACHING RESPONSIBILITIES

Mentor: Postdoctoral Fellows

2021-2022 Lupita Santillan

2017-2022 Katherine MacDuffie, Ph.D.

2010 Erin Olson, Ph.D.

2008-2010 Tanya St. John, Ph.D.

2009 Cynthia Polance, Psy.D.

2005-2006 Mandy Steiman, Ph.D.

2004 Laura Malcy, Ph.D.

Doctoral Committee Chair

Amy Rodda, Department of Speech and Hearing Sciences, University of Washington

Peer Relationships in School-Age Children with Autism: Concurrent and
Longitudinal Predictors

Shanna Alvarez, Department of Education, University of Washington

Communication spontaneity in infants at high and low risk for autism spectrum
disorders

Doctoral Committee Member

Adriana Luna, Department of Education, University of Washington

Shannon Ludeman, Department of Education, University of Washington

Robin Finlayson, Department of Education, University of Washington

Ashley Penney, Department of Education, University of Washington

The Effects of a Group-Based Approach to Parent-Mediated Early Behavioral
Intervention for Very Young Children with Autism

Kathryn Greenslade, Department of Speech and Hearing Sciences, University of
Washington

Helping behaviors in children with autism spectrum disorders

Erin Haven, Department of Psychology, Seattle Pacific University

Parent mental state language: relations to theory of mind in children with autism
spectrum disorders

Lindsey Sterling, Department of Psychology, University of Washington

Behavioral and physiological characteristics associated with anxiety in
adolescents with autism spectrum disorder

Lauren Elder, Department of Psychology, University of Washington,

The relationship between parent training and parent-child interaction in autism

Doctoral Biology Exam Committee Member

Matthew Bryan, Department of Biostatistics, University of Washington

Masters Thesis Advisor or Committee Member

Sean Gilmore, Department of Speech and Hearing Sciences, University of Washington
The Games They Play: Observations of Children with Autism Spectrum Disorder on the School Playground

Kelleen Dunley, Dept of Speech and Hearing Sciences, University of Washington
The relationship between joint attention and communication in ASD

Lindsay Williams, Dept of Speech and Hearing Sciences, University of Washington
Vocalization behavior during the Autism Observation Scale for Infants in siblings of children with autism spectrum disorders

Research Advisor

Vanessa Zhou, Department of Psychology, University of Washington, Bilingualism and autism spectrum disorders

Johnny Askew, Department of Speech and Hearing Sciences, University of Washington, Academic achievement in adolescents with ASD.

Genesis Han, University of Washington, School of Medicine, Patterns of psychotropic medication use in children with autism spectrum disorders

Undergraduate Honors Advisor

Elizabeth Idomskaya Department of Speech and Hearing Sciences, University of Washington, Peer relationships in school-age children with autism

Kelleen Dunley, Department of Speech and Hearing Sciences, University of Washington, The relationship between joint attention and social communication in 12-month-old infants at high risk for autism spectrum disorders

Danielle Ung, Department of Psychology, University of Washington, An investigation of the effects of behavior problems in children with autism spectrum disorder on mothers' vs. fathers' stress levels

Kai Chi Yam, Department of Psychology, University of Washington, The relation between infant temperament and parenting-related stress

Samantha Johnson, Department of Psychology, University of Washington, Autistic Disorder: Parental distress and the quality of parent-child interactions

Lindsey Fisch, University of Michigan at Kalamazoo

Intervention history of children with autism spectrum disorders.

Invited Course Lectures, University of Washington

2010 Department of Speech and Hearing Sciences: Autism spectrum disorders: Assessment, diagnosis, intervention; Research on neurobiology of autism

2003-present Department of Psychology, selected topics: Autism Spectrum Disorders; Career and Professional Development; Autism Research:

2000-2006 Department of Rehabilitation Medicine, Autism Spectrum Disorders

1992-1996 Department of Psychology, selected topics: Child Depression, Parenting Practices, Introduction to Clinical Intakes with Children, Introduction to Child Clinical Psychology, Intelligence Assessment

Course Instructor, University of Washington

2016 Department of Speech and Hearing Sciences: Autism Seminar

(SPHSC 565)
1995, 1996 Department of Psychology: Child Behavior Disorders (Psych 410)
1993-1994 Departments of English and Psychology: Writing Link to Introductory
Psychology (Engl 197)

Teaching Assistant, University of Washington

1991-1997 Graduate: Advanced Child Assessment, Intelligence Assessment,
Clinical Methods, Clinical Ethics, Undergraduate: Personality Theory,
Child Development, Abnormal Psychology

RESEARCH FUNDING

Current:

5/3/2021 – 3/31/2026 *Sleep, Brain Development, and Behavioral Correlates in a
Longitudinal Cohort of Children at Risk for ASD (Estes, Network PI)*

The goal of this project is to (1) characterize circadian disturbances, sleep duration, and other sleep parameters in the home using actigraphy, validated by sleep diary, and parent report of behavioral and medical sleep problems, (2) examine brain growth trajectories (from infancy) associated with sleep problems in school-age, and (3) examine the longitudinal behavioral and developmental trajectories and concurrent behavior associated with sleep problems in school-age.

09/24/19-07/31/24, *Toward Scalable-Based Prediction of ASD in High-Risk Infants*, R01
MH121462 (**Jeste PI, Estes Co-I**)

The goal of this project is capitalizing on the opportunity to directly integrate EEG/ET with neuroimaging in the same cohort of infants, we propose to explore the association between EEG/ET and MRI features and explore the predictive power of these combined measures.

04/25/18-06/30/24 Seattle Foundation Donor-Funded Initiative- *On-Time Autism
Intervention project (Estes, Schwartz Co-PIs)*

The On-Time Autism Intervention (OTAI) project aims to decrease health care disparities in autism diagnosis and intervention in Washington State for young children in under resourced communities.

04/01/19 -01/31/24, *MRI Based Presymptomatic Prediction of ASD*, R01 MH118362
(Pruett PI, **Estes UW Co-I**)

The goal of this project is to develop a four-site imaging collaboration using fcMRI to study brain development in 6-month-old infants at high-risk for autism as part of the IBIS imaging network.

04/01/19-01/31/24, *MRI Based Presymptomatic Prediction of ASD Behavior Core*, R01
MH118362 (Pruett PI, **Estes UW PI**)

The goal of this project is to develop a four-site imaging collaboration using fcMRI to study brain development in 6-month-old infants at high-risk for autism as part of the IBIS imaging network.

09/20/18 - 08/31/23, *A Longitudinal MRI Study Characterizing Very Early Brain Development in Infants with Down Syndrome*, R01 HD 088125-01A1 (Botteron PI, **Estes UW Co-I**)

The goal of this proposal is to assess the impact of specific early intervention therapies that are most helpful in improving the developmental outcomes of children with DS. This study mirrors and expands on the study designs and techniques that were developed to study infants with autism spectrum disorder (ASD), Fragile X, and typically developing infants, and will allow us to further our understanding of maturation patterns of infant brains that we can apply to DS, ASD, Fragile X, and other disabilities.

08/24/18-06/30/23, *Development and neural mechanisms of repetitive behavior and sensory responsivity in autism*, R01 MH116961 (Wolff PI, **Estes UW PI**)

The goal of this project is to administer consistent participant ascertainment procedures and high-quality data collection, tape the administration, and send the data to Dr. Wolff through the Data Coordinating Center website.

09/07/17-07/31/22, *A Longitudinal Brain and Behavior Study of Autism from Infancy through School Age*, R01 HD055741 (Piven Network PI, Dager Site PI, **Estes, UW Site Co-PI**)

This Autism Center of Excellence (ACE) Infant Brain Imaging Study (IBIS) Network includes four clinical data collection sites (UNC, UW, Penn, Wash U, and a Data Coordinating Center (MNI). This grant extends our prior IBIS Network project to study at-risk infants starting at age 3, 6, 9, 12, 15, 24 and 36+ months of age. This study will provide important, new information about the trajectory of early post-natal brain overgrowth, as measured on MRI and DTI, and its potential relationship to clinical features.

09/07/17-07/31/22, *A Longitudinal Brain and Behavior Study of Autism from Infancy through School Age – Behavior Core*, RO1 HD05574, (Piven Network PI, **Estes, UW Site PI**)

This project is a competing renewal of an Autism Center of Excellence (ACE) Network, the Infant Brain Imaging Study (IBIS). This project will continue to oversee the quality control of behavioral measures across sites. Dr. Estes provides leadership of the Behavioral Core that supports the main parent project by providing clinical and scientific leadership to ensure clinical procedures are consistently utilized across the network.

Past:

9/30/16 - 8/31/21, *Investigating Air Pollution Effects on the Developing Brain and ASD (GeoCoding)*, R01ES026961 (Volk PI, **Estes, Co-I**)

09/16/18 – 09/15/20, *Neuroethics of Predictive MRI Testing: Parental Attitudes Towards Pre-Symptomatic Identification of Autism Spectrum Disorder* MacDuffie, F32 MH118689 BRAIN Initiative/Postdoctoral Fellowship, (MacDuffie, Fellow, Estes Mentor)

08/01/18 – 07/31/20, *Characterizing the brain and behavioral phenotype of school-aged children with Down syndrome*, R01 HD055741, (Piven PI, **Estes UW Co-I**)

02/01/14-01/31/19. *Eye Blink Conditioning in School-Aged Children with ASD*, 1R01 MH100881. (PI: Welsh; Co-PI, **Estes**)

04/01/13-3/30/19, *Intervention Effects of Intensity and Delivery Style for Toddlers with ASD*, R01 HD12196 (Rogers Network PI, **Estes, UW site PI**)

09/04/12-06/30/17, *A Longitudinal MRI Study of Infants at Risk for Autism*, R01 HD055741 (Piven Network PI, **Estes, UW Site Co-PI**)

09/04/12-06/30/17, *A Longitudinal MRI Study of Infants at Risk for Autism – Behavioral Core*, RO1 HD05574, (Piven Network PI, **Estes, UW Site PI**)

06/01/12-05/31/15, *Strengthening the effects of parent-delivered early intervention to improve symptoms of ASD*, Autism Speaks Foundation (**Estes, PI**)

07/01/08-6/30/14, *Longitudinal Brain Imaging Study of Infants Not Progressing to Autism*, Simons Foundation, (Piven, network PI, Dager PI/ **Estes, Co-PI UW site**)

08/01/07-07/31/13, *A Multi-Site Randomized Study of Intensive Treatment for Toddlers with Autism*, NIMH R01MH081757, (Rogers, network PI; **Estes, PI-UW site**)

07/01/07-6/30/13, *A Longitudinal MRI Study of Infants at Risk for Autism*, NIH, R01 HD055741, (Piven, network PI, Dager; PI/ **Estes, Co-PI UW site**)

07/01/07-06/30/13, *Behavioral Quality Control for a Longitudinal MRI Study of Infants at Risk for Autism*, NIH R01 HD055741 (**Estes, PI**)

09/20/08-6/30/13, *A Longitudinal MRI Study of Infants at Risk for Autism-NIH Supplement*, NIH R01 HD055741, (Piven, network PI, Dager; PI/**Estes, Co-PI UW site**)

04/01/08-03/31/13, *ACE Supplement to a Longitudinal MRI Study of Infants at Risk for Autism*, R01 HD55741 (Piven, Network PI, Dager, UW Site PI/**Estes, Co-PI UW site**)

02/01/09-01/31/13, *Collaborative Risk and Outcome Scientific Study*, Autism Speaks 6020 (Piven and Newshaeffer, network Co-PIs, Dager, UW site PI/**Estes, co-investigator**)

02/01/09-01/31/13, *Collaborative Risk and Outcome Scientific Study: Behavioral Reliability Core*, Autism Speaks 6020 (PI: **Estes**)

09/01/09- 08/31/12, *A Longitudinal 3-D MRSI Study of Infants at High Risk for Autism*. NICHD R01HD065283 (Dager, PI, **Estes, Co-investigator**)

08/01/07-07/31/12, *UW Autism Center of Excellence (ACE) Diagnostic and Assessment Core (Core A)*, NIH P50 HD055782, (**Estes, PI**)

08/01/07-07/31/12, *UW Autism Center of Excellence (ACE) Risk and Protective Factors in the Development of Associated Conditions in Autism (Project V)*, NIH P50 HD055782, (**Estes, PI**)

08/01/07-07/31/12, *UW Autism Center of Excellence (ACE) Endophenotypes in Autism (Project I)*, NIH P50 HD055782, (Wjisman, PI; **Estes**, Co-investigator)

03/01/2009-02/28/2012, *Investigation of the Link Between Early Brain Enlargement and Abnormal Functional Connectivity in Autism Spectrum Disorders*, Autism Speaks 3628 (Kleinhans PI; **Estes**, Co-investigator)

05/01/07-04/30/10, *A Randomized Clinical Trial of Early Intervention for Infants at Risk for Autism: Early Start Denver Model*, Autism Speaks Foundation (Rogers, network PI; **Estes**, PI-UW site)

06/01/97-05/31/07, *Collaborative Program of Excellence in Autism (CPEA) Neurobiology and Genetics of Autism*, NIH/NICHD: PO1 HD 34565, (Dawson, PI; **Estes**, Associate Director, 2000-2007)

07/01/02-06/30/07, *Early Detection of Pervasive Developmental Disorders*, NICHD: RO1 HD3961, (Fein, network PI; Dawson, PI-UW site; **Estes**, supervising psychologist 2005-2007)

10/01/03-09/30/04, *Supplement to Neurobiology and Genetics of Autism* NIMH: PO1 HD 34565, (Dawson, PI, **Estes**, supervising psychologist);

06/01/97-05/31/07, *Collaborative Program of Excellence in Autism (CPEA) Neurobiology and Genetics of Autism*, NIH/NICHD: PO1 HD 34565, (Dawson, PI; **Estes**, Research scientist, 1998-2000)

1992-1994, *FAST Track Project*, University of Washington, Department of Psychology, (Greenberg/McMahon, PI; **Estes**, Graduate research assistant)

1988-1991, *Oregon Social Learning Center*, Eugene, OR, (T. J. Dishion, PI; **Estes**, research assistant)

CLINICAL EXPERIENCE

2001-2003, *University of Washington Autism Center Clinic*, staff psychologist

2000-2001, *University of Washington, Department of Psychology*, clinical supervisor

1997, *University of Washington, Department of Psychology, Psychological Services and Training Center*, Acting Clinic Director, Supervisor: Corey Fagan, Ph.D.

1995-1997, *University of Washington, Department of Psychology, Psychological Services and Training Center*, Clinical Intake-Teaching Assistant, Supervisor: Corey Fagan, Ph.D.

1994-1995, *Mary Bridge Children's Health Center, Tacoma, WA*, Psychology Extern, Supervisors: Robert Beilke, Ph.D., Arthur Lewy, Ph.D.

1994-1995, *University of Washington Department of Family and Child Nursing Parenting Clinic Parent Training Group* Co-therapist, Supervisor: Carolyn Webster-Stratton, Ph.D.

1993-1994, *University of Washington Outpatient Psychiatry*, Parent Evaluation Training Program Psychology Extern, Supervisor: G. Andrew H. Benjamin, J.D., Ph.D.

1992, *University of Washington, Department of Psychology*, FAST (Families and Schools Together) Track Project Social Skills Group Co-facilitator, Supervisor: Mark T. Greenberg, Ph.D.

BIBLIOGRAPHY

A: Refereed Journals

- Aaronson B, **Estes A**, Rogers SJ, Dawson G, Bernier R. (2021). The Early Start Denver Model Intervention and Mu Rhythm Attenuation in Autism Spectrum Disorders. *J Autism Dev Disord*. doi: 10.1007/s10803-021-05190-7. PMID: 34309743.
- Anney, R., Klei, L., Pinto, D., Almeida, J., Bacchelli, E., Baird, G., Bolshakova, N., Bölte, S., Bolton, P.F., Bourgeron, T., Brennan, S., Brian, J., Casey, J., Conroy, J., Correia, C., Corsello, C., Crawford, E.L., de Jonge, M., Delorme, R., Duketis, E., Duque, F., **Estes, A.**, et al (2012). Individual common variants exert weak effects on risk for autism spectrum disorder. *Human Molecular Genetics*, 21(21), 4781-4792. doi:10.1093/hmg/dd301. (PMC3471395)
- Anney, R., Klei, L., Pinto, D., Regan, R., Conroy, J., Magalhaes, T.R., Correia, C., Abrahams, B.S., Sykes, N., Pagnamenta, A.T., Almeida, J., Bacchelli, E., Bailey, A.J., Baird, G., Battaglia, A., Berney, T., Bolshakova, N., Bölte, S., Bolton, P.F., Bourgeron, T., Brennan, S., Brian, J., Carson, A.R., Casallo, G., Casey, J., Chu, S., Cochrane, L., Corsello, C., Crawford, E.L., Crossett, A., Dawson, G., de Jonge, M., Delorme, R., Drmic, I., Duketis, E., Duque, F., **Estes, A.**, et al. (2010). A genomewide scan for common alleles affecting risk for autism. *Human Molecular Genetics*, 19(20), 4072-4082. doi:10.1093/hmg/ddq307. (PMC2947401)
- Autism Genome Project Consortium, Szatmari, P., Paterson, A.D., Zwaigenbaum, L., Roberts, W., Brian, J., Liu, X.Q., Vincent, J.B., Skaug, J.L., Thompson, A.P., Senman, L., Feuk, L., Qian, C., Bryson, S.E., Jones, M.B., Marshall, C.R., Scherer, S.W., Veland, V.J., Bartlett, C., Mangin, L.V., Goedken, R., Segre, A., Pericak-Vance, M.A., Cuccaro, M.L., Gilbert, J.R., Wright, H.H., Abramson, R.K., Betancur, C., Bourgeron, T., Gillberg, C., Leboyer, M., Buxbaum, J.D., Davis, K.L., Hollander, E., Silverman, J.M., Hallmayer, J., Lotspeich, L., Sutcliffe, J.S., Haines, J.L., Folstein, S.E., Piven, J., Wassink, T.H., Sheffield, V., Geschwind, D.H., Bucan, M., Brown, W.T., Cantor, R.M., Constantino, J.N., Gilliam, T.C., Herbert, M., Lajonchere, C., Ledbetter, D.H., Lese-Martin, C., Miller, J., Nelson, S., Samango-Sprouse, C.A., Spence, S., State, M., Tanzi, R.E., Coon, H., Dawson, G., Devlin, B., **Estes, A.**, et al. (2007). Mapping autism risk loci using genetic linkage and chromosomal rearrangements. *Nature Genetics*, 39(3), 319-328. (PMC4867008)
- Bernier, R., Gerds, J., Munson, J., Dawson, G., **Estes, A.** (2012). Evidence for broader autism phenotype characteristics in parents from multiple-incidence autism families. *Autism Research*, 5(1), 13-20. doi:10.1002/aur.226 (PMC3237782)
- Brune, C.W., Korvatska, E., Allen-Brady, K., Cook, E.H., Dawson, G., Devlin, B., **Estes, A.**, Hennelly, M., Hyman, S.L., McMahon, W.M., Munson, J., Rodier, P.M., Schellenberg, G.D., Stodgell, C.J., & Coon, H. (2008). Heterogeneous association between engrailed-2 and autism in the CPEA network. *American*

- Journal of Medical Genetics Part B (Neuropsychiatric Genetics)*, 147B (2), 187-193. (PMID17948868)
- Casey, J.P., Magalhaes, T., Conroy, J.M., Regan, R., Shah, N., Anney, R., Shields, D.C., Abrahams, B.S., Almeida, J., Bacchelli, E., Bailey, A.J., Baird, G., Battaglia, A., Berney, T., Bolshakova, N., Bolton, P.F., Bourgeron, T., Brennan, S., Cali, P., Correia, C., Corsello, C., Coutanche, M., Dawson, G., de Jonge, M., Delorme, R., Duketis, E., Duque, F., **Estes, A.**, et al. (2012). A novel approach to homozygous haplotype sharing identifies candidate genes in autism spectrum disorder. *Human Genetics*, 131(4), 565-579. doi:10.1007/s00439-011-1094-6 (PMC3303079)
- Chapman, N.H., **Estes, A.**, Munson, J., Bernier, R., Webb, S., Rothstein, J.H., Minshew, N.J., Dawson, G., Schellenberg, G.D., Wijsman, E.M. (2011). Genome scan for IQ discrepancy in autism: evidence for loci on chromosomes 10 and 16. *Human Genetics*, 129(1), 59-70. doi:10.1007/s00439-010-0899-z. (PMC3082447)
- Chaxiong P, Burrows C, Botteron KN, Dager SR, **Estes AM**, Hazlett HC, Schultz RT, Zwaigenbaum L, Piven J, Wolff J; IBIS Network. Relations of Restricted and Repetitive Behaviors to Social Skills in Toddlers with Autism. *J Autism Dev Disord*. 2021 May 6. doi: 10.1007/s10803-021-05014-8. Epub ahead of print. PMID: 33956255.
- Chen, Y., Matshushita, M., Girirajan, S., Lisowski, M., Sun, E., Sul, Y., Bernier, R., **Estes, A.**, Dawson, G., Minshew, N., Schellenberg, G.D., Eichler, E.E., Rieder, M., J., Nickerson, D., Tsuang, D.W., Tsuang, M.T., Wijsman, E.M., Raskind, W.H., Brkanac, Z. (2012). Evidence for involvement of GNB1L in autism. *American Journal of Medical Genetics Part B (Neuropsychiatric Genetics)*, 159B (1), 61-71. doi:10.1002/ajmg.b.32002 (PMC3270696)
- Cidav, Z., Munson, J., **Estes, A.**, Dawson, G., Rogers, S., Mandell, D. (2017). Cost offset associated with Early Start Denver model for children with autism. *Journal of the American Academy of Child & Adolescent Psychiatry*. Sept; 56(9):777-783 doi: 10.1016/j.jaac.2017.06.007
- Corrigan, N.M., Shaw, D.W., **Estes, A.M.**, Richards, T.L., Munson, J., Friedman, S.D., Dawson, G., Artru, A.A., Dager, S.R. (2013). Atypical Developmental Patterns of Brain Chemistry in Children with Autism Spectrum Disorder. *JAMA Psychiatry*, 70(9), 964-974. doi:10.1001/jamapsychiatry.2013.1388 (PMID23903694)
- Corrigan, N.M., Shaw, D.W., Richards, T.L., **Estes, A.M.**, Friedman, S.D., Petropoulos, H., Artru, A.A., Dager, S.R. (2012). Proton magnetic resonance spectroscopy and MRI reveal no evidence for brain mitochondrial dysfunction in children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 42(1), 105-115. doi:10.1007/s10803-011-1216-y. (PMID21404085)
- Dager, S.R., Corrigan, N., **Estes, A.**, Shaw., D.W. (2012). Further commentary on mitochondrial dysfunction in autism spectrum disorder: Assessment and treatment considerations. *Journal of Autism and Developmental Disorders*, 42(1), 105-115. doi:10.1007/s10803-011-1216-y.
- Davlantis, K., **Estes, A.**, Munson., J. Dawson. G., Rogers, S. (2019). A Novel Method for Measuring Learning Opportunities Provided by Parents to Young Children with Autism Spectrum Disorder. *Autism*. doi: 10.1177/1362361318817303. [Epub ahead of print]
- Dawson, G., **Estes, A.**, Munson, J., Schellenberg, G., Bernier, R., Abbot, R. (2007). Quantitative assessment of autism symptom-related traits in probands and parents: Broader phenotype of autism symptom scale. *Journal of Autism and Developmental Disorders*, 37(3), 523-536. doi:10.1007/s10803-006-0182-2 (PMID16868845)

- Dawson, G., Munson, J., **Estes, A.**, Osterling, J., McPartland, J., Toth, K., Carver, L., Abbot, R. (2002). Neurocognitive function and joint attention ability in young children with autism spectrum disorder versus developmental delay. *Child Development, 73*(2), 345-358. (PMID11949896)
- Dawson, G., Toth, K., Abbott, R., Osterling, J., Munson, J., **Estes, A.**, Liaw, J. (2004). Early social attention impairments in autism: Social orienting, joint attention, and attention to distress. *Developmental Psychology, 40*(2), 271-283. doi: 10.1037/0012-1649.40.2.271 (PMID14979766)
- Dawson, G., Webb, S.J, Wijsman, E., Schellenberg, G., **Estes, A.**, Munson, J., Faja S. (2005). Neurocognitive and electrophysiological evidence of altered face processing in parents of children with autism: Implications for a model of abnormal development of social brain circuitry in autism. *Development and Psychopathology, 17*(3), 679-697. doi:10.1017/S0954579405050327 (PMID16262987)
- Devlin, B., Cook, E.H., Coon, H., Dawson, G., Grigorenko, E.L., McMahon, W., Minshew, N., Pauls, D., Smith, M., Spence, M.A., Rodier, P.M., Stodgell, C., Schellenberg, G., Bennett, P., Lainart, J., Escamilla, J., Abbott, R., **Estes, A.**, Munson, J., Yu, C. (2005). Autism and the serotonin transporter: the long and the short of it. *Molecular Psychiatry, 10*(12), 1110-1116. doi:10.1038/sj.mp.4001724 (PMID16103890)
- Dimian, A.F., Botteron, K.N, Dager, S.R., Elison, J.T., **Estes, A.**, Pruett, J.R., Schultz, R.T., Zwaigenbaum, L., Piven, J., Wolff, J.J., & the IBIS Network (2017). Potential Risk Factors for the Development of Self-Injurious Behavior among Infants at Risk for Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders. May;47*(5):1403-1415. doi: 10.1007/s10803-017-3057-9
- Eggebrecht, A.T., Elison, J.T., Feczko, E., Todorov, A., Wolff, J.J., Kandala, S., Adams, C.M., Snyder, A.Z., Lewis, J.D., **Estes, A.**, Zwaigenbaum, L., Botteron, K., McKinstry, R.C., Constantino, J.N., Evans, A., Hazlett, H.C., Dager, S., Paterson, S.J., Schultz, R.T., Styner, M.A., Gerig, G., Das, S., Kostopoulos, P., Schlaggar, B.L., Petersen, S.E., Piven, J., Pruett, J.R., & the IBIS Network (2017). Joint attention and brain functional connectivity in infants and toddlers. *Cerebral Cortex. Mar 1;27*(3):1709-1720. doi:10.1093/cercor/bhw403 (PMID28062515)
- Elison, J.T., Wolff, J.J., Reznick, S., Botteron, K., **Estes, A.**, Gu, H., Hazlett, H., Meadows, A., Paterson, S.J., Zwaigenbaum, L., Piven, J., & the IBIS network (2014). Repetitive Behavior in 12-Month-Olds Later Classified With Autism Spectrum Disorder. *Journal of the American Academy of Child and Adolescent Psychiatry, 53*(11), 1216-1224. doi:10.1016/j.jaac.2014.08.004 (PMC4254502)
- Elison, J.T., Paterson, S.J., Wolff, J.J., Reznick, S., Sasson, N.J., Gu, H., Botteron, K., Dager, S.R., **Estes, A.**, Evans, A., Gerig, G., Hazlett, H., Schultz, R.T., Styner, M., Zwaigenbaum, L., Piven, J., & the IBIS Network (2013). White matter microstructure and atypical visual orienting in 7-month-olds at risk for autism. *The American Journal of Psychiatry, 170*(8), 899-908. doi:10.1176/appi.ajp.2012.12091150 (PMC3863364)
- Emerson, R., Adams, C., Nishino, T., Hazlett, H.C., Wolff, J.J., Zwaigenbaum, L., Constantino, J.N., Shen, M.D., Swanson, M.R., Elison, J.T., Kandala, S., **Estes, A.**, Botteron, K.N., Collins, L., Dager, S.R., Evans, A.C., Gerig, G., Gu, H., McKinstry, R.C., Paterson, S., Schultz, R.T., Styner, M., the IBIS Network, Schlaggar, B.L., Pruett, J.R., Piven, J. (2017). Functional neuroimaging in 6-month-old high-risk infants predicts later autism. *Science Translational Medicine. Jun 7;9*(393) doi: 10.1126/scitranslmed.aag2882

- Emmons KA, Kc Lee A, **Estes A**, Dager S, Larson E, McCloy DR, St John T, Lau BK. Auditory Attention Deployment in Young Adults with Autism Spectrum Disorder (2021) *J Autism Dev Disord*. 2021 May 19. doi: 10.1007/s10803-021-05076-8. Online ahead of print. PMID: 34013478
- Estes, A.**, Yoder, P., McEachin, J., Hellemann, G., Munson, J., Greenson, J., Rocha, M., Gardner, E., Rogers, S.J. (2021). The effect of early autism intervention on parental sense of efficacy in a randomized trial depends on initial level of parent stress. *Autism*. 2021 Apr 16:13623613211005613. doi: 10.1177/13623613211005613. Online ahead of print. PMID: 33858234
- Estes, A.**, St. John, T., Dager, S.R. (2019). What to tell a parent who worries that a young child has autism. *JAMA Psychiatry*. 76(10):1092-1093. doi:10.1001/jamapsychiatry.2019.1234
- Estes, A.**, Swain, D., MacDuffie, K. (2019). The effects of early intervention on parents and family adaptive functioning. *Pediatric Medicine*, <http://dx.doi.org/10.21037/pm.2019.05.05>
- Estes, A.**, Munson, J., St. John, T., Rodda, A., Dager, S.R., Botteron, K., Hazlet, H., Schultz, R., Zwaigenbaum, L., Piven, J, Guralnick, M.J., & the IBIS network (2018). Parent support of preschool peer relationships in younger siblings of children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, Apr;48(4):1122-1132.. doi:10.1007/s10803-017-3202-5
- Estes, A.**, Zwaigenbaum, L., Gu, H., St. John, T., Paterson, S., Elison, J., Hazlet, H., Botteron, K., Dager, S., Schultz, R., Kostopoulos, P., Evans, A., Dawson, G., Eliason, J., Alvarez, S., Piven, J, & the IBIS network (2015). Behavioral, cognitive, and adaptive development in infants with autism spectrum disorder in the first 2 years of life. *Journal of Neurodevelopmental Disorders*, 7(1), 24. doi:10.1186/s11689-015-9117-6 (PMC4511527)
- Estes, A.**, Munson, J., Rogers, S.J, Greenson, J., Winter, J., Dawson, G. (2015). Long-term outcomes of early intervention in 6-year-old children with autism spectrum disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 54(7), 580-587. doi:10.1016/j.jaac.2015.04.005 (PMC4475272)
- Estes, A.**, Vismara, L., Mercado, C., Fitzpatrick, A., Elder, L., Greenson, J., Lord, C., Munson, J., Winter, J., Young, G., Dawson, G., Rogers, S. (2014). The impact of parent-delivered intervention on parents of young children with autism. *Journal of Autism and Developmental Disorders*, 44(2), 353-365. doi:10.1007/s10803-013-1874-z (PMC3888483)
- Estes, A.**, Olson, E., Sullivan K., Greenson, J., Winter, J., Dawson, G., Munson, J. (2013). Parenting-related stress and psychological distress in mothers of toddlers with autism spectrum disorders. *Brain & Development*, 35(2), 133-138. doi:10.1016/j.braindev.2012.10.004 (PMC3552060)
- Estes, A.**, Rivera, V., Bryan, M., Cali, P., Dawson, G. (2011). Discrepancies between academic achievement and intellectual ability in higher-functioning school-aged children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 41(8), 1044-1052. doi:10.1007/s10803-010-1127-3 (PMID21042871)
- Estes, A.**, Shaw, D., Sparks, B., Friedman, S., Geidd, J.N., Dawson, G., Bryan, M., Dager, S.R. (2011). Basal ganglia morphometry and repetitive behavior in young children with autism spectrum disorder. *Autism Research*, 4(3), 212-220. doi:10.1002/aur.193 (PMC3110551)

- Estes, A.**, Munson, J., Dawson, G., Koehler, E., Zhou, X., Abbott, R. (2009). Parenting stress and psychological functioning among mothers of preschool children with autism and developmental delay. *Autism: International Journal of Research and Practice*, 13(4), 375-387. doi:10.1177/1362361309105658 (PMC2965631)
- Estes, A.**, Dawson, G., Sterling, L., Munson, J. (2007). Level of intellectual functioning predicts patterns of associated symptoms in school-age children with autism spectrum disorder. *American Journal of Mental Retardation*, 112(6), 439-449. doi:10.1352/0895-8017(2007)112[439:LOIFPP]2.0.CO;2 (PMID17963435)
- Faja, S., Dawson, G., Sullivan, K., Meltzoff A.N., **Estes, A.**, Bernier, R. (2016). Executive function predicts the development of play skills for verbal preschoolers with autism spectrum disorders. *Autism Research*, 9(12), 1274-1284. doi:10.1002/aur.1608 (PMC4990498)
- Fatemi, S.H., Aldinger, K.A., Ashwood, P., Bauman, M.L., Blaha, C.D., Blatt, G.J., Chauhan, A., Chauhan, V., Dager, S.R., Dickson, P.E., **Estes, A.**, Goldowitz, D., Heck, D.H., Kemper, T.L., King, B.H., Martin, L.A., Millen, K.J., Mittleman, G., Mosconi, M.W., Persico, A.M., Sweeney, J.A., Webb, S.J., Welsh, J.P. (2012). Consensus paper: pathological role of the cerebellum in autism. *Cerebellum*, 11(3), 777-807. doi:10.1007/s12311-012-0355-9 (PMC3677555)
- Gerdts, J.A., Bernier, R., Dawson, G., **Estes, A.** (2013). The broader autism phenotype in simplex and multiplex families. *Journal of Autism and Developmental Disorders*, 43(7), 1597-1605. doi:10.1007/s10803-012-1706-6. (PMID23117424)
- Girault, J.B., Swanson, M.R., Meera, S.S., Grzadzinski, R.L., Shen, M.D., Burrows, C.A., Wolff, J.J., Pandey, J., St.John, T., **Estes, A.**, Zwaigenbaum, L., Botteron, K., Hazlett, H., Dager, S.R., Schultz, R.T., Constantino, J.N., Piven, J. for the IBIS Network, 2020. Quantitative trait variation in ASD probands and toddler sibling outcomes at 24 months. *Journal of Neurodevelopmental Disorders*, 12:5. doi:10.1186/s11689-020-9308-7
- Glessner, J.T., Wang, K., Cai, G., Korvatska, O., Kim, C.E., Wood, S., Zhang, H., **Estes, A.**, Brune, C., Bradfield, J.P., Imielinski, M., Frackelton, E.C., Reichert, J., Crawford, E., Munson, J., Sleiman, P., Chiavacci, R., Annaiah, K., Thomas, K., Hou, C., Glaberson, W., Flory, J., Otieno, F., Garris, M., Soorya, L., Klei, L., Piven, J., Meyer, K.J., Anagnostou, E., Sakurai, T., Game, R.M., Rudd, D.S., Zurawiecki, D., McDougle, C., Davis, L.K., Miller, J., Posey, D., Michaels, S., Kolevzon, A., Silverman, J., Bernier, R., Levy, S.E., Schultz, R.T., Dawson, G., Owley, T., McMahon, W.M., Wassink, T.H., Sweeney, J.A., Nurnberger J.I., Coon, H., Sutcliffe, J.S., Minshew, N.J., Grant, S., Bucan, M., Cook, E.H., Buxbaum, J.D., Devlin, B., Schellenberg, G.D., Hakonarson, H. (2009). Autism genome wide copy number variation reveals ubiquitin and neuronal genes. *Nature*, 459(7246), 569-573. doi:10.1038/nature07953 (PMC2925224)
- Grzadzinski R, Amso D, Landa R, Watson L, Guralnick M, Zwaigenbaum L, Deák G, Estes A, Brian J, Bath K, Elison J, Abbeduto L, Wolff J, Piven J. (2021). Pre-symptomatic intervention for autism spectrum disorder (ASD): defining a research agenda. *J Neurodev Disord*. 13(1):49. doi: 10.1186/s11689-021-09393-y.
- Gunderson J, Worthley E, Grzadzinski R, Burrows C, Estes A, Zwaigenbaum L, Botteron K, Dager S, Hazlett H, Schultz R, Piven J, Wolff J; IBIS Network. (2021). Social and non-social sensory responsivity in toddlers at high-risk for autism spectrum disorder. *Autism Research*, 14(10):2143-2155. doi: 10.1002/aur.2556. Epub 2021 Jun 19. PMID: 34145789

- Hazlett H.C., Gu, H., Munsell, B.C., Kim, S.H., Styner, M., Wolff J.J., Elison, J., Swanson, M., Zhu, H., Botteron, K.N., Collins D.L., Constantino, J.N., Dager, S.R., **Estes, A.**, Evans, A.C., Fonov, V., Gerig, G., Kostopoulos, P., McKinstry, R., Pandey, J., Paterson, S., Pruett, J., Schultz, R.T., Shaw, D., Zwaigenbaum, L., Piven, J., & the IBIS Network (2017). Early brain development in infants at high risk for autism spectrum disorder. *Nature*, *542*(7641), 348-351. doi:10.1038/nature21369 (PMC5336143)
- Hazlett, H.C., Gu, H., McKinstry, R.C., Shaw, D.W., Botteron, K.N., Dager, S.R., Styner, M., Vachet, C., Gerig, G., Paterson, S., Schultz, R., **Estes, A.**, Evans, A., Piven, J., & the IBIS Network (2012). Brain volume findings in six month old infants at high familial risk for autism. *American Journal of Psychiatry*, *169*(6), 601-608. doi:10.1176/appi.ajp.2012.11091425 (PMC3744332)
- Iverson, J. M., Shic, F., Wall, C. A., Chawarska, K., Curtin, S., **Estes, A.**, . . . Young, G. S. (2019). Early motor abilities in infants at heightened versus low risk for ASD: A Baby Siblings Research Consortium (BSRC) study. *Journal of Abnormal Psychology*, *128*(1), 69-80. <http://dx.doi.org/10.1037/abn0000390>
- Jones, E., Dawson, G., Kelly, J., **Estes, A.**, Webb, S. (2017). Parent-delivered early intervention in infants at risk for ASD: Effects on electrophysiological and habituation measures of social attention. *Autism Research*. May;10(5):961-972. doi:10.1002/aur.1754 (PMID28244271)
- Jones, E., Venema, K., Earl, R., Lowy, R., Barnes, K., **Estes, A.**, Dawson, G., Webb, S. (2016). Reduced engagement with social stimuli in 6-month-old infants with later autism spectrum disorder: a longitudinal prospective study of infants at high familial risk. *Journal of Neurodevelopmental Disorders*, *8*, 7. doi:10.1186/s11689-016-9139-8 (PMC4791854)
- Jones, E., Webb, S.J., **Estes, A.**, Dawson, G. (2013). Rule learning in autism: the role of reward type and social context. *Developmental Neuropsychology*, *38*(1), 58-77. doi:10.1080/87565641.2012.727049 (PMC3707509)
- Kim, J.E., Lyoo, I.K., **Estes, A.**, Renshaw, P., Shaw, D.W., Friedman, S.D., Kim, D.J. Yoon, S.J., & Dager, S.R. (2010). Laterobasal amygdalar enlargement in 6- to 7-year-old children with autism spectrum disorder. *Archives of General Psychiatry*, *67*(11), 1187-1197. doi:10.1001/archgenpsychiatry.2010.148 (PMID21041620)
- Kleinhans, N.M., Reiter, M.A., Neuhaus, E., Pauley, G., Dager, S.R., **Estes, A.** (2016). Subregional differences in intrinsic amygdala hyperconnectivity and hypoconnectivity in autism spectrum disorder. *Autism Research*, *9*(7), 760-772. doi:10.1002/aur.1589 (PMC4909596)
- Kleinhans, N.M., Pauley, G., Richards, T., Neuhaus, E., Martin, N., Corrigan, N.M., Shaw, D.W., **Estes, A.**, Dager, S.R. (2012). Age-related abnormalities in white matter microstructure in autism spectrum disorders. *Brain Research*, *1479*, 1-16. doi:10.1016/j.brainres.2012.07.056 (PMC3513400)
- Korvatska, O., **Estes, A.**, Munson, J., Dawson, G., Berkis, L., Kohen, R., Yu, C.E., Schellenberg, G.D., Raskind, W.H. (2011). Mutations in the TSGA14 gene in families with autism spectrum disorders. *American Journal of Medical Genetics Part B (Neuropsychiatric Genetics)*, *156B*(3), 303-311. doi:10.1002/ajmg.b.31162 (PMC3552624)
- Kuhl, P.K., Coffey-Corina, S., Padden, D., Munson, J., **Estes, A.**, Dawson, G. (2013). Brain responses to words in 2-year-olds with autism predict developmental outcomes at age 6. *PLoS One*, *8*(5), e64967. doi:10.1371/journal.pone.0064967 (PMC3666972)

- Lau, B.K., Maddox, R. **Estes, A.**, Dager, S.R., Lee, A.K.C (2019). Combining clinical, behavioral, and neurophysiological measures to investigate auditory processing abnormalities in individuals with autism spectrum disorder. *Proceedings of the Meetings on Acoustics*, 35, 050004 (2018); <https://doi.org/10.1121/2.0000971>
- Lainhart, J.E., Bigler, E.D., Bocian, M., Coon, H., Dinh, E., Dawson, G., Deutsch, C.K., Dunn, M., **Estes, A.**, Tager-Flusberg, H., Folstein, S., Hepburn, S., Hyman, S., McMahon, W., Minshew, N., Munson, J., Osann, K., Ozonoff, S., Rodier, P., Rogers, S., Sigman, M., Spence, M.A., Stodgell, C.J., Volkmar, F. (2006). Head circumference and height in autism: a study by the Collaborative Program of Excellence in Autism. *American Journal of Medical Genetics Part A*, 140(21), 2257-2274. doi:10.1002/ajmg.a.31465 (PMC4899843)
- Lewis, J.D., Evans, A.C., Pruett, J.R., Botteron, K., Zwaigenbaum, L., **Estes, A.**, Gerig, G., Collins, L., Kostopoulos, P., McKinstry, R., Dager, S.R., Paterson, S., Schultz, R., Styner, M., Hazlett, H., Piven, J., & the IBIS network (2014). Network inefficiencies in autism spectrum disorder at 24 months. *Translational Psychiatry*, 4, e388. doi:10.1038/tp.2014.24 (PMC4035719)
- Lewis, JD, Evans AC, Pruett JR Jr, Botteron KN, McKinstry RC, Zwaigenbaum L, **Estes A**, Collins DL, Kostopoulos P, Gerig G, Dager S, Paterson S, Schultz RT, Styner M, Hazlett H, Piven J; (2017). The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. *Biological Psychiatry*. Aug 1;82(3):176-185. doi: 10.1016/j.biopsych.2017.03.006.
- Liu, X.Q., Paterson, A.D., Szatmari, P., Bailey, A.J., Baird, G., Bartlett, C., Battaglia, A., Berney, T., Betancur, C., Bölte, S., Bolton, P.F., Brian, J., Bryson, S.E., Buxbaum, J.D., Cantor, R.M., Cook, E.H., Coon, H., Corsello, C., Cuccaro, M.L., Davis, K.L., Dawson, G., de Jonge, M., Devlin, B., Ennis, S., **Estes, A.**, et. al. (2008). Genome-wide linkage analyses of quantitative and categorical autism subphenotypes. *Biological Psychiatry*, 64(7), 561-570. doi:10.1016/j.biopsych.2005.05.023 (PMC2670970)
- MacDuffie, KE, **Estes, AM**, Peay, HL, Pruett, JR, Wilfond, BS (2021). The ethics of predicting autism spectrum disorders in infancy. *Journal of the American Academy of Child and Adolescent Psychiatry*. doi 10.1016/j.jaac.2021.01.006
- MacDuffie KE, **Estes AM**, Harrington LT, Peay HL, Piven J, Pruett JR Jr, Wolff JJ, Wilfond BS. Presymptomatic Detection and Intervention for Autism Spectrum Disorder. *Pediatrics*. 2021 May;147(5):e2020032250. doi: 10.1542/peds.2020-032250. Epub 2021 Apr 14. PMID: 33853890; PMCID: PMC8085996.
- MacDuffie, KE, Munson, J., Greenson, J., Ward, T.M., Rogers, S.J., Dawson, G., **Estes, A.*** (2020). Sleep problems and trajectories of restricted and repetitive behaviors in children with neurodevelopmental disabilities. *Journal of Autism and Developmental Disabilities*. doi: 10.1007/s10803-020-04438-y
- MacDuffie, K.E., Shen, M.D., Dager, S.R., Styner, M.A., Kim, S.H., Paterson, S., Pandey, J., St. John, T., Elison, J.T., Wolff, J.J., Swanson, M.R., Botteron, K.N., Zwaigenbaum, L., Piven, J., **Estes, A.M***, IBIS Network. (2020). Sleep-onset problems and subcortical development in infants later diagnosed with autism spectrum disorder. *The American Journal of Psychiatry*. Jun 1;177(6):518-525. doi: 10.1176/appi.ajp.2019.19060666.
- MacDuffie, KE, Turner-Brown, L., **Estes, A.**, Wilfond, B.S., Dager, S.R., Pandey, J., Zwaigenbaum, L., Botteron, K.N., Pruett, J.R., Piven, J., Peay, H.L. (2019). “If he has it, we know what to do”: Parent perspectives on familial risk for autism spectrum disorder. *Journal of Pediatric Psychology*. doi: 10.1093/jpepsy/jsz076. [Epub ahead of print]

- Marrus, N., Eggebrecht, A.T., Todorov, A., Elison, J.T., Wolff, J.J., Cole, L., Gao, W., Pandey, J., Shen, M.D., Swanson, M.R., Emerson, R.W., Kohr, C.L., Adams, C.M., **Estes, A.**, Zwaigenbaum, L., Botteron, K., McKinstry, R.C., Constantino, J., Evans, A.C., Hazlett, H., Dager, S.R., Paterson, S.J., Schultz, R.T., Styner, M.A., Gerig, G., IBIS, Schlaggar, B.L., Piven, J., Pruett, J.R. (2017). Walking, gross motor development, and brain functional connectivity in infants and toddlers. *Cerebral Cortex*, 1-14. doi: 10.1093/cercor/bhx313
- Marrus, N., Hall, L.P., Paterson, S.J., Elison, J.T., Wolff, J.J., Swanson, M.R., Parish-Morris, J., Eggebrecht, A.J., Pruett, J.R., Hazlett, H.C., Zwaigenbaum, L., Dager, S.R., **Estes, A.M.**, Schultz, R.T., Botteron, K., Piven, J., Constantino, J. (2018). Language Delay Aggregates in Toddler Siblings of Children with Autism Spectrum Disorder. *Journal of Neurodevelopmental Disorders*. 10(1):29. doi: 10.1186/s11689-018-9247-8.
- McDaniel J, Yoder P, **Estes A**, Rogers SJ. Stability of Vocal Variables Measured During the Early Communication Indicator for Children With Autism Spectrum Disorder. *Am J Intellect Dev Disabil*. 2021 Mar 1;126(2):142-157. doi: 10.1352/1944-7558-126.2.142. PMID: 33651890.
- McDaniel, J., Yoder, P., **Estes, A.**, & Rogers, S. J. (2020). Predicting expressive language from early vocalizations in young children with autism spectrum disorder: Which vocal measure is best? *Journal of Speech Language and Hearing Research*. 1-12. doi: 10.1044/2020 JSLHR-19-00281
- McDaniel, J., Yoder, P., **Estes, A.**, & Rogers, S. J. (2020). Validity of Vocal Communication and Vocal Complexity in Young Children with Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*.
- McDaniel, J., Yoder, P., **Estes, A.**, & Rogers, S. J. (in press). Predicting Expressive Language from Early Vocalizations in Young Children with Autism Spectrum Disorder: Which Vocal Measure is Best? *Journal of Speech, Language, and Hearing Research*.
- McKinnon CJ, Eggebrecht AT, Todorov A, Wolff JJ, Elison JT, Adams CM, Snyder AZ, **Estes AM**, Zwaigenbaum L, Botteron KN, McKinstry RC, Marrus N, Evans A, Hazlett HC, Dager SR, Paterson SJ, Pandey J, Schultz RT, Styner MA, Gerig G, Schlaggar BL, Petersen SE, Piven J, Pruett JR Jr; IBIS Network. (2019). Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. *Biological Psychiatry Cognitive Neuroscience Neuroimaging*. 4(1):50-61. doi: 10.1016/j.bpsc.2018.09.008.
- Meera, S.S., Donovan, K., Wolff, J.J., Zwaigenbaum, L., Elison, J.T., Kihl, T., Shen, M.D., Estes, A., Hazlett, H.C., Watson, L.R., Baranek, G.T., Swanson, M.R., St. John, T., Burrows, C.A., Schultz, R.T., Dager, S.R., Botteron, K.N., Pandey, J., Piven, J. (2020). Towards a data driven approach to screen for autism risk at 12 months of age. *Journal of the American Academy of Child and Adolescent Psychiatry*.
- Mitra A, Snyder AZ, Tagliazucchi E, Laufs, H., Elison, J., Emerson, R.W., Shen, M.D., Wolff, J.J., Botteron, K.N., Dager, S.R., **Estes, A.M.**, Evans, A., Gerig, G., Hazlett, H., Paterson, S.J., Schultz, R.T., Styner, M.A., Zwaigenbaum, L., IBIS Network, Schlaggar, B.L., Piven, J., Pruett, J., Raichle, M. (2017). Resting-state fMRI in sleeping infants more closely resembles adult sleep than adult wakefulness. *PLoS One*. 2017;12(11):e0188122. doi:10.1371/journal.pone.0188122
- Munson, J., Dawson, G., Sterling, L., Beauchaine, T., Zhou, A., Kohler, E., Lord, C., Rogers, S., Sigman, M., **Estes, A.**, Abbott, R. (2008). Evidence for latent

- classes of IQ in young children with autism spectrum disorder. *American Journal on Mental Retardation*, 113(6), 439-452. doi:10.1352/2008.113:439-452 (PMC2991056)
- Neuhaus, E., Jones, E.J., Barnes, K., Sterling, L., **Estes, A.**, Munson, J., Dawson, G., Webb, S.J. (2016). The relationship between early neural responses to emotional faces at age 3 and later autism and anxiety symptoms in adolescents with autism. *Journal of Autism and Developmental Disorders*, 46(7), 2450-2463. doi:10.1007/s10803-016-2780-y (PMC5305034)
- Noor, A., Whibley, A., Marshall, C.R., Gianakopoulos, P.J., Piton, A., Carson, A.R., Orlic-Milacic, M., Lionel, A., Sato, D., Pinto, D., Drmic, I., Noakes, C., Senman, L., Zhang, X., Mo, R., Gauthier, J., Crosbie, J., Pagnamenta, A.T., Munson, J., **Estes, A.**, Fiebig, A., Franke, A., Schreiber, S., Stewart, A.F., Roberts, R., McPherson, R., Guter, S.J., Cook Jr., E.H., Dawson, G., Schellenberg, G.D., Battaglia, A., Maestrini, E., Autism Genome Project Consortium, Jeng, L., Hutchison, T., Rajcan-Separovic, E., Chudley, A.E., Lewis, S.M., Liu, X., Holden, J., Fernandez, B., Zwaigenbaum, L., Bryson, S.E., Roberts, W., Szatmari, P., Gallagher, L., Stratton, M.R., Gecz, J., Brady, A.F., Schwartz, C.E., Schachar, R.J., Monaco, A.P., Rouleau, G.A., Hui, C., Raymond, F.L., Scherer, S.W., Vincent, J.B. (2010). Disruption at the PTCHD1 locus on Xp22.11 in autism spectrum disorder and intellectual disability. *Science Translational Medicine*, 2(49), 49ra68. doi:10.1126/scitranslmed.3001267 (PMC2987731)
- Paterson, S.J., Wolff, J.J., Elison, J.T., Winder-Patel, B., Zwaigenbaum, L., **Estes, A.**, Pandey, J., Schultz, R., Botteron, K., Dager, S.R., Hazlett, H., Piven, J., and the IBIS Network (2019). The importance of temperament for understanding early manifestations of autism spectrum disorder in high-risk infants. *Journal of Autism and Developmental Disorders*.49(7):2849-2863. doi: 10.1007/s10803-019-04003-2.
- Peng L, Lin L, Lin Y, Chen YW, Mo Z, Vlasova RM, Kim SH, Evans AC, Dager SR, Estes AM, McKinstry RC, Botteron KN, Gerig G, Schultz RT, Hazlett HC, Piven J, Burrows CA, Grzadzinski RL, Girault JB, Shen MD, Styner MA. (2021). Longitudinal Prediction of Infant MR Images With Multi-Contrast Perceptual Adversarial Learning. *Frontiers Neuroscience*, 9(15). doi: 10.3389/fnins.2021.653213. PMID: 34566556
- Penney AM, Greenson J, Schwartz IS and Estes AM (2022) "On-Time Autism Intervention": A Diagnostic Practice Framework to Accelerate Access. *Front. Psychiatry* 13:784580. doi: 10.3389/fpsy.2022.784580
- Pinto, D., Pagnamenta, A.T., Klei, L., Anney, R., Merico, D., Regan, R., Conroy, J., Magalhaes, T.R., Correia, C., Abrahams, B.S., Almeida, J., Bacchelli, E., Bader, G.D., Bailey, A.J., Baird, G., Battaglia, A., Berney, T., Bolshakova, N., Bolte, S., Bolton, P.F., Bourgeron, T., Brennan, S., Brian, J., Bryson, S.E., Carson, A.R., Casallo, G., Casey, J., Chung, B.H., Cochrane, L., Corsello, C., Crawford, E.L., Crossett, A., Cytrynbaum, C., Dawson, G., de Jonge, M., Delorme, R., Drmic, I., Duketis, E., Duque, F., **Estes, A.**, et al., (2010). Functional impact of global rare copy number variation in autism spectrum disorders. *Nature*, 466(7304), 368-372. doi:10.1038/nature09146 (PMC3021798)
- Plate S, Yankowitz L, Resorla L, Swanson MR, Meera SS, Estes A, Marrus N, Cola M, Petrulla V, Faggen A, Pandey J, Paterson S, Pruett JR Jr, Hazlett H, Dager S, St John T, Botteron K, Zwaigenbaum L, Piven J, Schultz RT, Parish-Morris J; IBIS Network. (2022). Infant vocalizing and phenotypic outcomes in autism: Evidence from the first 2 years. *Child Development*. 2021 Oct 28. doi: 10.1111/cdev.13697. Online ahead of print. PMID: 34708871

- Pruett J., Kandala, S., Hoertel, S., Snyder, A.Z., Elison, J.T., Nishino, T., Feczko, E., Dosenbach, N., Nardos, B., Power, J.D., Adeyemo, B., Botteron, K.N., McKinstry, R.C., Evans, A.C., Hazlett, H.C., Dager, S.R., Paterson, S., Schultz, R.T., Collins, D.L., Fonov, V., Styner, M., Gerig, G., Das, S., Kostopoulos, P., Constantino, J.N., **Estes, A.**, IBIS Network, Petersen, S.E., Schlaggar, B.L., Piven, J. (2015). Accurate age classification of 6 and 12 month-old infants based on resting-state functional connectivity magnetic resonance imaging data. *Developmental Cognitive Neuroscience*, 12, 123-133. doi:10.1016/j.dcn.2015.01.003 (PMC4385423)
- Rodda, A., **Estes, A.**, (2018). Beyond social skills: supporting peer relationships and friendships for school-aged children with autism spectrum disorder. *Seminars in Speech and Language*, 39 (2), 178-194.
- Rogers, S.J., Yoder, P., **Estes, A.**, Warren, Z., McEachin, J., Munson, J., Rocha, M., Greenson, J., Wallace, L., Gardner, E., Dawson, G., Sugar, C.A., Helleman, G., Whelan, F. (2020). A multisite randomized controlled trial comparing the effects of intervention intensity and intervention style on outcomes of young children with autism. *Journal of the American Academy of Child and Adolescent Psychiatry*. Aug 24;S0890-8567(20)31350-2. doi: 10.1016/j.jaac.2020.06.013. Epub ahead of print. PMID: 32853704
- Rogers, S.J., **Estes, A.**, Lord, C., Munson, J., Rocha, M., Winter, J., Greenson, J. Colombi, C., Dawson, G., Vismara, L. Sugar, C., Helleman, G., Whelan, F., Talbott, M., (2019). A Multisite Randomized Controlled Two-Phase Trial of the Early Start Denver Model Compared to Treatment as Usual, *Journal of the American Academy of Child and Adolescent Psychiatry*, DOI: <https://doi.org/10.1016/j.jaac.2019.01.004>
- Rogers SJ, **Estes, A.**, Vismara L, Munson J, Zierhut C, Greenson J, Dawson G, Rocha M, Sugar C, Senturk D, Whelan F, Talbott M. (2018). Enhancing low-intensity coaching in parent implemented Early Start Denver Model intervention for early autism: A randomized comparison treatment trial. *Journal of Autism and Developmental Disorders*, 49(2):632-646. doi: 10.1007/s10803-018-3740-5.
- Rogers, S.J., **Estes, A.**, Lord, C., Vismara, L., Winter, J., Fitzpatrick, A., Guo, M., Dawson, G. (2012). Effects of a brief ESDM-based parent intervention on toddlers at risk for autism spectrum disorders: a randomized controlled trial. *Journal of the American Academy of Child and Adolescent Psychiatry*, 51(10), 1052-1065. doi:10.1016/j.jaac.2012.08.003 (PMC3487718)
- Schellenberg, G., Dawson, G., Sung, Y.J., **Estes, A.**, Munson, J., Rosenthal, E., Rothstein, J., Flodman, P., Smith, M., Coon, H., Leong, L., Yu, C.E., Stodgell, C., Rodier, P.M., Spence, M.A., Minshew, N., McMahon, W.M., Wijsman, E. (2006). Evidence for multiple loci from a genome scan of autism kindreds. *Molecular Psychiatry*, 11(11), 1049-1060, 979 doi:10.1038/sj.mp.4001874 (PMID16880825)
- Schmied, A; Soda, T; Gerig, G; Styner, M; Swanson, MR; Elison, JT; Shen, MD; McKinstry, RC; Pruett, JR; Botteron, KN; **Estes, AM**; Dager, SR; Hazlett, HC; Schultz, RT; Piven, J; Wolff, JJ (2020). Sex differences associated with corpus callosum development in human infants: A longitudinal multimodal imaging study. *NeuroImage*, 215, doi: 10.1016/j.neuroimage.2020.116821
- Shen MD, Swanson MR, Wolff JJ, Elison JT, Girault JB, Kim SH, Smith RG, Graves MM, Weisenfeld LAH, Flake L, MacIntyre L, Gross JL, Burrows CA, Fonov VS, Collins DL, Evans AC, Gerig G, McKinstry RC, Pandey J, St John T, Zwaigenbaum L, **Estes AM**, Dager SR, Schultz RT, Styner MA, Botteron KN, Hazlett HC, Piven J; IBIS Network. Subcortical Brain Development in Autism

- and Fragile X Syndrome: Evidence for Dynamic, Age- and Disorder-Specific Trajectories in Infancy. *Am J Psychiatry*. 2022 Mar 25:appiajp21090896. doi: 10.1176/appi.ajp.21090896. Epub ahead of print. PMID: 35331012.
- Shen, M.D., Kim, S.H., McKinstry, R.C., Gu, H., Hazlett, H.C., Nordahl, C., Emerson, R., Shaw, D., Elison, J.T., Swanson, M.R., Fonov, V., Gerig, G., Dager, S., Botteron, K., Paterson, S., Schultz, R.T., Evans, A.C., **Estes, A.**, Zwaigenbaum, L., Styner, M.A., Amaral, D.G., Piven, J. (2017). Increased extra-axial cerebrospinal fluid in high-risk infants who later develop autism. *Biological Psychiatry*. 82(3):186-193. doi:10.1016/j.biopsych.2017.02.1095
- Siller, M., Morgan, L., Turner-Brown, L., Baggett, K., Baranek, G., Brian, J., Bryson, S., Carter, A., Crais, E., **Estes, A.**, Kasari, C., Landa, R. Lord, C., Messinger, D., Mundy, P., Odom, S.L., Reznick, S., Roberts, W., Rogers, S., Schertz, H., Smith, I., Stone, W., Watson, L., Wetherby, A., Yoder, P., Zwaigenbaum, L. (2013). Designing studies to evaluate parent-mediated interventions for toddlers with autism spectrum disorders. *Journal of Early Intervention*, 35(4), 355-377. doi: 10.1177/1053815114542507
- Stallworthy, Lasch, Berry, Wolff, Pruett, Marrus, Swanson, Botteron, Dager, **Estes**, Hazlett, Schultz, Zwaigenbaum, Piven, Elison, (2021) Variability in responding to joint attention cues in the first year is associated with autism outcome. *Journal of the American Academy of Child and Adolescent Psychiatry*. May 6:S0890-8567(21)00294-X. doi: 10.1016/j.jaac.2021.03.023. Online ahead of print.PMID: 33965519
- Sterling, L., Munson, J., **Estes, A.**, Murias, M., Webb, S.J., King, B., Dawson, G. (2013). Fear-potentiated startle response is unrelated to social or emotional functioning in adolescents with autism spectrum disorders. *Autism Research*, 6(5), 320-331. doi:10.1002/aur.1289 (PMC4141562)
- Sterling, L., Dawson, G., **Estes, A.**, Greenson, J. (2008). Characteristics associated with presence of depressive symptoms in adults with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 38(6), 1011-1018. doi:10.1007/s10803-007-0477-y (PMID17975722)
- St John T, Woods S, Bode T, Ritter C, Estes A. (2021). A review of executive functioning challenges and strengths in autistic adults. *Clinical Neuropsychology* 9:1-32. doi: 10.1080/13854046.2021.1971767. Online ahead of print. PMID: 34499568
- St. John T, **Estes A**, Begay KK, Munson J, Reiter MA, Dager SR, Kleinhans N. Characterizing Social Functioning in School-Age Children with Sensory Processing Abnormalities. *J Autism Dev Disord*. 2021 May 6. doi: 10.1007/s10803-021-05050-4. Epub ahead of print. PMID: 33956254.
- St. John, T., **Estes, A.**, Dager, S. (2020). Autism Research in the Time of COVID-19. In Amaral, D.G. and de Vries, P.J. (2020), COVID-19 and Autism Research: Perspectives from Around the Globe. *Autism Research*, 13: 844-869. doi:10.1002/aur.2329
- St. John, T., **Estes, A.M.**, Dager, S.R., Kostopoulos, P., Wolff, J.J., Pandey, J., Elison, J.T., Paterson, S.J., Schultz, R.T., Botteron, K., Hazlett, H., Piven, J. (2016). Emerging Executive Functioning and Motor Development in Infants at High and Low Risk for Autism Spectrum Disorder. *Frontiers in Psychology*, 7, 1016. doi:10.3389/fpsyg.2016.01016 (PMC4932099)
- St. John, T., Dawson, G., **Estes, A***. (2018). Brief Report: Executive Function as a Predictor of Academic Achievement in School-Aged Children with ASD. *Journal of Autism and Developmental Disorders*, 48:276-283. doi: 10.1007/s10803-017-3296-9

- Su, P.L., Rogers, S.L., **Estes, A.**, Yoder, P. (2020). The role of early social motivation in explaining variability in functional language in toddlers with autism spectrum disorder. *Autism*. doi: 10.1177/1362361320953260
- Sultana, R., Yu, C.E., Yu, J., Munson, J., Chen, D., Hua, W., **Estes, A.**, Cortes, F., de la Barra, F., Yu, D., Haider, S.T., Trask, B.J., Green, E.D., Raskind, W.H., Disteché, C.M., Wijsman, E., Dawson, G., Storm, D.R., Schellenberg, G.D., Villacres, E.C. (2002). Identification of a novel gene on chromosome 7q11.2 interrupted by a translocation breakpoint in a pair of autistic twins. *Genomics*, 80(2), 129-134. (PMID12160723)
- Sung S, Fenoglio A, Wolff JJ, Schultz RT, Botteron KN, Dager SR, **Estes AM**, Hazlett HC, Zwaigenbaum L, Piven J, Elison JT; IBIS Network. Examining the factor structure and discriminative utility of the Infant Behavior Questionnaire-Revised in infant siblings of autistic children. *Child Dev*. 2022 Apr 29. doi: 10.1111/cdev.13781. Epub ahead of print. PMID: 35485579.
- Sung, Y., Dawson, G., Munson, J., **Estes, A.**, Schellenberg, G., Wijsman, E. (2005). Genetic investigation of quantitative traits related to autism: use of multivariate polygenic models with ascertainment adjustment. *American Journal of Human Genetics*, 76(1), 68-81. doi:10.1086/426951 (PMC1196434)
- Swanson, M.R., Wolff, J.J., Elison, J.T., Gu, H., Hazlett, H.C., Botteron, K., Styner, M., Paterson, S., Gerig, G., Constantino, J., Dager, S., **Estes, A.**, Vachet, C., Piven, J., & the IBIS network (2017). Splenium Development and Early Spoken Language in Human Infants. *Developmental Science*, 20(2). doi:10.1111/desc.12360 (PMC4840090)
- Swanson, M.R., Shen, M. D., Wolff, J. J., Boyd, B., Clements, M., Rehg, M., Elison, J. T., Paterson, S., Parish-Morris, J., Chappell, J. C., Hazlett, H. C., Emerson, W. R., Botteron, K., Pandey, J., Schultz, R., Dager, S. R., Zwaigenbaum, L., **Estes, A.M.**, Piven, J., for the IBIS Network. (2018). Naturalistic home language recordings reveal “hyper-vocal” infants at high familial risk for autism. *Child Development*. Mar;89(2):e60-e73. doi:10.1111/cdev.12777
- Swanson MR, Wolff JJ, Shen MD, Styner M, **Estes A**, Gerig G, McKinstry RC, Botteron KN, Piven J, Hazlett HC; Infant Brain Imaging Study (IBIS) Network. (2018). Development of white matter circuitry in infants with Fragile X Syndrome. *JAMA Psychiatry*. 75(5):505-513. doi: 10.1001/jamapsychiatry.2018.0180.
- Swanson MR, Shen MD, Wolff JJ, Elison JT, Emerson RW, Styner MA, Hazlett HC, Truong K, Watson LR, Paterson S, Marrus N, Botteron KN, Pandey J, Schultz RT, Dager SR, Zwaigenbaum L, **Estes AM**, Piven J; IBIS Network. (2017). Subcortical brain and behavioral phenotypes differentiate infants with autism versus language delay. *Biological Psychiatry Cognitive Neurosci Neuroimaging*. 2(8):664-672. doi: 10.1016/j.bpsc.2017.07.007.
- Swanson MR, Donovan K, Paterson S, Wolff JJ, Parish-Morris J, Meera SS, Watson LR, **Estes AM**, Marrus N, Elison JT, Shen MD, McNeilly HB, MacIntyre L, Zwaigenbaum L, St John T, Botteron K, Dager S, Piven J; IBIS Network. (2019). Early language exposure supports later language skills in infants with and without autism. *Autism Research*, doi: 10.1002/aur.2163. [Epub ahead of print]
- Sweigert, J., St. John, T., Becacy, K., Davis, G.E., Munson, J., Shankland, E., **Estes, A.**, Kleinhans, N (2020). Characterizing olfactory function in children with autism spectrum disorder and children with sensory processing dysfunction. *Brain Sciences*, 0(6), 362; <https://doi.org/10.3390/brainsci10060362>
- Talbott, MR, Young, GS, Munson, J., **Estes, A**, Vismara, LA, Rogers, SJ (2018). The Developmental Sequence and Relations Between Gesture and Spoken

- Language in Toddlers with Autism Spectrum Disorder. *Child Development*. doi: 10.1111/cdev.13203. [Epub ahead of print]
- Tunç B, Pandey J, St John T, Meera SS, Maldarelli JE, Zwaigenbaum L, Hazlett HC, Dager SR, Botteron KN, Girault JB, McKinstry RC, Verma R, Elison JT, Pruett JR Jr, Piven J, **Estes AM**,* Schultz RT*; IBIS Network. Diagnostic shifts in autism spectrum disorder can be linked to the fuzzy nature of the diagnostic boundary: a data-driven approach. *J Child Psychol Psychiatry*. 2021 Apr 7. doi: 10.1111/jcpp.13406. Epub ahead of print. PMID: 33826159. (*Co-senior author)
- Velasquez, F., Qin, X.A., Reilly, M.A., Neuhaus, E., **Estes, A.**, Aylward, E., Kleinhaus, N.M. (2017). Neural Correlates of Emotional Inhibitory Control in Autism Spectrum Disorders. *Research in Developmental Disabilities*. May; 64:64-77 doi: 10.1016/j.ridd.2017.03.008
- Wang, K., Zhang, H., Ma, D., Bucan, M., Glessner, J.T., Abrahams, B.S., Salyakina, D., Imielinski, M., Bradfield, J.P., Sleiman, P., Kim, C.E., Hou, C., Frackelton, E., Chiavacci, R., Takahashi, N., Sakurai, T., Rappaport, E., Lajohchere, C.M., Munson, J., **Estes, A.**, Korvatska, O., Piven, J., Sonnenblick, L.I., Alvarez Retuerto, A., Herman, E.I., Dong, H., Hutman, T., Sigman, M., Ozonoff, S., Klin, A., Owley, T., Sweeney, J.A., Brune, C.W., Cantor, R., Bernier, R., Gilbert, J.R., Cuccaro, M.L., McMahon, W.M., Miller, J., State, M.W., Wassink, T.H., Coon, H., Levy, S., Schultz, R.T., Nurnberger, J.I., Haines, J.L., Sutcliffe, J.S., Cook, E.H., Minshew, N.J., Buxbaum, J.D., Dawson, G., Grant, S., Geshwind, D.H., Pericak-Vance, M., Schellenberg, G.D., Hakonarson, H. (2009). Common genetic variants on 5p14.1 associate with autism spectrum disorders. *Nature*, 459(7246), 528-533. doi:10.1038/nature07999 (PMC2943511)
- Welsh, J.P., **Estes, A.**, 2018. Autism: Exploring the social brain. *E-life*, Vol.7, pii: e35392. DOI: 10.7554/eLife.35392
- Weiss, L.A., Arking, D.E., Daly, M.J., Chakravarti, A., JHU – NIMH Genome Scan Team, Autism Consortium - AGRE Genome Scan Team, Replication Teams Autism Genome Project Consortium, listed alphabetically, Anney, R., Bailey, A.J., Baird, G., Battaglia, A., Berney, T., Betancur, C., Bölte, S., Bolton, P.F., Brian, J., Bryson, S.E, Buxbaum, J.D., Cabrito, I., Cai, G., Cantor, R.M., Cook, E.H., Coon, H., Conroy, J., Correia, C., Corsello, C., Crawford, E.L., Cuccaro, M.L., Dawson, G., de Jonge, M., Devlin, B., Duketis, E., Ennis, S., **Estes, A.**, et al., The Homozygosity Mapping Collaborative for Autism (HMCA), MGH-Oulu Study, MGH-Iran Study, MGH-EDSP Study, Children’s Hospital Boston, Montreal, (2009). A genome-wide linkage and association scan reveals novel loci for autism. *Nature*, 461(7265), 802-808. doi:10.1038/nature08490 (PMC2772655)
- Wolff, J.J., Dimian, A.F., Botteron, K.N., Dager, S.R., Elison, J.T., **Estes, A.**, Hazlett, H.C., Schult, R.T., Zwaigenbaum, L., Piven, J., IBIS Network. (2019). A longitudinal study of parent-reported sensory responsiveness in toddlers at-risk for autism. *Journal of Child Psychology and Psychiatry*. 60(3):314-324, doi.org/10.1111/jcpp.12978
- Wolff, J.J., Swanson, M.R., Elison, J.T., Gerig, G., Pruett Jr, J.R., Styner, M., Vachet, C., Botteron, K., Dager, S., **Estes, A.**, Hazlett, H., Schultz, R.T., Shen, M.D., Zwaigenbaum, L., Piven, J., and the IBIS Network (2017). Neural circuitry at age 6 months associated with later repetitive behavior and sensory responsiveness in autism. *Molecular Autism*, March 4; 8:8. doi: 10.1186/s13229-017-0126-z
- Wolff, J.J., Gerig, G., Lewis, J.D., Soda, T., Styner, M., Vachet, C., Botteron, K.N., Elison, J.T., Dager, S.R., **Estes, A.**, Hazlett, H.C., Shultz, R.T., Zwaigenbaum, L., Piven, J. (2015). Altered corpus callosum morphology associated with autism

- over the first 2 years of life. *Brain: A journal of Neurology*, 138(Pt 7), 2046-2058. doi: 10.1093/brain/awv118 (PMC4492413)
- Wolff, J.J., Botteron, K.N., Dager, S.R., Elison, J.T., **Estes, A.**, Gu, H., Hazlett, H.C., Pandey, J., Paterson, S.J., Schultz, R.T., Zwaigenbaum, L., Piven, J. (2014). Longitudinal patterns of repetitive behavior in toddlers with autism. *Journal of Child Psychology and Psychiatry*, 55(8), 945-953. doi:10.1111/jcpp.12207 (PMC4107191)
- Wolff, J.J., Gu, H., Gerig, G., Elison, J.T., Styner, M., Gouttard, S., Botteron, K., Dager, S., Dawson, G., **Estes, A.**, Evans, A., Hazlett, H., Kostopoulos, P., McKinstry, R., Paterson, S., Schultz, R., Zwaigenbaum, L., Piven, J., & the IBIS network (2012). Differences in white matter fiber tract development present from 6 to 24 months in infants with autism. *American Journal of Psychiatry*, 169(6), 589-600. doi:10.1176/appi.ajp.2011.11091447 (PMC3377782)
- Yoder, P., Rogers, S., **Estes, A.**, Warren, Z., Munson, J., Hellemann, G., McEachin, J. (2020). Interaction of treatment intensity and autism severity on frequency and maturity of spontaneous communication in toddlers with autism spectrum disorder. *Autism Research*. 13: 1902-1012. doi: 10.1002/aur.2416
- Yu, C.E., Dawson, G., Munson, J., D'Souza, I., Osterling, J., **Estes, A.**, Leutenegger, A.L., Flodman, P., Smith, M., Raskind, W.H., Spence, M.A., McMahon, W., Wijsman, W.M., Schellenberg, G.D. (2002). Presence of large deletions in kindreds with autism. *American Journal of Human Genetics*, 71(1), 100-115. doi:10.1086/341291 (PMC384967)
- Yuen, R.K.C., Merico, D., Bookman, M., Howe, J.L., Thiruvahindrapuram, B., Patel, R., Whitney, J., Deflaux, N., Bingham, J., Wang, Z., Pellecchia, G., Buchanan, J., Walker, S., Marshall, C.R., Uddin, M., Zarrei, M., Deneault, E., D'Abate, L., Chan, A.J., Koyanagi, S., Paton, T., Pereira, S.L., Hoang, N., Engchuan, W., Higginbotham, E.J., Ho, K., Lamourex, S., Li, W., MacDonald, J., Nalpathamkalam, T., Sung, W., Tsoi, F., Wei, J., Xu, L., Tasse, A.M., Kirby, E., Van Etten, W., Twigger, S., Roberts, W., Drmic, I., Jilderda, S., Modi, B.M., Kellam, B., Szego, M., Cytrynbaum, C., Weksberg, R., Zwaigenbaum, L., Woodbury-Smith, M., Brian, J., Senman, L., Iaboni, A., Doyle-Thomas, K., Thompson, A., Chrysler, C., Leef, J., Savion-Lemieux, T., Smith, I., Liu, X., Nicolson, R., Seifer, V., Fedele, A., Cook, E.H., Dager, S., **Estes, A.**, Gallagher, L., Malow, B., Parr, J., Spence, S., Vorstman, J., Frey, B.J., Robinson, J.T., Strug, L., Fernandez, B.A., Elsabbagh, M., Carter, M.T., Hallmayer, J., Knoppers, B.M., Anagnostou, E., Szatmari, P., Ring, R.H., Glazer, D., Pletcher, M.T., Scherer, S.W. (2017). Whole genome sequencing resource identifies 18 new candidate genes for autism spectrum disorder. *Nature Neuroscience*. doi:10.1038/nn.4524 (PMID28263302)
- Zhou, V., Munson, J., Greenson, J., Hou, Y., Rogers, S. **Estes, A*** (2017). An exploratory longitudinal study of social and language outcomes in children with autism in bilingual home environments. *Autism*. 23(2):394-404, 1:1362361317743251. doi: 10.1177/1362361317743251.
- Zwaigenbaum, L., Bauman, M.L., Choueiri, R., Kasari, C., Carter, A., Granpeesheh, D., Mailloux, Z., Roley, S.S., Wagner, S., Fein, D., Pierce, K., Buie, T., Davis, P.A., Newschaffer, C., Robins, D., Wetherby, A., Stone, W.L., Yirmiya, N., **Estes, A.**, Hansen, R.L., McPartland, J.C., Natowicz, M.R. (2015). Early Intervention for Children with Autism Spectrum Disorder Under 3 Years of Age: Recommendations for Practice and Research. *Pediatrics*, 136 Suppl 1, S60-S81. doi:10.1542/peds.2014-3667E (PMID26430170)

- Zwaigenbaum, L., Bauman, M.L., Fein, D., Pierce, K., Buie, T., Davis, P.A., Newschaffer, C., Robins, D.L., Wetherby, A., Choueiri, R., Kasari, C., Stone, W.L., Yirmiya, N., **Estes A.**, Hansen, R.L., McPartland, J.C., Natowicz, M.R., Carter, A., Granpeesheh, D., Mailloux, Z., Roley, S.S., Wagner, S. (2015). Early Screening of Autism Spectrum Disorder: Recommendations for Practice and Research. *Pediatrics*, *136 Suppl 1*, S41-S59. doi:10.1542/peds.2014-3667D (PMID26430169)
- Zwaigenbaum, L., Bauman, M.L., Stone, W.L., Yirmiya, N., **Estes, A.**, Hansen, R.L., McPartland, J.C., Natowicz, M.R., Choueiri, R., Fein, D., Kasari, C., Pierce, K., Buie, T., Carter, A., Davis, P.A., Granpeesheh, D., Mailloux, Z., Newschaffer, C., Robins, D., Roley, S.S., Wagner, S., Wetherby, A. (2015). Early Identification of Autism Spectrum Disorder: Recommendations for Practice and Research. *Pediatrics*, *136 Suppl 1*, S10-S40. doi:10.1542/peds.2014-3667C (PMID26430168)
- Zwaigenbaum, L., Bauman, M.L., Choueiri, R., Fein, D., Kasari, C., Pierce, K., Stone, W.L., Yirmiya, N., **Estes, A.**, Hansen, R.L., McPartland, J.C., Natowicz, M., Buie, T., Carter, A., Davis, P., Granpeesheh, D., Mailloux, Z., Newschaffer, C., Robins, D., Roley, S.S., Wagner, S., Wetherby, A. (2015). Early Identification and Interventions for Autism Spectrum Disorder: Executive Summary. *Pediatrics*, *136 Suppl 1*, S1-S9. doi:10.1542/peds.2014-3667B (PMID26430167)

***senior and/or corresponding author**

B: Book Chapters

- Talbott, M. R.**, Estes, A., Zierhut, C., Dawson, G., & Rogers, S. J. (2016). The Early Start Denver Model. In R. Lang, T. Hancock, & N. N. Singh (Eds.), *Early Intervention for Young Children with Autism Spectrum Disorders* (113 – 149). Switzerland: Springer International Publishing.
- Estes, A.**, Hus, V., Elder, L. (2011). Family adaptive functioning in autism. In D. Amaral, G. Dawson, & D. Geschwind (Eds.), *Autism Spectrum Disorders*, pp. 1182-1195.
- McMahon, R.J., & **Estes, A.** (1997). Conduct problems. In E.J. Mash & L.G. Terdal (Eds.), *Assessment of childhood disorders* (3rd ed.), pp. 130-193. New York: Guilford Press.

C: Other Publications

- Penney, A., & **Estes, A.** (2015, July 29). The Value of Getting to Know Your Child's School Support Team. *Autism Parenting Magazine*, 18-21.
- Estes, A.**, Bernier, R., & Dawson, G. (2004). *Broader Phenotype Autism Symptom Scale; Reliability Manual*. Unpublished Manuscript, UW Autism Center Research Program, Seattle, WA.
- Estes, A.**, Munson, J., Bernier, R., & Dawson, G. (2004). *Broader Phenotype Autism Symptom Scale; Administration and Coding Manual*. Unpublished Manuscript, UW Autism Center Research Program, Seattle, WA.
- Estes, A.** (1992). *Lead Observer's Manual*. Unpublished Manuscript, FAST Track Project, Seattle, WA.
- McMahon, R.J., & **Estes, A.** (1992). *Behavioral Coding System*. Unpublished Manuscript, FAST Track Project, Seattle, WA.
- Rusby, J.C., **Estes, A.**, & Dishion, T.J. (2000). The interpersonal process code. Abstracted in J. Touliatos, B. F. Perlmutter, & G. W. Holden (Eds.), *Handbook of family measurement techniques*, Volume 2. Thousand Oaks, CA: Sage Publications

D: Submitted Manuscripts

Mostapha, M., Kim, S.H., Evans, A.C., Dager, S.R., **Estes, A.**, Mckinstry, R.C., Botteron, K.N., Gerig, G. Pizer, S., Schultz, R.T., Hazlett, H.C., Piven, J. Girault, J., The IBIS Network Shen, M.D., Styner, M.A. (under review) A Novel Method for High-Dimensional Anatomical Mapping of Extra-Axial Cerebrospinal Fluid: Application to the Infant Brain. *Frontiers in Neuroscience*.

E: Selected Abstracts and Refereed Presentations

Alvarez, S., **Estes, A.**, LeBlanc, B., St. John, T., Dager, S., and the IBIS network. (2014, May). *Communication spontaneity in response to direct social prompts predicts ASD symptoms in high and low risk infants* Poster presentation at the International Meeting for Autism Research, Atlanta, GA.

Alvarez, S., **Estes, A.**, Elgin, J., LeBlanc, B., Rosenberg, A., and the IBIS network. (2012, May) *Communication spontaneity in infants at high and low risk for ASD*. Presentation at the International Meeting for Autism Research, Toronto, Canada.

Botteron, K., Dager, S., Elison, J. T., **Estes, A.M.** et.al., (2014, October) *Early Brain Development in High-Risk Infant Samples: Background, Development, and Recent Findings From the ACE-Infant Brain Imaging Study (IBIS)* Symposium presentation at the American Academy of Child & Adolescent Psychiatry Annual Meeting, San Diego, CA.

Brock, C., **Estes, A.**, Sterling, L., & Munson, J. (2010, May). *Associated Psychiatric Conditions, Problem Behavior and Adaptive Functioning in Adolescents with ASD*. Poster presented at the International Meeting for Autism Research, Philadelphia, PA.

Bryan, M.W., **Estes, A.**, & Dager, SR., (2010, May). *Longitudinal Study of Repetitive Behavior and Volumes of the Caudate and Thalamus in Children with Autism Spectrum Disorder Between 3 and 9 Years of Age*. Poster presented at the International Meeting for Autism Research, Philadelphia, PA.

Burner, K., Sterling, L., Munson, J., **Estes, A.**, Dawson, G., Webb, S. (2014, May) *A longitudinal study of emotion processing in ASD and the relation with other clinical symptoms*. Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.

Burner, K., Venema, K.J., Jones, E., **Estes, A.**, King, B., & Webb, SJ. (2010, May). *Examining Temperament in a Longitudinal Study of High-Risk Infants for ASD*. Poster presented at the International Meeting for Autism Research, Philadelphia, PA.

Cali, P.W., **Estes, A.**, St. John, T., Munson, J. & Dawson, G. (2011, May). *Spatial working memory and patterns of academic achievement in 9-year-old children with ASD*. Poster presented at the International Meeting for Autism Research, San Diego, CA.

Coffey-Corina, S., Padden, D., **Estes, A.**, & Kuhl, P.K. (2011, May). *ERPs to Words In Toddlers with ASD Predict Behavioral Measures at 6 Years of Age*. Poster presented at the annual meeting of the International Meeting for Autism Research, San Diego, CA

Corrigan, N.M., Olson, M., Richards, T., Shaw, D.W.W., **Estes, A.**, Posse, S., Dager, S.R., (2012, May). *Brain chemical concentrations in autism spectrum disorder at 6, 12, and 24 months as measured with magnetic resonance spectroscopic imaging*. International Society for Magnetic Resonance Medicine, Melbourne, Australia.

- Dawson, G., Munson, J., **Estes, A.** & Abbot, R. (2003, April). *Early neurocognitive predictors of outcomes in autism*. Poster session presented at the Society for Research on Child Development.
- Dawson, G., Webb, S., **Estes, A.**, Munson, J., & Faja, S. (2005). *Neurophysiological and behavioral evidence of social impairments in relatives of children with autism*. Paper presented at the annual meeting of the NIH Collaborative Program of Excellence and START programs, Bethesda, MD.
- Dawson, G., Webb, S., Wijsman, E., Schellenberg, G., **Estes, A.**, Munson, J., & Faja, S. (2005, April). *Face processing is altered in parents of children with autism: Neurocognitive and neurophysiological evidence*. Poster session presented at the biennial meeting of the Society for Research on Child Development, Atlanta, GA.
- DePolo, L., Parish-Morris, J., McCleery, J., Bateman, L., Thomas, S., Paterson, S. J., Pandey, J., Kostopoulos, P., **Estes, A.**, Botteron, K. N., Hazlett, H. C., Zwaigenbaum, L., Piven, J., and Schultz, R. T., *Say What?: Toddlers' Vocabulary Growth Trajectories Differ By Word Features* (2015, May). Poster presentation at the International Meeting for Autism Research, Salt Lake City, UT.
- Elder, L., **Estes, A.**, Rogers, S., & Zebrowski, S. (2011, May). *Characterizing Parent-Child Interaction in Young Children with ASD Background*. Poster presented at the International Meeting for Autism Research, San Diego, CA.
- Elder, L., **Estes, A.**, Dawson, G., & Munson, J. (2008, May). *Community intervention for autism (1998-2003): Did we meet the guidelines?* Presented at the International Meeting for Autism Research. London, England.
- Elder, L., **Estes, A.**, Munson, J., & King, B. (2009, May). *Patterns of Psychotropic Medication Use in Children with Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, Chicago, IL. Elison, J. T., Gu, H., Evans, A., Wolff, J.J., Botteron, K., Dager, S., **Estes, A.M.** et.al. (2014, October) *Toward Strategic Prevention: Identifying Neural Markers that Predict the Later Emergence of Autism* Symposium presentation at the American Academy of Child & Adolescent Psychiatry Annual Meeting, San Diego, CA.
- Estes, A.** et al., (2019, May). *Sleep Problems, Brain Development, and ASD Risk in the First Two Years of Life*. Poster presentation at the INSAR 2019 Annual Meeting, Palais des congres de Montreal, Montreal, Canada.
- Estes, A.**, (2015, May). *Community Intervention-As-Usual through the lense of the RCT*. Presentation at the International Society for Autism Research Annual Meeting Special Interest Group on Community Intervention, Salt Lake City, UT.
- Estes, A.M.** (2015, February) *Diagnostic Stability in Autism Spectrum Disorders*. Psychiatric Research Society meeting. Park City, UT.
- Estes, A.**, Rogers, SJ, Greenson, J., Munson, J. Winter, J., Dawson G. (2015, May) *Long-term outcomes of early intervention in 6-year-old children with autism*, Poster presentation at the International Society for Autism Research Annual Meeting, Salt Lake City, UT.
- Estes, A.**, and the IBIS network (2014, October). *Early signs of autism: What can we see, when can we see it, and what can we do?* Presentation at the American Academy of Child and Adolescent Psychiatry, San Diego, CA.
- Estes, A.**, Vismara, L., Fitzpatrick, A., Winter, J., Greenson, J., Rocha, M., Dawson, G..., Lord, C., Rogers, S. (2013, May). *Effects of parent and therapist-delivered intervention for toddlers with autism on parent stress and sense of competence: A multi-site, randomized trial*. Poster presented at the Autism Speaks Toddler Treatment Network Annual Meeting, San Sebastian, Spain.

- Estes, A.,** Vismara, L., Fitzpatrick, A., Winter, J., Greenson, J., Rocha, M., Dawson, G., Lord, C., Rogers, S. (2013, May). *Effects of parent and therapist-delivered intervention for toddlers with autism on parent stress and sense of competence: A multi-site, randomized trial.* Poster presented at International Society for Autism Research Annual Meeting, San Sebastian, Spain.
- Estes, A.,** (2013, April). Chair of symposium entitled *Towards a multidisciplinary understanding of clinical expression in autism spectrum disorders.* Society for Research on Child Development Biannual Meeting, Seattle, WA.
- Estes, A.,** (2013, April). *Investigating contributors to associated psychiatric conditions in adolescents with ASD.* Presented as part of symposium at Society for Research on Child Development Biannual Meeting, Seattle, WA.
- Estes, A.** (2013, March). *Biological and clinical moderators of outcome in developmental disorders.* Presentation at the European Winter Conference on Brain Research, Brides les Bains, France.
- Estes, A.** (2013, February). *Longitudinal outcomes in early autism intervention.* Presentation at the Psychiatric Research Society, Park City, UT.
- Estes, A.,** (2017, February). *Peer Relationships in Younger Siblings of Children with ASD.* Presentation at the Psychiatric Research Society, Park City, UT.
- Estes, A., and the IBIS network** (2017, May). *Preschool Peer Relationships in Younger Siblings of Children with ASD.* Presentation at the International Meeting for Autism Research, San Francisco, CA.
- Estes, A.,** and the IBIS network (2012, February). *Prospective characterization of behavior in infants at high-risk for autism: findings from a multi-site imaging study.* Presentation at the Psychiatric Research Society, Park City, UT.
- Estes, A.,** Paterson, S., Gu, H., Zwaigenbaum, L., & Piven J. (2011, May). *Prospective characterization of behavior in high-risk infant sibs: preliminary data at 6 and 12 months of age.* Presentation as part of a scientific panel "Infants at high-risk for Autism: Findings from the Infant Brain Imaging Study (IBIS)" at the International Meeting for Autism Research, San Diego, CA.
- Estes, A.,** Tsui, L., Munson, J., Antovich, D., King, B., & Dawson, G. (2011, May). *Cortisol levels in adolescents with ASD and typical development.* Poster presented at the International Meeting for Autism Research, San Diego, CA.
- Estes, A.** (2011). *Cortisol levels in adolescents with ASD and typical development.* Paper presented at the Psychiatric Research Society, Park City, UT.
- Estes, A.** (2010). *Development in infants at high-risk for autism: preliminary findings from a longitudinal behavioral and neuroimaging study.* Presentation at the Psychiatric Research Society, Park City, UT.
- Estes, A.,** Alvarez, S., Dupont, E., Burner, K., Kelly, J., Dawson, G., Munson, J., King, B., & Webb, S. (2010, May). *Stress in parents of 6-month-old infants with older siblings with autism spectrum disorders.* Poster presented at the International Meeting for Autism Research, Philadelphia, PA.
- Estes, A.,** & Cauce, A.M. (1995). *The work/family interface: Maternal working environments and adolescent well-being in African American families.* Poster presented at convention of the Association for the Advancement of Behavior Therapy, Washington D.C.
- Estes, A.,** & Dager, S. (2007, February). *Basal ganglia morphometry and repetitive behavior in young children with autism.* Presented at the Psychiatric Research Society meeting, Park City, Utah.

- Estes, A., & Dager, S.** (2008, February). *Basal ganglia and repetitive behavior changes in young children with autism*. Presented at the Psychiatric Research Society meeting, Park City, Utah.
- Estes, A., & Dager, S.** (2008, May). *Repetitive behavior, basal ganglia and thalamic changes in 3 and 6 year old children with autism*. Presented at the International Meeting for Autism Research. London, England.
- Estes, A., Dawson, G., Munson, J., Varley, J., Brigham, R., Sterling, L., & Elder, L.** (2007, April). *Further validation of a quantitative scale for assessing broader autism phenotype*. Poster presented at the Society for Research on Child Development, Boston, Massachusetts.
- Estes, A., Koehler, E., & Dawson, G.** (2006, May). *Stress in parents of preschool-aged children with autism, developmental delay, and typical development*. Presented at the annual International Meeting for Autism Research, Montreal, Quebec.
- Estes, A., McMahon, R.J., Mason, C., & Conduct Problems Prevention Research Group (CPPRG)** (1994). *Psychometric properties of the coder impressions inventory*. Poster presented at convention of the Association for the Advancement of Behavior Therapy, San Diego, CA.
- Estes, A., Munson, J., Clary, L., Abbott, R., & Dawson, G.** (2005, April). *Presence of a broader phenotype of autism in siblings from multiplex autism families*. Poster presented at the biennial meeting of the Society for Research on Child Development, Atlanta, GA.
- Faja, S., Bernier, R., Sullivan, K., **Estes, A., Dawson, G.,** (2013, April) *Neurocognitive underpinnings of pretend play in preschoolers with autism spectrum disorders*. Poster presented at Society for Research on Child Development Biannual Meeting, Seattle, WA.
- Greenson, J., **Estes, A.,** Munson, J., Guralnick, M., Tsui, L., Dawson, G. (2011). Peer competence in preschool-aged children with autism spectrum disorders. Poster presented at the Society for Research on Child Development, Montreal, CA.
- Huang S, Pauley G, Neuhaus E, Richards, T., Neva M. Corrigan, Dennis W. Shaw, Artuu A, **Estes A,** Dager SR, Kleinhans N.M. (2013, May). *Developmental differences in the uncinatus fasciculus vary by sex in autism spectrum disorders*. Presented at International Society for Autism Research Annual Meeting, San Sebastian, Spain.
- Jakobovits, R., Aaronson, B., **Estes, A.,** Bocirnea, C. (2017, May). *Data Collection and Token Management System for Group-Based Therapy*. Presentation for the Innovative Technologies Demonstration Session at the International Meeting for Autism Research, San Francisco, CA.
- Kauper, S., Souders, M., Paterson, S., and the IBIS network. (2012, May). *Sleep behaviors in infants at high and low risk for developing autism spectrum disorders* Presentation at the International Meeting for Autism Research, Toronto, Canada.
- Kleinhans, N., Madhyastha, T., Reiter, M. A., **Estes, A. M.,** Shaw, D. W., Grabowski, T. J., and Dager, S. R., (2015, May) *Dynamic Systems Imaging in Adolescents with ASD of Lower and Higher Cognitive Ability*. Presented at International Society for Autism Research Annual Meeting, Salt Lake City, UT.
- Lewis, J.D., Evans, A. C., Pruett, J. R., Botteron, K. N., Zwaigenbaum, L., **Estes, A. M.,** Gerig, G., Collins, D. L., Kostopoulos, P., McKinstry, R. C., Dager, S., Paterson, S. J., Schultz, R. T., Styner, M. A., Hazlett, H. C., Piven, J., and the IBIS network. (2014, May). *White matter inefficiencies in ASD at 24 months* Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.

- MacDuffie, K. Estes, A., et al. (2019, May). *Family Response to Autism Recurrence Risk: Implications for Early MRI Prediction*. Poster presentation at the INSAR 2019 Annual Meeting, Palais des congrès de Montreal, Montreal, Canada.
- Mandell, D., Cidav, Z., Munson, J., **Estes, A.**, Dawson, G. *The Cost Effectiveness of ESDM* (2014, May). Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.
- Marrus, N. et al. (2019, May). *Evidence for an Infant Construct of Social Motivation and Predictive Validity for Autism Spectrum Disorder*. Poster presentation at the INSAR 2019 Annual Meeting, Palais des congrès de Montreal, Montreal, Canada.
- Marrus, N., Hall, L., Paterson, S.J., Elison, J.T., Wolff, J.J., Pruett, J.R., Hazletter, H.C., **Estes, A.M.**, Piven, J., (May, 2014) *Language Impairment as an Endophenotype: A meta-analysis of infant sibling studies*. Poster Presentation at the International Meeting for Autism Research, Atlanta, GA.
- McDaniel, J., **Estes, A.**, Rogers, S. (2017, May). *Child Reciprocal Vocal Contingency Measure Using Automated Vocal Analysis with Children with Autism Spectrum Disorder*. Poster Presentation at the International Meeting for Autism Research, San Francisco, CA.
- McNeilly, H., Swanson, M.R., Parish-Morris, J., Rehg, J., Clements, M., Botteron, K., Hazlett, H., **Estes, A.**, Piven, J. (2017, April). *Meaningful Language Experiences in First Year of Life: Adult-Infant Talk is Positively Associated with Emerging Language Skills*. Conference presentation at the Society for Research in Child Development, Austin, TX.
- Migliaccio, J., Parish-Morris, J., Plate, S., Bateman, L., Wood, J., Slomowitz, R., Maldarelli, R., Pandey, J., Swanson, M., Paterson, S., Marrus, N., **Estes, A.**, Hazlett, H., Zwaigenbaum, L., Botteron, K., Dager, S., Piven, J., Schultz, R.T., and the IBIS Network. (2017, May). *When High-Risk 2-Year Olds Without ASD Talk the Most*. Presented at the International Meeting for Autism Research, San Francisco, CA.
- Pandey, J., Kauper, S., Paterson, S., and the IBIS network. (2013, May) *Adaptive functioning in toddlers with and without ASD: A comparison of two widely used measures*. Poster presented at the International Meeting for Autism Research, San Sebastian, Spain.
- Paterson, S., Wolff, J.J. Swanson, M.R., Elison, J.T., Zwaigenbaum, L., **Estes, A.**, Botteron, K., Hazlett, H., Pandey, J., Schultz, R.T., Piven, J., for the IBIS Network. *The relationship between temperament and brain development in infant siblings with ASD* (2016, May). Presented at the International Meeting for Autism Research, Baltimore, MD.
- Paterson, S., and the IBIS Network. *Longitudinal Trajectories of Language Development in Infants and Toddlers with ASD* (2014, May). Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.
- Paterson, S., Winder, B., **Estes, A.**, Gilman, C., Gu, H., and the IBIS network. *Patterns of temperament development in infants who develop ASD*. (2013, May) Presented at International Society for Autism Research Annual Meeting, San Sebastian, Spain
- Paterson, S., **Estes, A.**, Hazlett, H., Gu, H., Zwaigenbaum, L. (2011). *Cognitive functioning in 6-month-old infants at risk for autism spectrum disorders*. Presented at the Society for Research on Child Development, Montreal, CA.
- Penney, A., **Estes, A.**, Schwartz, I., Greenson, J. (2022). *Early Autism Project ECHO: Bridging the Collaboration Gap Between Behavior Analysts and Part C Providers*. Presented at ABAI Annual Autism Conference, Seattle, WA.

- Plate, S., Parish-Morris, J., Migliaccio, J., Bateman, L., Wood, J., Slomowitz, R., Maldarelli, J., Paterson, S., Pandey, J., Marrus, N., **Estes, A.**, Hazlett, H., Zwaigenbaum, L., Botteron, K., Dager, S., Piven, J., Schultz, R.T., and the IBIS Network (2017, May). *Positive and Negative Affective Vocalizations in 2-Year Olds with ASD*. Presented at the International Meeting for Autism Research, San Francisco, CA.
- Rivera, V., **Estes, A.**, Munson, J., & Cali, P. (2009, May). *Problem Behavior, Social Functioning and Academic Achievement in School-Aged Children with An Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Chicago, IL.
- Rodda, A., **Estes, A.** (2017, May). *Parent-Child Interaction and Peer Relationships in School-Age Children with ASD*. Poster presentation at the International Meeting for Autism Research, San Francisco, CA.
- Rodda, A., **Estes, A.**, Munson, J., (2015, May). *Parent-child mutual responsiveness and language development in young children with Autism Spectrum Disorder*. Poster presented at the International Meeting for Autism Research, Salt Lake City, UT
- Rogers, S., **Estes, A.**, Lord, C., Lange, N., Munson, J., Dawson, G. (2014, May). *Randomized Multisite Replication of Early Start Denver Model Outcomes Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.*
- Rogers, S., Senturk, D., Whelan, F., **Estes, A.**, Munson, J., Talbott, M.R., Vismara, L., Rocha, M.L., (2017, May). **No Title – PATH SUBMISSION**. Presented at the International Meeting for Autism Research, San Francisco, CA.
- St. John, T., **Estes, A. M.**, Alvarez, S. L., Dager, S., Paterson, S. J., Pandey, J., Schultz, R. T., Pruett, J. R., Botteron, K. N., Hazlett, H. C., and Piven, J. (2015, May) *Motor Development, Autism Symptoms, and Emerging Executive Functioning in Infants and Toddlers at High and Low Risk for ASD*. Poster presentation at the International Meeting for Autism Research, Salt Lake City, UT.
- St. John, T., **Estes, A.**, and the IBIS network. *Piaget's A-not-B task in infants at high and low risk for ASD* (2012, May). Presentation at the International Meeting for Autism Research, Toronto, Canada.
- St. John, T., **Estes, A.**, & Munson, J. (2009, May). *Marital Adjustment, Social Support, and Parenting-Related Stress in Mothers and Fathers of Preschool-Aged Children with Autism*. Presented at the International Meeting for Autism Research, Chicago, IL.
- Steiman, M., **Estes, A.**, & Dawson, G. (2006, May). *The enhanced social interaction play scale (NSIPS): Measuring social abilities in children with autism spectrum disorders*. Poster presented at the International Meeting for Autism Research, Montreal, Quebec.
- Sterling, L., Dawson, G., Greenson, J., & **Estes, A.** (2006, May). *Factors associated with presence of depressive symptoms in adults with autism spectrum disorder*. Poster presented at the International Meeting for Autism Research, Montreal, Quebec.
- Sterling, L., **Estes, A.**, Dawson, G., & Munson, J. (2007, April). *The role of cognitive and adaptive functioning in the development of associated conditions in autism*. Poster presented at the Society for Research on Child Development, Boston, Massachusetts.
- Sterling, L., **Estes, A.**, Murias, M., Webb, S., Panagiotides, H., Munson, J., King, B., & Dawson, G. (2011, May). *Physiological characteristics associated with anxiety in adolescents with autism spectrum disorders*. Poster presented at the International Meeting for Autism Research, San Diego, CA.

- Swanson, M.R., Piven, J., Paterson, S., Marrus, N., Shen, M.D., Emerson, R., Elison, J., Wolff, J., Hazlett, H.C., Botteron, K., Schultz, R., Zwaigenbaum, L., **Estes, A.**, (2017, May). *Language Development in High-Familial Risk Infants Who Go on to Have Autism or Language Delay*. Oral presentation at the International Meeting for Autism Research, San Francisco, CA.
- Toth, K., Dawson, G., Munson, J., **Estes, A.**, & Abbott, R. (2003, April). *Role of joint attention, social interaction and play in language and social growth in young children with autism*. Paper presented at the Society for Research on Child Development.
- Thomas, S., Juhi, P., Maldarelli, J.E., Chappell, C., Brown, L.T., **Estes, A. M.**, Zwaigenbaum, L., Schultz, R., Baranek, G.T., Piven, J., (2015, March) *Use of the First Year Inventory (FYI) with Children at High Risk for Autism Spectrum Disorders*. Poster presented at the Society for Research in Child Development 2015 Biennial Meeting, Philadelphia, Pennsylvania.
- Venema, K., Jones, E.J.H., Gleed, A., Elsabbagh, M., Johnson, M., **Estes, A.**, Dawson, G., & Webb, S.J. (2009, May). *Assessing visual attention in 6-month-old infants with increased ASD-risk: The question of reliability*. Presented at the International Meeting for Autism Research, Chicago, IL.
- Verma, R., Ghanbari, Y., Parker, W., Ingahalikar, M., Styner, M. A., Gerig, G., Lewis, J. D., Pruett, J. R., **Estes, A. M.**, Evans, A. C., Das, S., Kostopoulos, P., Hazlett, H. C., Paterson, S. J., Pandey, J., Gu, H., Botteron, K. N., Dager, S., McKinstry, R. C., Schultz, R. T., Piven, J., and the IBIS network. (2014, May) *Atypical unfolding of early brain development in autism: A diffusion tensor imaging study of structural connectivity and white matter organization*. Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.
- Winter, J., **Estes, A.**, Zargar, Z., Greenson, J., Rocha, M., Vismara, L., Fitzpatrick, A., Rogers, S. (2013, May). *Measuring sociodemographic risk in families of very young children receiving early autism intervention*. Poster presented at the International Meeting for Autism Research, San Sebastian, Spain.
- Wolff, J.J., Elison, J.T., Swanson, M.R., Gerig, G., Styner, M.A., Botteron, K.N., Dager, S.R., **Estes, A.M.**, Evans, A.C., Hazlett, H.C., Schultz, R.T., Zwaigenbaum, L., Piven, J., & the IBIS Network (2015, May) *Exploring the neural correlates of repetitive behavior in babies with autism*, Presented at the International Meeting for Autism Research, Salt Lake City, Utah.
- Wolff, J.J., Elison, J. T., Hazlett, H. C., Pandey, J., Paterson, S. J., Botteron, K. N., **Estes, A. M.**, Zwaigenbaum, L., Piven, J., and The IBIS Network. (2014, May). *Emerging Patterns of Repetitive Behavior Linked to Clinical Outcomes in High-Risk Infant Siblings*. Oral Presentation at the International Meeting for Autism Research, Atlanta, GA.

NATIONAL AND INTERNATIONAL INVITATIONAL LECTURES

Early identification of autism spectrum disorders: Ethical considerations and treatment implications. Grand Rounds. Marcus Autism Center, Emory University, March 11, 2022.

Sleep in Autism Spectrum Disorders. Presented to the Family Sleep Institute, December 8, 2021

Building an evidence base for autism intervention: ESDM Trial and Tribulations. Grand Rounds. Oregon Health Sciences University, Portland, OR, September 26, 2021

Characterizing Longitudinal Trajectories of Sleep Development in ASD: Current Challenges and Potential Solutions. Presentation at the SFARI (Simons Foundation) Sleep Workshop, June 25 and June 29, 2021

Early Brain and Behavioral Development in Autism Spectrum Disorders: Implications for Intervention and Clinical Outcomes. Keynote, ABAI-Autism, Seattle, WA, February, 2021

Early identification of autism spectrum disorders: Ethical considerations and treatment NADD 35th Annual Conference Keynote Address- *Brain, Behavior, and Development in Young Children with Autism: What we are learning and where we are going* (November 1, 2018). Seattle, WA

International Conference on Current Advances in Autism Research and Treatment- Hot Topics in Autism Research: Intervention Science. (2018, April 6-8) Peking University, Institute of Mental Health and Sixth Hospital, Beijing, China

Brain Development in Autism Spectrum Disorders: Implications for Behavioral and Clinical Outcomes. (2018, April 11) Tsinghua University, Beijing, China

Continuing Education and Grand Rounds, Early Development in Autism Spectrum Disorders (2018, April 10). Baodi Hospital, Baodi Clinical College of Tianjin Medical University, Tianjin, China

National Zero to Three Conference. Autism Spectrum Disorders: Implications for Behavioral and Clinical Outcomes, Symposium presentation. (November 2017) San Diego, CA

ORCAS Lecture – From Early Identification to Early Intervention (2014, May) Oregon Health Sciences University, Portland, OR

Overview of Major Behavioral Findings. (2014, November) ACE Infant Brain Imaging Study (IBIS) Annual Meeting. Denver, CO.

ACE Infant Brain Imaging Study Network Behavioral Training Workshop (2012, 2008, 2007). Hosted two-day meetings and trained investigators in the use of behavioral assessments for 3, 6, 9, 12, 15, 24 and 36-month-old infants. UW Autism Center, Seattle, WA.

Prospective characterization of behavior in infants at high-risk for autism: findings from a multi-site imaging study (2012). Presentation at the European Winter Conference on Brain Research, Villars-sur-Ollon, Switzerland.

Early intervention in ASD: Early Start Denver Model and parent-mediated intervention (2011). Exploring Autism Research Collaboration between Japan and the United States Joint Academic Conference on Autism Spectrum Disorders, Tokyo, Japan.

Innovations in early intervention for autism spectrum disorders: From genes to brain to behavior (2009). Grand Rounds, Psychiatry Department, University of Vermont, Burlington, VT.

Broader phenotype of autism symptom scale (BPASS; 2008). Workshop presented over two days at University of California Los Angeles and Autism Genetic Resource Exchange on using the BPASS in genetic research. Los Angeles, CA.

Broader phenotype of autism symptom scale (BPASS; 2007). Workshop presented over two days at Massachusetts General Hospital to the Autism Consortium on using the BPASS in genetic research. Boston, MA.

Broader phenotype of autism symptom scale (BPASS; 2007). Preconference workshop presented at International Meeting for Autism Research regarding use of BPASS in research, UW Autism Center, Seattle, WA.

Chair of Symposium on Autism Phenotypes (2007). International Meeting for Autism Research, Seattle, WA.

- Genetic risk for autism: Clinical implications* (2006). Presented at the Indo-US Conference on Autism, New Delhi, India.
- Broader phenotype of autism symptom scale (BPASS: 2004)*. Workshop presented over two days to invited NIH research scientists from the Collaborative Programs of Excellence in Autism network regarding use of BPASS in research, UW Autism Center, Seattle, WA
- Autism spectrum disorders* (2001). Workshop presented over two days on neurobiology, assessment, diagnosis, and treatment of autism spectrum disorders. Alaska Autism Institute, Anchorage, AK.

SELECTED LOCAL INVITATIONAL LECTURES

- Brain and Behavioral Development in Autism Spectrum Disorder: Implications for Clinical Outcomes* (2017, December) Seminars In Hearing and Communication Sciences, University of Washington, Seattle, WA.
- Early Identification and Intervention for Autism – Intermediate Level* (2015, October) presented at the (WSLHA) Washington Speech-Language Hearing Association Convention. Tacoma, WA.
- Autism Spectrum Disorder: When can we see it and what can we do?* (2015, April) Presentation for Autism Awareness month. Seattle Pacific University Seattle, WA.
- Language development in ASD and learning more about the DSM criteria to qualify kids for services* (2014, October) presented at the (WSLHA) Washington Speech-Language Hearing Association Convention. Tacoma, WA.
- Early signs of autism and effective intervention* (2014, September). Keynote address, Family Child Care Conference, Highline College, Des Moines, WA
- Early Intervention Research at UW Autism Center* (2013, January). In-service presentation for Boyer Children’s Center, Seattle, WA.
- Early Signs of autism* (2014, October). In-service presentation for Cooper house, Seattle, WA.
- Overview of Autism* (2014, November). Presentation for LEND program, University of Washington, Center on Human Development and Disability, Seattle, WA.
- Parent-delivered intervention in autism* (2013). Presentation for LEND program, University of Washington, Center on Human Development and Disability, Seattle, WA.
- Parent-delivered intervention in autism* (2012). Presentation to the Boyer Children’s Center staff, Seattle, WA.
- Prospective characterization of behavior in infants at high-risk for autism: findings from a multi-site imaging study* (2012). Presentation for LEND program, University of Washington, Center on Human Development and Disability, Seattle, WA.
- Prospective characterization of behavior in infants at high-risk for autism: findings from a multi-site imaging study* (2012). Presentation for rounds at Seattle Children’s Autism Center, Seattle, WA.
- Early autism identification and intervention* (2011). Washington State Birth to Three Autism Summit; Spokane, WA.
- Early autism intervention: Connecting science and practice* (2010). Seattle Pacific University. Seattle, WA.
- Innovations in Early Autism Intervention: From Genes, to the Brain, to Behavior* (2010). Autism Center, University of Washington. Seattle, WA.
- Innovations in early autism intervention: genes to brain to behavior* (2010). Seminars in Hearing and Communication Sciences, University of Washington, Seattle, WA.

Research on early identification and intervention for autism spectrum disorders (2009). UW Autism Center, Summer Intensive, University of Washington, Seattle, WA.

Early intervention for autism spectrum disorders: Current research at the UW Autism Center (2009). UCEDD/LEND Core Seminar, MCH Leadership Seminar, Center on Human Development and Disability, University of Washington, Seattle, WA.

Early identification of autism spectrum disorders (2008). UCEDD/LEND Core Seminar, MCH Leadership Seminar, Center on Human Development and Disability, University of Washington, Seattle, WA.

Diagnosis and assessment of autism spectrum disorders (2007). Training session presented to psychiatry residents at Children's Hospital, Department of Psychiatry and Behavioral Science, Seattle, WA.

Clinical manifestations of autism spectrum disorders (2006). Presented at the Congress of Epidemiology, Seattle, WA.

Diagnosis and assessment of autism spectrum disorders (2004, 2005). Training session presented to psychiatry residents and staff, Lake City Way Outpatient Psychiatry Clinic, Department of Psychiatry and Behavioral Science, Seattle, WA.

High functioning autism and Asperger's disorder (2004). Presented at the annual Washington State Psychological Association fall conference, Seattle, WA.

Autism in adolescents (2003). University of Washington Summer Institute on Brain and Learning. Seattle, WA.

Autism spectrum disorders (2001). University of Washington Summer Institute on Brain and Learning. Seattle, WA.

Observational methods, observer training, and reliability (1996). Presented at the Meta-Emotions Research Lab, University of Washington, Seattle, WA.

Observational methods and observer training (1995). Presented at the Parenting Clinic research group University of Washington, Seattle, WA.