

**UNIVERSITY OF PENNSYLVANIA – PERELMAN SCHOOL OF MEDICINE**  
Curriculum Vitae

March, 2019

Robert T. Schultz, Ph.D.

Office Address: Center for Autism Research  
The Children’s Hospital of Philadelphia  
Roberts Pediatric Research Building  
2716 South Street, 5<sup>th</sup> floor  
Philadelphia, PA 19146

Education and Training:

1983 BA. with Distinction, University of Delaware (Psychology)  
1990 Internship in Clinical Psychology, The Institute of Living, Hartford, CT  
1991 Ph.D., Univ. of Texas at Austin (Clinical Psychology, Cognitive Neuroscience)  
1991-1994 Postdoctoral Fellowship, Yale University (Developmental Cognitive Neuroscience & Developmental Psychopathology)

Faculty Appointments:

1990-1991 Visiting Scientist, Univ. of Connecticut (Radiology), Farmington, CT  
1994-2000 Assistant Professor, Child Study Center, Yale University School of Medicine  
2000-2007 Associate Professor, Child Study Center and the Dept of Radiology, Yale University School of Medicine  
2007 Harris Endowed Associate Professor, Child Study Center and the Department of Radiology, Yale University School of Medicine  
2007-present Director, Center for Autism Research, Children’s Hospital of Philadelphia  
2008-present R.A.C. Endowed Professor with tenure, Department of Pediatrics, Perelman School of Medicine, University of Pennsylvania  
2011-present Professor, Department of Psychiatry (Secondary appointment with voting rights), Perelman School of Medicine, University of Pennsylvania

Hospital and Administrative Appointments:

2001-2007 Director, Developmental Neuroimaging Program, Yale University School of Medicine  
2006-2007 Chairman, Space Committee, Child Study Center, Yale University  
2007- Present Director, Center for Autism Research, Children’s Hospital of Philadelphia

Other Appointments:

2006-2007 Faculty member, Cognitive Science Interdepartmental Program, Yale University  
2008-present Faculty member, Center for Cognitive Neuroscience, University of Pennsylvania  
2008-present Faculty member, Center for Functional Neuroimaging, University of Pennsylvania  
2008 -present Faculty member, Neuroscience Graduate Group, University of Pennsylvania  
2008-present Faculty member, Psychology Graduate Group, University of Pennsylvania

Licensure:

1992-2010 Psychologist, State of Connecticut

Awards, Honors and Membership in Honorary Societies:

- 1983 Phi Beta Kappa
- 1983 Phi Kappa Phi
- 1983 BA with Distinction, University of Delaware
- 1989 First Prize, Outstanding Student Research Presentation, National Academy of Neuropsychology
- 2008 R.A.C. Endowed Professor, University of Pennsylvania
- 2018 International Society for Autism Research Charter Fellow

Leadership and Professional Roles in Professional & Scientific Societies

International:

*International Society for Autism Research*

President, 2007-2009

Treasurer, 2005-2007

Membership Chair, 2001-2007

Executive Board 2001-2010

Medical Research Council UK (MRC) Study Section (Ad Hoc Reviewer, 2001- 2003, 2012, 2014)

National Advisory Boards:

Scientific Advisory Board, Autism Speaks (previously National Alliance for Autism Research)  
(2002 - 2014)

Scientific Advisory Board, United Kingdom MRC Neuroimaging Consortium on Autism (A.I.M.S.  
network) (2004 - 2010)

Scientific Advisory Board, Neuroscience & Society, Univ. of Pennsylvania (2012-2014)

Scientific Advisory Board, Simons Foundation/Nancy Lurie Marks Foundation sponsored  
Autism & Developmental Disorders Inpatient Research Collaborative network (2013-2016)

Scientific Advisory Board, Simons Foundation Simplex Collection (2013-)

Scientific Advisory Board, Simons Foundation, National Autism Cohort (2015-2016)

Scientific Advisory Board, Roche Pharmaceuticals Autism Treatment Program, 2018

Scientific Advisory Board, Autism Science Foundation 2018-present

Regional Advisory Boards:

Kinney Autism Center Advisory Board, St Joseph's University, Merion Station, PA (2013-)

Board of Directors, Eagles Charitable Foundation, Philadelphia, PA (2017-)

National Scientific Review Panels:

NIH BBBP-2 (O2B) Small Business Innovative Research Study Section (Member, 2000)

National Alliance for Autism Research Study Section (Member, 2000-2005)

NIDCD Study Section (Ad Hoc Reviewer, 2003, 2004)

NICHD Intellectual and Developmental Disabilities Research Center/Mental Retardation and  
Developmental Disabilities Research Center (P30) Study Section (Member, 2005, 2006,  
2014)

Autism Speaks Study Section (Member, 2006- 2012)

Cure Autism Now Study Section (Ad Hoc Reviewer, 2006)

Scientific Advisory Board, Medical Investigation of Neurodevelopmental Disorders (MIND) Institute, University of California, Grants Program (Member, 2002 – 2004)  
 Scientific Advisory Board, Autism Center of North Shore-Long Island Jewish Health System (Member, 2003 – 2007)  
 NIH Interagency Autism Coordinating Committee (Member), 2008  
 NIMH ARRA Editorial Board Review (ZMH1 ERB-S A1), June 19, 2009  
 NIH Special Emphasis Panel Meeting ZHD1 DSR-Y(50): Intellectual and Developmental Disabilities Research Centers (P30), June 29-30, 2011  
 NIH Special Emphasis Panel Meeting ZRG1 BDCN-A(02)M: May 15, 2012.  
 NIH Special Emphasis Panel Meeting ZHD1 DSR-H FV 2, May 6, 2014

#### Editorial Positions

1991-present	Ad Hoc Reviewer for ~ 2 dozen journals, including <u>PNAS</u> , <u>Science</u> , <u>Neuron</u> , <u>Archives of General Psychiatry</u> , <u>Brain</u> , <u>Nature Neuroscience</u> , <u>Journal of Neuroscience</u> , <u>Philosophical Transactions of the Royal Society of London</u> , <u>Cerebral Cortex</u> , <u>Child Development</u> , <u>Biological Psychiatry</u> , <u>Brain</u> , <u>JADD</u> , <u>Journal of Child Psychology and Psychiatry and Allied Disciplines</u> , <u>Neurology</u>
2002-2003	Statistical Editorial Board, <u>American Journal of Psychiatry</u>
2007-2010	Founding Associate Editor, <u>Journal of Autism Research</u>

#### Organizing Roles in Scientific Meetings

1999	Scientific Program Committee, Williams Syndrome Association biannual conference, Dearborn, MI
2001-04, 2008-10 2015	Scientific Program Committee, International Meeting for Autism Research
2006 2010	Conference Chair, International Meeting for Autism Research, Montreal, Canada Co-sponsor, SHANK3 and Phelan-McDermid Syndrome/22q13 Deletion Syndrome, May, 19, 2010, Philadelphia, PA
2015	Chair for Functional Brain Imaging program; IMFAR 2015, Salt Lake City, Utah

#### Academic and Institutional Committees

1997-2007	T32 Postdoctoral Training Selection Committees, Yale Child Study Center
1999-2004	Children's Clinical Research Center Advisory Committee, Yale University
2002-2007	Magnetic Resonance Research Center Advisory Committee, Yale University
2002-2005	Science and Program Directions Committee, Yale Child Study Center
2007	Faculty Search Committees, Yale Child Study Center
2008 -	Faculty member, UPenn Departments of Neuroscience and Psychology (with teaching and graduate student mentoring responsibilities)
2008 -2009	Faculty Search Committee, Department of Pediatrics, University of Pennsylvania School of Medicine
2008 -2012	Child Development Scientific Review Committee, Department of Pediatrics, Children's Hospital of Philadelphia
2011-	Committee on Appointments and Promotions, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania
2011-	T32 Training Program in Neurodevelopmental Disabilities Committee

2011-2012	Faculty Search Committee, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania
2011-2012	Search Committee for Chair of Radiology, Perelman School of Medicine, University of Pennsylvania
2016-	CHOP/Penn, Co-Director Intellectual and Developmental Disabilities Research Center (IDDRC) and Clinical Translational Core Director
2016-17	CHOP Research Institute Strategic Planning subcommittee member
2017-	CHOP Dept. of Pediatric Junior Faculty Advising Program
2017-18	CHOP Department of Child and Adolescent Psychiatry and Behavioral Sciences (DCAPBS) Strategic Planning, Executive Committee

#### Major Academic and Clinical Teaching Responsibilities

1991-1993	Abnormal Psychology (semester long undergraduate course), Quinnipiac College, Hamden, CT
1991-2007	Directed Research (Undergraduate Senior Thesis Course), Department of Psychology, Yale University
1993-2001	Lecturer, Clinical Neuroscience, 2 <sup>nd</sup> Year Medical School Psychiatry Module, Yale University School of Medicine
1994-2004	Course Director, Introduction to Neuropsychology, Child Study Center, Yale University School of Medicine
1995-1996	Course Director, Effective Grant Writing, Child Study Center, Yale University School of Medicine
1993-2007	Consulting Neuropsychologist, Grover Powers Clinic, Child Study Center, Yale University School of Medicine
1996-2007	Clinical Supervisor, APA Clinical Psychology Internship, Child Study Center, Yale University School of Medicine
1997-2007	Lecturer, Autism and Developmental Disabilities, Department of Psychology, Yale University
1997-2007	Lecturer, Seminar in Child Psychiatry, Child Study Center, Yale University School of Medicine
1999-2006	Director, Neuropsychology Internship and Postdoctoral Training Program, Child Study Center, Yale University School of Medicine
2001	Course Director, Intelligence: Theories and Developmental Origins, Yale-New Haven Teachers Institute, Yale University
2001-2007	Postdoctoral Mentor for 12 Fellows, Yale University
2002-2007	Seminar Director, Neuroimaging, Child Study Center, Yale University School of Medicine
2003-2007	Lecturer, Seminar in Biomedical Engineering, Department of Biomedical Engineering, Yale University
2003-2005	Intel Science Talent Competition HS Mentor (Sylviane Boddy -Semifinalist)
2005-2007	K Award Mentor, Nina Kadan-Lottick, M.D., M.S.P.H, Assistant Professor, Department of Pediatrics, Yale School of Medicine
2007-present	Symposium Director, Center for Autism Research Distinguished Lecturer Series, Children's Hospital of Philadelphia & Perelman School of Medicine, University of Pennsylvania
2008-present	Guest Lecturer, Department of Psychology Graduate Seminar on Psychopathology, University of Pennsylvania

2009-2015	Primary Faculty Mentor, Susan Levy, MD, Associate Professor, Perelman School of Medicine, University of Pennsylvania
2009-2013	Primary Faculty Mentor for Sarah Paterson, PhD, Assistant Professor, Department of Pediatrics, Perelman School of Medicine, University of Pennsylvania
2011-present	Member, Committee on Appointments and Promotions (COAP), Department of Psychiatry, University of Pennsylvania
2012-present	Primary Faculty Mentor for John Herrington, PhD, Assistant Professor, Department of Child and Adolescent Psychiatry, Perelman School of Medicine, University of Pennsylvania
2012	Course Director “Neurodevelopmental Disorders”, Graduate Seminar NGG 600009, Department of Neuroscience, University of Pennsylvania
2013-present	Primary Faculty Mentor for Judith Miller, PhD, Assistant Professor, Department of Child and Adolescent Psychiatry, Perelman School of Medicine, University of Pennsylvania
2013-present	Primary Faculty Mentor for Ben Yerys, Assistant Professor, Department of Child and Adolescent Psychiatry, Perelman School of Medicine, University of Pennsylvania
2014	Course Co-Director, “Advanced Topics in Behavioral Genetics” Graduate Seminar NGG 578, Department of Neuroscience, University of Pennsylvania
2013-present	Academic Affairs Committee, Department of Psychiatry and Behavioral Sciences (DCAPBS), Children’s Hospital of Philadelphia (CHOP)
2015-2016	Research Institute Strategic Planning Committee, Children’s Hospital of Philadelphia (CHOP)
2016-present	Primary Faculty Mentor for Julia Parish-Morris, PhD, Assistant Professor, Department of Child and Adolescent Psychiatry, Perelman School of Medicine, University of Pennsylvania
2017-present	Primary Faculty Mentor Birkan Tunc, PhD Assistant Professor, Department of Child and Adolescent Psychiatry, Perelman School of Medicine, University of Pennsylvania
2017-	Department of Psychiatry and Behavioral Sciences (DCAPBS), Strategic Planning Committee, Children’s Hospital of Philadelphia (CHOP)

**Bibliography:** Dr. Schultz has co-authored 234 scientific papers and reviews (31 with 100 or more citations). The impact of his work is reflected in his h-index of 68 and 23,849 publication citations (Source: *Google Scholar* March 17, 2019)

Research Publications, peer reviewed

1. Bigler, E., **Schultz, R.**, Grant, M., Knight, G., Lucas, J., Roman, M., Hall, S., & Sullivan, M. Design fluency in dementia of the Alzheimer's type: Preliminary findings. *Neuropsychology*, 1988: 2, 127-133.
2. Finn, S., Bailey, M., **Schultz, R.T.**, & Faber, R. Subjective utility ratings of neuroleptics in treating schizophrenia. *Psychological Medicine*, 1990: 20, 843-848. PMID: 1980954
3. Willerman, L, **Schultz, R.**, Rutledge, N., & Bigler, E. *In vivo* brain size and intelligence. *Intelligence*, 1991: 15, 223-228.
4. Willerman, L, **Schultz, R.**, Rutledge, N., & Bigler, E. Hemisphere size asymmetry predicts relative verbal and nonverbal intelligence differently in the sexes: An MRI study of structure-function relations. *Intelligence*, 1992: 16, 315-328.
5. **Schultz, R.T.**, Cho, N.K., Staib, L.H., Kier, L.E., Fletcher, J. M., Shaywitz, S.E., Shankweiler, D.P., Katz, L., Gore, J.C., Duncan, J. S., & Shaywitz, B. Brain morphology in normal and dyslexic children: The influence of sex and age. *Annals of Neurology*, 1994: 35, 732-742. PMID: 8210231.

6. Chappell, P.B., Riddle, M.A., Scahill, L., Lynch, K., **Schultz, R.**, Arnsten, A., Leckman, J.F., & Cohen, D.J. Guanfacine treatment of comorbid attention deficit hyperactivity disorder and Tourette's syndrome: Preliminary clinical experience. Journal of the American Academy of Child and Adolescent Psychiatry, 1995: 34, 1140-1152. PMID: 7559307.
7. **Schultz, R.T.**, Carter, A.S., Gladstone, M., Scahill, L., Leckman, J.F., Peterson, B., Zhang, H., Cohen, D.J., & Pauls, D. Visual-motor, visuoperceptual and fine motor functioning in children with Tourette syndrome. Neuropsychology, 1998: 12, 134-145. PMID: 9460741.
8. Zeng, X., Staib, L., **Schultz, R.T.**, & Duncan, J. Segmentation and Measurement of the Cortex from 3D MR Images. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, 1998: 1496, 519-530.
9. Zeng, X., Staib, L., **Schultz, R.T.**, & Duncan, J. Volumetric layer segmentation using coupled surfaces propagation. Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, 1998, 708-715.
10. Chui, H., Rambo, J., Duncan, J., **Schultz, R.**, & Rangarajan, A. Registration of cortical anatomical structures via robust 3D point matching. Information Processing in Medical Imaging Proceedings, 1999, 168-181.
11. Zeng, X., Staib, L., **Schultz, R.T.**, Tagare, H, Win, L & Duncan, J. A New Approach to 3D Sulcal Ribbon Surface Finding from MR Images. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, 1999: 1679, 148-157.
12. Zeng, X., Staib, L., **Schultz, R.T.**, & Duncan, J. Segmentation and Measurement of the Cortex from 3D MR Images Using Coupled Surfaces Propagation. IEEE Transactions on Medical Imaging, 1999: 18, 927-937. PMID: 10628952.
13. Carter, A.S., O'Donnell, D.A., **Schultz, R.T.**, Scahill, L., Leckman, J.F. & Pauls, D.L. Social and emotional adjustment in children affected with Gilles de la Tourette's syndrome: Associations with ADHD and family functioning. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2000: 41(2), 215-223. PMID: 10750547.
14. **Schultz, R.T.**, Gauthier, I., Klin A., Fulbright, R., Anderson, A., Volkmar, F., Skudlarski, P., Lacadie, C., Cohen, D.J., Gore, J.C. Abnormal ventral temporal cortical activity during face discrimination among individuals with autism and Asperger syndrome. Archives of General Psychiatry, 2000: 57(4), 331-340. PMID: 10768694.
15. Scahill L, Chappell PB, Kim YS, **Schultz, R.T.**, Katsoyich L, Shepherd E, Arnsten AFT, Cohen D.J. Leckman JF. A placebo-controlled study of guanfacine in the treatment of children with Tic Disorders and ADHD. American Journal of Psychiatry, 2001: 158, 1067-1074. PMID: 11431228.
16. Chui, H., **Schultz, R.**, Win, L., Duncan, J.S., Rangarajan, A. A unified framework for brain anatomical feature registration. Information Processing in Medical Imaging, 2001, 300-314.
17. Klin, A, Jones, W., **Schultz, R.**, Volkmar, F., & Cohen, D.J. The social dysfunction in autism: Defining and quantifying the social phenotype in autism. American Journal of Psychiatry, 2002: 159 (6), 895-908
18. Klin, A, Jones, W., **Schultz, R.**, Volkmar, F., & Cohen, D.J. Visual fixation patterns during viewing of naturalistic social situations as predictors of social competence in individuals with autism. Archives of General Psychiatry, 2002: 59, 809-816. PMID: 12215080.
19. Scahill, L., Leckman, J.F., **Schultz, R.T.**, Katsoyich, L., & Peterson, B.S. A placebo-controlled trial of risperidone in Tourette syndrome. Neurology, 2003: 60, 1130-1135. PMID: 12682319.
20. Wang, Y., **Schultz, R.T.**, Constable, R.T., Staib, L.H. Nonlinear estimation and modeling of fMRI data using spatio-temporal support vector regression. Information Processing in Medical Imaging Proceedings, 2003: 18, 647-659. PMID: 15344495.
21. **Schultz, R.T.**, Grelotti, D.J., Klin, A., Kleinman, J., Van der Gaag, C., Marois, R. & Skudlarski, P. The role of the fusiform face area in social cognition: Implications for the pathobiology of autism. Philosophical Transactions of the Royal Society, Series B, 2003: 358, 415-427. PMID: 12639338.

22. Tsatsanis, K.D., Rourke, B.P., Klin, A., Volkmar, F.R., Cicchetti, D. & **Schultz, R.T.** Reduced thalamic volume in high-functioning individuals with autism. Biological Psychiatry, 2003: 53(2), 121–129. PMID: 12547467.
23. Klin, A., Jones, W., **Schultz, R.**, & Volkmar, F.R. The Enactive Mind – from actions to cognition: Lessons from autism Philosophical Transactions of the Royal Society, Series B, 2003: 358(1430), 345-360. PMID: 12639332. PMCID: PMC1693114.
24. Papademetris, X., Jackowski, A.P., **Schultz, R.T.**, Staib, L. H. & Duncan, J. S. Computing 3D non-rigid brain registration using extended robust point matching for composite multisubject fMRI analysis. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, 2003: 2879, 788-795.
25. Chui, H., Win, L., **Schultz, R.**, Duncan, J.S., Rangarajan, A. A unified non-rigid feature registration method for brain mapping. Medical Image Analysis, 2003: 7(2), 113-130. PMID: 12868617.
26. Pasley, B.N., Mayes, L.C. & **Schultz, R.T.** Subcortical discrimination of unperceived objects during binocular rivalry. Neuron, 2004: 42(1), 163-172. PMID: 15066273.
27. Koenig, K., Klin, A. & **Schultz, R.T.** Deficits in social attribution ability in Prader-Willi syndrome. Journal of Autism and Developmental Disabilities, 2004: 34(5), 573-582. PMID: 15628610.
28. Papademetris, X., Jackowski, A.P., **Schultz, R.T.**, Staib, L. H. & Duncan, J. S. Integrated intensity and point-feature nonrigid registration. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, 2004: 3216(2004), 763-770. PMID: 20473359. PMCID: PMC2869095.
29. Yang, J., Papademetris, X., **Schultz, R.T.**, Staib, L.H., Duncan, J.S. Functional brain image analysis using joint function-structure priors. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, Jan. 2004: 3217, 736-744. PMID: 20543899. PMCID: PMC2883266.
30. Cherniske, E.M., Carpenter, T., Klaiman, C., Caprio, S., Young, E., Bregman, J., **Schultz, R.**, & Pober, B. Multisystem study of 20 older adults with Williams syndrome, American Journal of Medical Genetics, 2004: 131(3), 255-264. PMID: 15534874.
31. Grelotti, D.J., Klin, A.J., Gauthier, I., Skudlarski, P., Cohen, D.J., Gore, J.C., Volkmar, F.R., & **Schultz, R.T.** fMRI activation of the fusiform gyrus and amygdala to cartoon characters but not to faces in a boy with autism. Neuropsychologia, 2005: 43(3), 373-385. PMID: 15707614.
32. Jackowski, A.P. & **Schultz, R.T.** Foreshortened dorsal extension of the central sulcus in Williams Syndrome. Cortex, 2005: 41(3), 282-290. PMID: 15871594.
33. O’Shea, A., Fein, D., Cilllessen, A.H., Klin, A. & **Schultz, R.T.** Source memory in children with autism spectrum disorders. Developmental Neuropsychology, 2005:27(3), 337-360. PMID: 15843101.
34. Klin, A., Pauls, D., **Schultz, R.**, & Volkmar, F. Three diagnostic approaches to Asperger syndrome: Implications for research. Journal of Autism and Developmental Disorders, 2005: 35(2), 221-234. PMID: 15909408.
35. Bloch, M.H., Sukhodolsky, D.G, Leckman, J.F. & **Schultz, R.T.** Fine-motor skill deficits in childhood predict adulthood tic severity and global psychosocial functioning in Tourette’s Syndrome. Journal of Child Psychology and Psychiatry, 2006: 47(6), 551-559. PMID: 16712631.
36. Marsh, R, Zhu, H., **Schultz, R.T.** Quackenbush, G., Royal, J., Skudlarski, P., & Peterson, B.S. A developmental fMRI study of self-regulatory control. Human Brain Mapping. 2006: 27(11), 848-863. PMID: 16421886. PMCID: PMC2292452.
37. Thioux, M., Stark, D.E., Klaiman, C. & **Schultz, R.T.** The day of the week when you were born in 700 ms: Calendar computation in an autistic savant. Journal of Experimental Psychology: Human Perception and Performance, 2006: 32(5), 1155-1168. PMID: 17002528.
38. Colibazzi, T, Zhu, H, Bansal, R., **Schultz, R.T.**, Peterson, B.S. The latent volumetric structure of the normal human brain: Exploratory factor analysis and structural equation modeling of gray matter volumes in children and adults. Human Brain Mapping, 2008: 29 (11), 1302-12. PMID: 17935179. PMCID: PMC2656433.

39. Jackowski, A.P., Douglas-Palumberi, H., Jackowski, M. Win, L. **Schultz, R.T.**, Staib, L.H., Krystal, J.H., Kaufman, J. Corpus callosum in maltreated children with PTSD: A diffusion tensor imaging study. Psychiatry Research: Neuroimaging, 2008: 162(3), 256-261. PMID: 18296031.
40. Goldstein, G., Allen, D. N., Minshew, N. J., Williams, D. L., Volkmar, F., Klin, A., & **Schultz, R.T.** The structure of intelligence in children and adults with high functioning autism. Neuropsychology, 2008: 22(3), 301-312. PMID: 18444708. PMCID: PMC3093048.
41. Mongillo, E.A., Irwin, J., Whalen, D., Klaiman, C, Carter, A.S. & **Schultz, R.T.** Audiovisual processing in children with and without autism spectrum disorders. Journal of Autism and Developmental Disorders, 2008: 38(7), 1349-1358. PMID: 18307027.
42. Vanderwal, T., Hunyadi, E., Grupe, D.W., Connors, C.M., & **Schultz, R.T.** Self, mother and abstract other: An fMRI study of reflective social processing. Neuroimage, 2008:41(4), 1437-1446. PMID: 18486489. PMCID: PMC2559963.
43. Dimitropoulos, A. & **Schultz, R.T.** Food-related neural circuitry in Prader-Willi Syndrome: Response to high- vs. low-calorie Foods. Journal of Autism and Developmental Disorders, 2008: 38(9), 1642-1653. PMID: 18311513.
44. Bathula, D.R., Tagare, H.D. Staib, L.H. Papademetris, X., **Schultz, R.T.**, & Duncan, J.S. Bayesian analysis of fMRI Data with ICA based spatial prior. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, 2008:11 (Pt 2): 246-254. PMID: 18982612. PMCID: PMC2864117.
45. Awate, S.P., Win, L., Yushkevich, P., & **Schultz, R.T.** & Gee, J. 3D cerebral cortical morphometry in autism: Increased folding in children and adolescents in frontal, parietal, and temporal lobes. Medical Image Computing and Computer-Assisted Intervention: Lecture Notes in Computer Science, 2008: 11 (Pt 1), 559-567. PMID: 18979791.
46. Wolf, J.M., Tanaka, J.W., Klaiman, C., Cockburn, J., Herlihy, L., Brown, C, South, M., McPartland, J., Kaiser, M.D., Phillips, R., & **Schultz, R.T.** Specific impairment of face processing abilities in children with autism spectrum disorder using the *Let's Face It!* skills battery. Autism Research, 2008: 1(6), 329-340. PMID: 19360688.
47. Cockburn, J., Bartlett, M., Tanaka, J., Movellan, J., Pierce, M. & **Schultz, R.** (2008). SmileMaze: A tutoring system in real-time facial expression perception and production in children with Autism Spectrum Disorder. Proceedings from the IEEE International Conference on Automatic Face & Gesture Recognition, 978-986.
48. Robins, D.L., Hunyadi, E. & **Schultz, R.T.** Superior temporal activation in response to dynamic audio-visual emotional cues. Brain and Cognition, 2009: 69(2), 269-78. PMID: 18809234. PMCID: PMC2677198.
49. Gauthier, I., Klaiman, C. & **Schultz, R.T.** Face composite effects reveal abnormal face processing in Autism. Vision Research, 2009: 49(4), 470-8. PMID: 19135077. PMCID: PMC2674961.
50. Dimitropoulos, A, Ho, A, Klaiman, C, Koenig, K.A. & **Schultz, R.T.** Comparison of behavior and emotional characteristics in children with Autism, Prader-Willi Syndrome, and Williams Syndrome. Journal of Mental Health Research in Intellectual Disabilities, 2009: 2, 220-243.
51. Wang, K., Zhang, H., Ma, D., Bucan, M., Glessner, J.T., Abrahams, B., Salyakina, D., Imielinski, M., Bradfield, J.P., Sleiman, P., Kim, C, Hou, C., Chiavacci, R., Takahashi, N., Sakurai, T., Rappaport, E., Lajonchere, C., Munson, J., Estes, A., Korvatska, O., Piven, J., Sonnenblick, L.I., Alvarez Retuerto, A.I., 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.E., **Schultz, R.T.**, Nurnberger Jr., J.I., Haines, J.L., Sutcliffe, J.S., Cook, E. H., Minshew, N.J., Buxbaum, J.D., Dawson, G., Grant, S, Geschwind, D.H., Pericak-Vance, M., Schellenberg, G.D., & Hakonarson, H. Common genetic variants on 5p14.1 associate with autism spectrum disorders. Nature, 2009: 459(7246), 528-33. PMID: 19404256. PMCID: PMC2943511.



52. Glessner, J.T., Wang, K., Cai, G., Korvatska, O., Kim, C.E., Wood, S., Zhang, H., Estes, A., Brune, C.W., Bradfield, J.P., Imielinski, M., Frackelton, E.C., Reichert, J. Crawford, E.L., 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.M., Bernier, R., Levy, S.E., **Schultz, R.T.**, Dawson, G., Owley, T., McMahon, W.M., Wassink, T.H., Sweeney, J.A., Nurnberger Jr, J.I., Coon, H., Sutcliffe, J.S., Minshew, N.J., Grant, S.F.F., Bucan, M., Cook Jr, E.H., Buxbaum, J.D., Devlin, B., Schellenberg, G.D., & Hakonarson, H., Autism genome-wide copy number variation reveals ubiquitin and neuronal genes. Nature, 2009:459(7246), 569-73. PMID: 19404257. PMCID: PMC2925224.
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Contributions to peer-reviewed research publications, participation cited but not by authorship:

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2. Kim, S.H., Fonov, V., Dietrich, C., Vachet, C., Hazlett, H.C., Smith, R.G., Graves, M., Piven, J., Gilmore, J.H., Collins, D.L., the IBIS Network (**Schultz, R.T.**, Principal Investigator, Children's Hospital of Philadelphia Network Center), Gerig, G., & Styner, M. Adaptive prior probability and spatial temporal intensity change estimation for segmentation of the one-year-old human brain. Journal of Neuroscience Methods, 2013, 212(1), 43-55. PMID: 23032117.
3. Elison, J.T., Wolff, J., Heimer, D., Paterson, S., Gu, H., Hazlett, H., Styner, M., Gerig, G., Piven, J. and the IBIS Network (**Schultz, R.T.**, Principal Investigator, Children's Hospital of Philadelphia Network Center). Frontolimbic neural circuitry at 6 months predicts individual differences in joint attention at 9 months. Developmental Science, 2013, 16(2), 186-197. PMID: 23432829. PMCID: PMC3582040.
4. Elison, J.T., Wolff, J.J., Reznick, J.S., Botteron, K.N., Estes, A.M., Gu, H., Hazlett, H.C., Meadows, A.J., Paterson, S.J., Zwaigenbaum, L., & Piven, J.; **Infant Brain Imaging Study (IBIS) Network**. Repetitive behavior in 12-month-olds later classified with autism spectrum disorder. Journal of the American Academy of Child & Adolescent Psychiatry, 2014 Nov, 53(11), 1216-1224. doi: 10.1016/j.jaac.2014.08.004. PMID: 25440311.
5. 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.; IBIS Network. IBIS Network (Schultz, R.T., Principal Investigator, The Children's Hospital of Philadelphia Network Center). Splenium development and early spoken language in human infants. Developmental Science. 2017 Mar; 20(2). PMID: 26490257
6. Wink, L.K., Pedapati E.V., Adams, R., Erickson C.A., Pedersen, K.A., Morrow, E.M, Kaplan, D., Siegel, M., and Autism and Developmental Disorders Inpatient Research Collaborative (ADDIRC). (Schultz, R.T., Collaborator). Characterization of medication use in a multicenter sample of pediatric inpatients with autism spectrum disorder. Journal of Autism Developmental Disorders. 2017 May 17. doi: 10.1007/s10803-017-3153-x. [Epub ahead of print]
7. Handen, B.L., Mazefsky, C.A., Gabriels, R.L., Pedersen, K.A., Wallace, M., Siegel, M.; Autism and Developmental Disorders Inpatient Research Collaborative (ADDIRC) (Schultz, R.T., Collaborator). Risk Factors for Self-injurious Behavior in an Inpatient Psychiatric Sample of Children with Autism Spectrum Disorder: A Naturalistic Observation Study. Journal of Autism Developmental Disorders. 2018 Jan 24. doi: 10.1007/s10803-017-3460-2. [Epub ahead of print].
8. Swanson, M.R., Wolff, J.J., Shen, M.D., Styner, M., Estes, A., Gerig, G., McKinstry, R.C., Botteron, K.N., Piven, J., Hazlett, H.C.; **Infant Brain Imaging Study (IBIS) Network**. Development of White Matter Circuitry in Infants with Fragile X Syndrome. JAMA Psychiatry, 2018 May 1, 75(5), 505-513. doi: 10.1001/jamapsychiatry.2018.0180. PMID: 29617515.

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1. Olivia J Veatch, Diego R Mazzotti, James S Sutcliffe, Robert T Schultz, Ted Abel, Birkan Tunc, Susan G Assouline, Edward S Brodtkin, Jacob J Michaelson, Thomas Nickl-Jockschat, Zachary E Warren, Beth A Malow, Allan I Pack. Calculating the Effects of Autism Risk Gene Variants on Dysfunction of Biological Processes Identifies Clinically-Useful Information... . doi: <https://doi.org/10.1101/449819>. Posted October 22, 2018

#### Editorials, Reviews, Chapters, including participation in committee reports:

1. Willerman, L., **Schultz, R.**, Rutledge, N., & Bigler, E. Brain structure and cognitive function. In C. Reynolds (Ed.) Cognitive Assessment: An Interdisciplinary Approach. New York: Plenum Press. 1994, 35-55.
2. Willerman, L. & **Schultz, R.T.** Comments on "Brain size and cerebral glucose metabolism in non-specific mental retardation and Downs syndrome." Intelligence, 1995: 20, 211-216.

3. **Schultz, R.T.** & Chakraborty, A. Magnetic resonance image analysis. In E. Bigler (Ed.), Handbook of Human Brain Function: Neuroimaging. New York: Plenum Press, 1996, 9-51.
4. Carter, A.S., Fredine, N.J., **Schultz, R.T.**, Scahill, L., Findley, D., & Sparrow, S.S. Comprehensive psychological and educational assessments. In J.F. Leckman & D.J. Cohen (Eds). Tourette's Syndrome-Tics, Obsessions, Compulsions: Developmental Psychopathology and Clinical Care. New York: John Wiley & Sons, 1998, 325-337.
5. Loehlin, J.C., Horn, J.M., **Schultz, R.T.**, Raz, N. & Bailey, J.M. (1998). Lee Willerman (1939-1997). Intelligence, 24: 329-335.
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8. Volkmar, F. Klin, A., **Schultz, R.**, & Cohen, D.J. The 'nonautistic' pervasive developmental disorders. In C.E. Coffey, & R.A. Brumback (Eds.), Textbook of Pediatric Neuropsychiatry. Washington, DC: American Psychiatric Press, 1998, 429-447.
9. Walkup, J.T., Khan, S., Schuerholz, L, Paik, Y.S., Leckman, J.F. & **Schultz, R.T.** Phenomenology and natural history of tic-related ADHD and learning disabilities. In J.F. Leckman & D.J. Cohen (Eds). Tourette's Syndrome-Tics, Obsessions, Compulsions: Developmental Psychopathology and Clinical Care. New York: John Wiley & Sons, 1998, 63-79.
10. Klin A., **Schultz R.T.**, Cohen D.J. The need for a theory of Theory of Mind in action: Developmental and neurofunctional perspectives on social cognition. In S. Baron-Cohen, H. Tager-Flusberg, and D. Cohen (Eds.), Understanding Other Minds, 2<sup>nd</sup> Edition. Oxford, England UK: Oxford University Press, 1999, 362-393.
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14. **Schultz, R.T.** The Neural Basis of Autism. In NJ Smelser & PB Baltes (Eds) International Encyclopedia of the Social & Behavioral Sciences. NewYork: Elsevier Science. 2001, 983-987.
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17. Pediatric Neuroimaging Group (**Schultz, R.T.**, Rosenberg, D, Pugh, K, Pine, D, Peterson, B, Kaufman, J, Kates, W, Jacobsen, L, Giedd, J, Castellanos, X & Anderson, A). Pediatric Neuroimaging. In M. Lewis (Ed) Child and adolescent psychiatry: Comprehensive textbook (2<sup>nd</sup> edition). Baltimore: Williams & Wilkins Co. 2002, 132-154.

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21. **Schultz, R.T.**, & Anderson, G. Neurobiology of Autism and Pervasive Developmental Disorders. In D.S. Charney & E.J. Nestler, The Neurobiology of Mental Illness (2<sup>nd</sup> edition), Oxford University Press, 2003: 954-967.
22. **Schultz, R.T.**, Grelotti, D.J., Klin, A., Kleinman, J., Van der Gaag, C., Marois, R. & Skudlarski, P. The role of the fusiform face area in social cognition: Implications for the pathobiology of autism. In U. Frith and E.L. Hill, Autism, Mind and Brain. Oxford, UK: Oxford University Press, 2003: 267-293. PMID: 12639338 PMCID: PMC1693125 DOI: 10.1098/rstb.2002.120
23. Volkmar, F.R., Klin, A., **Schultz, R.** Chawarska, K., Jones, W. The Social Brain in Autism. In M. Brune, H. Ribbert, & Wulf Schienfenhovel (Eds.). The Social Brain: Evolution and Pathology. New York: John Wiley and Sons, 2003, 167-195.
24. Klin, A, Jones, W., **Schultz, R.**, Volkmar, F., & Cohen, D.J. Autism, Movement, and Facial Processing - Dr. Klin and colleagues reply. American Journal of Psychiatry, 2004: 161 (9), 1719-1720.
25. Volkmar, F.R., Klin, A., & **Schultz, R.** Pervasive Developmental Disorders. In B.J. Sadock & V.S. Sadock (Eds). Comprehensive Textbook of Psychiatry, 8th edition, Baltimore: Williams and Wilkins, 2005, 3164-3182.
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28. **Schultz, R.T.**, Chawarska, K. & Volkmar, F.R. The Social Brain in Autism: Perspectives from Neuropsychology and Neuroimaging. In S.O. Moldin & J.L.R. Rubenstein (Eds.). Understanding Autism: From Basic Neuroscience to Treatment. Boca Raton, FL: CRC Press, 2006: 323-348.
29. Volkmar, F.R., Lord, C, Klin, A., **Schultz, R.**, Cook, E. Martin and F.R Volkmar (Eds.) Lewis's Child and Adolescent Psychiatry: A Comprehensive Textbook (4<sup>th</sup> Edition), 2007, 384-400.
30. South, M., Ozonoff, S., & **Schultz, R.T.** Neurocognitive Development in Autism. In C. A. Nelson & M. Luciana (Eds.), Handbook of Developmental Cognitive Neuroscience - 2nd Edition. Cambridge, MA: MIT Press: 2008: 701-716.
31. Bailey, A., Sutcliffe, J, **Schultz, R.** & Rogers, S. Our vision for *Autism Research*. Autism Research, 1, 2008, 71-72
32. **Schultz, R.T.** Neuroimaging research in Autism: The next decade. Autism Research, 1, 2008:317-319.
33. Volkmar, F.R., Klin, A., & **Schultz, R.** Autism and the pervasive developmental disorders. In MG Gelder JJ Lopez-Ibor & N Andreasen (Eds.) New Oxford Textbook of Psychiatry, Oxford University Press. 2009
34. Curby, K , Willenbockel, V., Tanaka, J., & **Schultz, R.T.** Face processing in the autism: Insights from the perceptual expertise network. In I. Gauthier, D Bub, MJ. Tarr & (Eds.) Perceptual Expertise, Modularity and Brain Organization, Oxford University Press. 2009
35. Volkmar, F.R., Klin, A., **Schultz, R.** & State, M. Pervasive Developmental Disorders. In B.J. Sadock, V.A.S. Sadock & P Ruiz (Eds). Comprehensive Textbook of Psychiatry, 9th edition, Baltimore: Williams and Wilkins, 2009, 3540-3559.

36. Herrington, J & **Schultz, R.T.** Autism: Review of neuroimaging findings. In B. Turetsky & M. Shenton (Eds.), Neuroimaging in Neuropsychiatric Disorders, Cambridge University Press. 2011
37. South, M., Ozonoff, S., & **Schultz, R.T.** Social Cognition and autism. In D. Fein (Ed.), The Neuropsychology of Autism, Oxford Press. 2011
38. Volkmar, F.R., Klin, A., **Schultz, R.** & State, M. Autism Disorders. In B.J. Sadock, V.A.S. Sadock & P Ruiz (Eds). Comprehensive Textbook of Psychiatry, 10th edition, Baltimore: Williams and Wilkins, 2017.

Lecture by Invitation (past 10 years)

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|-------------------|---|
| March 28, 2008    | “The social brain in autism.” Keynote address to the 6 <sup>th</sup> Annual Autism Collaborative Conference, New York Academy of Medicine, New York, NY   |
| July 16, 2008     | “Face processing and the neural basis of autism.” Invited presentation as part of “The Biology of Social Cognition” workshop, Cold Spring Harbor, NY  |
| Oct. 17, 2008     | “Converging Imaging evidence for the roles of the temporal lobes in the pathobiology of autism spectrum disorders.” 35 <sup>th</sup> Carnegie Symposium on Cognition: Development and Brain Systems in Autism, Carnegie Mellon University, Pittsburgh, PA |
| Nov. 12, 2008     | “The autism spectrum disorders and the social brain.” The Children’s Hospital of Philadelphia, Department of Pediatrics Grand Rounds, Philadelphia, PA  |
| Feb. 13, 2009     | “Brain and Behavior in Autism: Current understanding and future strategies.” Grand Rounds, Department of Pathobiology and Veterinary Science, University of Connecticut, Storrs, CT   |
| March 3, 2009     | “Brain and Behavior in Autism: Current Understanding and Future Strategies.” Grand Rounds, Yale University Child Study Center, New Haven, CT  |
| March 10, 2009    | “Converging Evidence for the role of the temporal lobe in autism.” MRDDRC Grand Rounds, The Children’s Hospital of Philadelphia, Philadelphia, PA   |
| March 19, 2009    | “The Social Brain and Autism.” Ninth National Autism Congress, Rotterdam, Netherlands   |
| April 17, 2009    | “Converging evidence for Frontal and Temporal Lobe Mechanisms in Autism.” The Joseph R. Stokes Scientific Symposium, The Children’s Hospital, Philadelphia, PA  |
| April 17, 2009    | “The role of MRI in understanding autism: from mechanisms to treatment response.” Maternal and Child Health Bureau Behavioral Pediatrics Conference, Department of Pediatrics, The Children’s Hospital of Philadelphia, Philadelphia, PA                  |
| April 21, 2009    | “The Social Brain in Autism.” The Thomas E. Potter Distinguished Lecture, Department of Pediatrics, St. Joseph’s Children’s Hospital, Paterson, NJ  |
| October, 22, 2009 | “Autism and the Social Brain.” Keynote to the 4 <sup>th</sup> Annual Winter School of the International Research and Training group in Schizophrenia and Autism, Philadelphia, PA   |
| Nov. 5, 2009      | “The Next Decade of Autism Research: Genes, Brain, & Behavior.” Grand Rounds, Department of Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA   |
| Nov. 11, 2009     | “The Social Brain and Autism.” Grand Rounds, Seaver Center for Autism Research, Mt Sinai School of Medicine, New York, NY.  |
| Feb. 26, 2010     | “Is fMRI helping illuminate the nature of autism spectrum disorders?” Hastings Institute and the Center for Neuroscience and Society at the University of Pennsylvania, Philadelphia, PA  |

- March 10, 2010 "Social Difficulties in the Autism Spectrum Disorders: A Research Progress Report on Brain, Behavior and Genetic Foundations." University of Florida and Wolfson Children's Hospital, Jacksonville, FL
- April 21, 2010 "Understanding social deficits in Autism Spectrum Disorders: Converging evidence from genes, brain and behavior." Grand Rounds, Department of Brain and Cognitive Science, Massachusetts Institute of Technology, Cambridge, MA
- May 21, 2010 "Dimensional Approaches to Diagnosis. Invited lecture to the Autism Speaks International Epidemiology Network meeting on "Meeting the global challenge of screening and diagnosis of ASD", Philadelphia, Pa.
- July 16, 2010 "The neural bases of autism." Invited presentation as part of "The Biology of Social Cognition" workshop, Cold Spring Harbor, NY
- Sept 23, 2010 "Neurofunctional models of autism: toward understanding relationships between genes, brain and social behavior." Department of Neuroscience Grand Rounds, George Washington University and Children's National Medical Center, Washington, DC
- Dec 8, 2010 "Converging Evidence for Structural and Functional Brain Abnormalities in the Autism Spectrum Disorders." Invited symposium speaker, annual meeting of the American College of Neuropsychopharmacology, Miami, FL
- Jan 11, 2011 "Neuroimaging as a treatment outcome measure." Invited speaker to the Pfizer/Autism Speaks workshop ("Outcome Measures for Clinical Trials with Individuals with ASD: Challenges and Opportunities"), Washington, DC.
- Jan 27, 2011 "Understanding the neural bases of the social difficulties in autism." Keynote speaker at the Center for Autism and Related Disabilities at the University at Albany Annual Research Symposium. Albany, NY
- Feb 10, 2011 "Understanding the neural bases of the social difficulties in autism." Grand Rounds, Department of Pediatrics, UMDNJ-Robert Wood Johnson Medical School. New Brunswick, NJ
- April 26, 2011 "Neuroimaging approaches to biomarker development for autism research." Invited speaker at the "Autism Spectrum Disorders: From Genes to Targets to Treatments" symposium, New York Academy of Sciences, New York, NY
- May 25, 2011 "Models of Brain and Social Development in Autism." Invited Lecture, 2<sup>nd</sup> Symposium in Molecular Medicine, Federal University of Minas Gerais, Belo Horizonte, Brazil
- June 7, 2011 "Autism Biomarkers and the Social Brain." Invited Lecture, Neuroscience Seminar Series, Thomas Jefferson University, Philadelphia, PA
- August 20, 2011 "The social motivation hypothesis of autism." Invited presentation, Wellcome Trust School on the Biology of Social Cognition, Cambridge, England
- Sept. 15, 2011 "Understanding the Social Deficits in Autism." Grand Rounds, Department of Neuroscience, Bucknell University, Lewisburg, PA
- Nov. 9, 2011 "The social phenotype in ASD." Invited Presentation, *Cell* sponsored symposium: "Autism Spectrum Disorders: From Mechanisms to Therapies", November 9-11, Arlington, VA.
- Nov. 18, 2011 "Social disability and brain functioning in the Autism Spectrum Disorders." Grand Rounds, Regional Hospital of Scranton, Scranton, PA
- June 14, 2012 "Neuroimaging biomarkers and social endophenotypes in autism." Centre for Brain and Behaviour at The Hospital for Sick Children, Toronto, Canada
- July 11, 2012 "Autism and the Social Brain." Invited presentation as part of "The Biology of Social Cognition" workshop, Cold Spring Harbor, NY



- Sept 13, 2012 "Understanding the social phenotype in autism: brain and behavior", Grand Rounds, Department of Pediatrics, Children's Hospital of Pittsburgh. Pittsburgh, PA
- Feb 28, 2013 "Neural bases of social disabilities". Grand Rounds Crozer-Chester Medical Center, Chester, PA
- April 24, 2013 "Progress in understanding the social brain in autism spectrum disorders". Invited Keynote speaker, Geisinger Health Center's Autism Center grand opening, Lewisberg, PA
- May 31, 2013 "Progress in understanding the social brain in autism spectrum disorders". Invited speaker, CHOP mid Atlantic Neurodevelopmental Disability Symposium, Philadelphia, PA
- June 14, 2013 "The Social Brain and Echos in Social Behavior ". Grand Rounds, Department of Pediatrics, Emory University, Atlanta, GA
- Oct 25, 2013 "Understanding Social Functioning in ASD: Brain and Behavior". Keynote address at the 12<sup>th</sup> Annual Autism Conference Kennedy Krieger/Johns Hopkins University Baltimore, MD
- Dec 6, 2013 "Autism heterogeneity: The need for prospective big data collection". Presentation at for the "Big Data: An Opportunity?" symposium at the Nancy Lurie Marks Foundation, Wellesley, MA
- March 5, 2014 "Understanding Social Functioning in ASD: Implications for Treatment". Invited Workshop, Foundations Community Partnership, Doylestown, PA
- April 23, 2014 "Causal Mechanisms: What do we know and what is the research agenda going forward?" Invited talk, as part of the *Global Café Dialogue: Autism Virtual Symposium*. Internet based, broadcast worldwide.
- April 29, 2014 "Autism Research: The search for mechanisms", Ground Rounds/17th Annual Sidney Q Cohan Lecture, Department of Pediatrics, NYU, New York, NY.
- June 12, 2014 "Remote phenotyping for Big Data: What's on the horizon?" Invited lecture, Simons Foundation, New York, NY
- July 24, 2014 "Autism as a social disability." Invited lecture, Gordon Conference (Neurobiology of Cognition), Sunday River, Maine.
- August 19, 2014 "Remote phenotyping for Big Data: Our experience." Invited presentation, Autism and Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA
- October 7, 2014 "Measuring the Impact of Autism on Cognitive Abilities" Invited lecture, Simons Foundation, New York, NY.
- October 22, 2014 Discussant, 2014 Neurobiology of Disease in Children Symposium: Autism. 43<sup>rd</sup> Annual Child Neurology Meeting, Columbus, Ohio.
- Nov. 16, 2014 "Neuroimaging of the Social brain: What have We Learned and What is on the horizon?" Eighteenth Annual Advances in Autism Conference, Seaver Autism Center for Research and Treatment, Mt. Sinai University
- March 27, 2015 "Brain structure and function: an integration of current facts and opinions." Invited lecture National Autism Congress, De Doelen Congress Centre, Rotterdam, Netherlands.
- April 3, 2015 "Neuroimaging of the social brain: What have we learned and what is on the horizon?" UCLA CART Autism Affinity Group Distinguished Lecture, Los Angeles, CA.
- April 12, 2015 "Autism: State of the Science". Temple University, Philadelphia, PA
- May 29, 2015 "Progress in Understanding the Brain in Autism", The 57th Annual meeting of Japan Society of Child Neurology, Osaka Japan
- February 4, 2016 "The Contributions of Neuroimaging to Understanding Autism". Invited lecture, International Neuropsychological Society, Boston, MA
- March 31, 2016 "In the beginning: What can neuroimaging reveal about early brain development in autism?" University of Pennsylvania, Department of Neuroscience Public Lecture series.
- April 7, 2016 "Neurobiology of Autism". Bucknell University, Lewisberg, PA

- January 26, 2017 “Quantitative Behavioral Phenotyping: Importance & Opportunities for Better Tools.” Autism Biomarker Consortium for Clinical Trials (ABC-CT), UCLA, CA.
- March 28, 2017 “Digitizing human behavior: Prediction of Autism Diagnosis & Beyond.” Invited Talk, “Biometrics & Beyond Workshop”, NIH, Rockville, MD
- March 30, 2017 “New Technologies to Improve Autism Diagnosis.” Invited talk, Autism Science Foundation Day of Learning, New York City, NY
- April 26, 2017 “New Technologies to Diagnosis, Characterize, Monitor and Discover the Essence of Autism.” Invited talk, NIH Interagency Autism Coordinating Committee, Bethesda, MD
- Dec. 1, 2017 “Understanding Autism from Brain and Behavioral Development in the First Years of Life.”, Faculty Luncheon Lecture Series, Children’s Hospital of Philadelphia, Philadelphia, PA
- Feb 23, 2018 “Digital Phenotyping for Scalable ASD Assessment”. Simons Foundation, NY, NY
- March 23, 2018 “Dyadic Social Motor Coordination Deficits in Autism”. Grand Rounds, Department of Psychology, University of Miami
- April 11, 2018 “Digital phenotyping: A new era for autism research”. Grand Rounds, Dept. of Child & Adolescent Psychiatry, NYU, New York, NY
- June 6, 2018 Keynote Address: “The National Research Agenda for Autism Spectrum Disorder: What have Learned and Where are We Headed”. PA Dept. of Health & Human Services’s 11<sup>th</sup> Annual Autism Training Conference (PACT), Lancaster, PA
- October 21, 2018 Keynote Address, Penn Autism Spectrum Program of Excellence Inaugural Symposium: “Advances in Biomarkers for Autism: Digital Phenotyping & Developmental Brain Imaging”. University of Pennsylvania, Philadelphia, PA
- January 30 2019 “Biomarkers and Outcome Measures for Autism Spectrum Disorders.” Vanderbilt Kennedy Center and the Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN
- March 13, 2019 “Biomarkers and Outcome Measures for Autism Spectrum Disorders”. Huck Institutes of the Life Sciences, Penn State University, University Park, PA

#### Abstracts (last 6 years)

1. Suh, J., Eigsti, I.M., Barton, M., Tyson, K., Rosenthal, M., Troyb, E., Helt, M., Orinstein, A., **Schultz, R.T.**, Stevens, M., Kelley, E.A., Naigles, L., and Fein, D. (2012, February) *Evaluation of Language and Pragmatic Abilities in Optimal Outcome Children with a History of Autism Spectrum Disorders through the Use of Narratives*. Presented at the International Neuropsychological Society, Montreal, Quebec, Canada.
2. Erdem, V., Bilwaj, G., Guray, E., **Schultz, R.T.**, & Davatzikos, C. (2012, May). *Feature Ranking Based Nested Support Vector Machine Ensemble for Medical Image Classification*. Presented at the 2012 IEEE International Symposium on Biomedical Imaging, Barcelona, Spain.
3. Le, L., Parish-Morris, J., Sasson, N., & **Schultz, R.T.** (2012, May). *Theory of Mind in Children with Autism Spectrum Disorder: A “Non-Verbal” Task Highlights the Importance of Language*. Presented at the International Meeting for Autism Research, Toronto, Canada.
4. Tonge, N., Chevallier, C., Parish-Morris, J., Letzen, J., & **Schultz, R.T.** (2012, May). *Social motivation is correlated with face processing skills in children with ASD*. Presented at the International Meeting for Autism Research, Toronto, Canada.
5. Pandey, J., Parish-Morris, J., Hirsh-Pasek, K., Golinkoff, R.M., Pulverman, R., **Schultz, R.T.**, & Paterson, S. (2012, May). *ADOS Severity Scores Predict Performance on a Classic Measure of Intentional Understanding in Preschoolers on the Spectrum*. Presented at the International Meeting for Autism Research, Toronto, Canada.

6. McDermott, M.H., Kang, H.W., Parish-Morris, J., Chevallier, C., Bush, J.C., & **Schultz, R.T.** (2012, May). *Eye-tracking Established as a Reliable Test-Retest Measure in Adolescents with ASD: Visual Attention to Social and Non-social Stimuli*. Presented at the International Meeting for Autism Research, Toronto, Canada.
7. Bush, J.C., Chevallier, C., Rump, K.M., Parish-Morris, J., & **Schultz, R.T.** (2012, May). *Face Processing and its Correlation to Theory of Mind in Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, Toronto, Canada.
8. Yerys, B.E., Abrams, D.N., Gordon, E.M., Weinblatt, R., Jankowski, K.F., Strang, J., Kenworthy, L., **Schultz, R.T.**, Vaidya, C.J., & Gaillard, W.D. (2012, May). *Increased functional connectivity in children with autism spectrum disorders while at rest: Evidence consistent with poor network segregation*. Presented at the International Meeting for Autism Research, Toronto, Canada.
9. Bradstreet, L. E., Eavani, H., Berry, L., Giserman, I., **Schultz, R.T.**, & Herrington, J. D. (2012, May). *Associations between white matter integrity and anxiety symptoms in children with autism spectrum disorders*. Presented at the International Meeting for Autism Research, Toronto, Canada.
10. Mosner, M.G., Bradstreet, L. E., Guy, L., Schaaf, R. C., **Schultz, R.T.**, & Souders, M. (2012, May). *Correlations between Sensory Processing Symptoms and Sleep Disturbances among Children with Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, Toronto, Canada.
11. Perino, M.T., Troiani, V., Price, E., Taylor, J.M., Cayless, S. J., Madva, E., Faja, S. Herrington, J. **Schultz, R.T.**, & Kohls, G. (2012, May). *Dynamic Stimuli in a Social Incentive Delay Task: Examining the Need for More Ecologically Valid Stimulus Sets in ASD Reward Research*. Presented at the International Meeting for Autism Research, Toronto, Canada.
12. Troiani, V., Price, E., & **Schultz, R.T.** (2012, May). *Processing of Image Categories Prior to Awareness in Children with Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Toronto, Canada.
13. Troiani, V., Browne, A. & **Schultz, R.T.** (2012, May). *Optimal Face Network Localization in Autism: A Comparison of Two Methodologies*. Presented at the International Meeting for Autism Research, Toronto, Canada.
14. Hsin, O., Souders, M., **Schultz, R.**, & Epstein, S. (2012, May). *The relation between poor sleep and executive functioning in children with autism spectrum disorders*. Presented at the International Meeting for Autism Research, Toronto, Canada.
15. Bloy, L., Smith, A., Ingallhalikar, M, **Schultz, R.**, Robert T., and Verma, R. (2012, May). *Towards Assessing Spatial Normalizations Employing DTI and HARDI Models*. Presented at the 20<sup>th</sup> Annual Meeting of ISMRM, Melbourne, Australia.
16. Bloy, L., Ingallhalikar, M., **Schultz, R.**, Roberts, T. & Verma, R. (2012, May). *Neural White Matter Atlas Creation Using Diffusion Imaging*. Presented at the 20<sup>th</sup> Annual Meeting ISMRM, Melbourne, Australia.
17. Browne, A., Troiani, V., Herrington, J., & **Schultz, R.T.** (2012, October). *One-step automated functional region of interest (fROI) analysis program for FSL*. Poster presented at the Society for Neuroscience, New Orleans, LA.
18. Kohls, G., Perino, M.T., Troiani, V., Herrington, J.D., & **Schultz, R.T.** (2012, October). *Seeking social reward and avoiding social punishment activate the human nucleus accumbens*. Poster presented at the Society for Neuroscience, New Orleans, LA.
19. Kreibich, A.S., Picolli C., Liu Y., Wong M., Dow H.C., Hirano S., Takeichi M., **Schultz R.T.**, Abel, T., Brodtkin, E.S. (2012, October). *Juvenile protocadherin-10 haploinsufficient mice as a model of reduced sociability, an autism-relevant phenotype*. Presented at the Nanosymposium Session 518, Autism: Genetic and Animal Models III at the Society for Neuroscience Meeting, New Orleans, LA.
20. Vanessa Troiani, V., Browne, A., & **Schultz, R.T.** (2012, October). *Development of place- and face-selective cortex extends through adolescence*. Poster presented at the Society for Neuroscience, New

- Orleans, LA.
21. Troiani, T., & **Schultz, R.** (2013, April). *Amygdala guides bottom-up attention in typical development but not in autism*. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
  22. Bartley, G.K., Browne, A.N., Herrington, J.D., & **Schultz, R.T.** (2013, May). *Relationships Between Resting State Neural Connectivity and Individual Differences in ASD Symptoms*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  23. McDermott, M.H., Browne, A.N., Guy, L., Herrington, J.D., & **R. T. Schultz.** (2013, May). *Establishing fMRI Test-Retest Reliability: Implications for fMRI Biomarkers of Treatment Efficacy*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  24. Levy, S.E., Shekdar, K., Browne, A.N., DeLussey, C.M., Qasmieh, S., Prabhakar, P., Roberts, T.P., & **Schultz, R.T.** (2013, May). *Incidental Findings On Neuroimaging for Asymptomatic Children with Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  25. Herrington, J.D., Browne, A.N., DeLussey, C.M., Troiani, V., Bartley, G.K., & **Schultz, R.T.** (2013, May). *Individual Differences in Anxiety Symptoms Predict Amygdala Function in ASD*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  26. Giovannelli, D., Letzen, J.E., **Schultz, R.T.**, & J. D. Herrington. (2013, May). *Abnormal Connectivity in the Social Brain in ASD Identified Via Naturalistic Social Perception and Independent Components Analysis*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  27. Granader, Y., Yerys, B.E., Wallace, G.L., Lawson, R., Rosenthal, M., Wills, M., Dixon, E., Anthony, L.G., Pandey, J., Thompson, R., **Schultz, R.T.**, & Kenworthy, L. (2013, May). *The Factor Structure of the Behavior Rating Inventory of Executive Function in Children and Adolescents with Autism Spectrum Disorders Replicates the Normative Sample*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  28. Souders, M.C., Puleo, C.M., Bennett, A., Berry, L.B., Giserman, I., Eriksen, W.T., **Schultz, R.T.**, & Herrington, J.D. (2013, May). *Potential Link Between Anxiety and Insomnia in Individuals with Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  29. Bush, J.C., Maxwell, C.R., Hsin, O., & **Schultz, R.T.** (2013, May). *BAPQ As a Predictor of Child Functioning in Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  30. Suh, J., Eigsti, I. M., Naigles, L., Barton, M., Orinstein, A., Tyson, K. E., Troyb, E., Rosenthal, M., Helt, M., **Schultz, R. T.**, Stevens, M. C., Kelley, E. A. & Fein, D. A. (2013, May). *Peers' Evaluation of Stories Told by Optimal Outcome Children with a History of Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  31. Eigsti, I. M., Stevens, M. C., **Schultz, R. T.**, Naigles, L., Kelley, E. A., Orinstein, A., Tyson, K. E., Troyb, E., Barton, M., & Fein, D. A. (2013, May). *Neural Activation to Sentences in Individuals with High-Functioning Autism, Typical Development, and Autism Spectrum Disorder Optimal Outcome*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  32. Lewis, P., Moriuchi, C., Klaiman, J., Wolf, L., Herlihy, W., Jones, Klin, A., Tanaka, J.W., & **Schultz, R.T.** (2013, May). *Effects of a Targeted Face-Processing Intervention On Visual Attention to Naturalistic Social Scenes*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  33. Suh, J., Eigsti, I., Naigles, M. L., Barton, M., Orinstein, A., Tyson, K. E., Troyb, E., Rosenthal, M., Helt, M., **Schultz, R. T.**, Stevens, M. C., Kelley, E.A., & Fein, D.A. (2013, May). *Peers' Evaluation of Stories Told by Optimal Outcome Children with a History of Autism Spectrum Disorders*. Presented at the International Meeting for Autism Research, San Sebastian, Spain.
  34. Troiani, V., & **Schultz, R.T.** (2013, May). *Stimulus-driven visual attention engages subcortical visual areas in typical development but not autism*. Presented at the annual meeting of the Visual Science

- Society, Naples, FL.
35. Tonge, N., **Schultz, R.T.**, Troiani, V., Kohls, G., Miller, J., & Chevallier, C. A (2013, June). *Signal Detection Approach to Quantifying Social Motivation in Adults*. Presented at the annual meeting of the American Psychological Science Society, Washington D.C.
  36. Wenger, T.L., Kao, C., Deardorff, M.A., McDonald-McGinn, D., Zackai, E.H., Emanuel, B.S., **Schultz, R.T.**, & Hakonarson, H. (2013, June). *Syndromes and the study of autism*. Presented at the Thirty-Seventh Annual Meeting of the Neurobehavioral Teratology Society, Tucson, AZ.
  37. Wenger, T.L., Kao, C., McDonald-McGinn, D., Zackai, E.H., Bailey, A, **Schultz, R.T.**, Emanuel, B.S., & Hakonarson, H. (2013, August). *The role for MGluR Network Genes in Genetic and Environmental Forms of Syndromic Autism Spectrum Disorders*. Presented at the David W. Smith Workshop on Malformations and Morphogenesis, Mont Tremblant, Quebec, Canada.
  38. Wenger TL, Kao C, McDonald-McGinn DM, Zackai EH, Bailey A, **Schultz RT**, Morrow BS, Emanuel BS, Hakonarson HH. MGluR Gene Network Alterations Confer Risk for Autism Spectrum Disorder in 22q11.2 Deletion Syndrome. Poster Presentation for American Society for Human Genetics, Boston, MA, October 2013
  39. Chevallier, C., Parish-Morris, J., Mcvey, A., Rump, K., Herrington, J., **Schultz, R.T.** (2014, May). *Measuring contextualized social attention using eyetracking: a promising behavioral biomarker of autism spectrum disorders*. Presented at the International Meeting for Autism Research, Atlanta, GA.
  40. Dominguez, A., Naples, R., Tilman, E., Levy, H.S., Reuman, **Schultz. R.T.**, Klin, A., Mayes, L., McPartland, J. (2014, May). *Neurocognitive factors associated with neural specialization for letters in ASD*. Presented at International Meeting for Autism Research, Atlanta, GA.
  41. J Christopher Edgar, Yu-Han Chen, John Herrington, Luke Bloy, Vivian Chow, Judi Pandey, Sue Levy, **Robert T Schultz**, Timothy PL Roberts. (2014, May). *Resting-state Alpha Abnormalities in ASD*. Presented at the 69<sup>th</sup> Annual Meeting of the Society for Biological Psychiatry, New York, NY.
  42. Edgar, J.C., Chen, Y., Herrington, J., Chow, V.Y., Bloy, L., Pandey, J., **Schultz, R.T.**, Roberts, T.P. (2014, May). *Regionally specific resting-state alpha oscillatory abnormalities predict clinical impairment in autism spectrum disorders*. Presented at the International Meeting for Autism Research, Atlanta, GA.
  43. Ghanbari, Y, Bloy, L., Shankar, V., Edgar, C.J., **Schultz, R.T.**, Roberts, T.P., Verma, R. (2014, May). *Analysis of temporal dynamics of brain functional connectivity in autism*. Presented at the International Meeting for Autism Research, Atlanta, GA.
  44. Ginberg, J., Pandey, J., Schultz, R.T., Paterson, S. (2014, May). *Comparison of parent and teacher reports of adaptive functioning of children and adolescents with autism spectrum disorders*. Presented at the International Meeting for Autism Research, Atlanta, GA.
  45. Kerns, C.M., Rosen, T., Herrington, J., Miller, J., **Schultz, R.T.**, Connell, J.E. (2014, May). *The role of hypersensitivity in anxiety and specific phobia in ASD*. Presented at International Meeting for Autism Research, Atlanta, GA.
  46. Lewis, J.D., Evans, A.C., Pruett, J.R., Botteron, K.N., Zwaigenbaum, L., Estes, A.M., Gerig, G., Collins, D.L., Kostopoulous, P., McKinstry, R.C., Dager, S., Paterson, S.J., **Schultz, R.T.**, Sytner, M.A., Hazelett, H.C., Piven, J., IBIS Network. (2014, May). *White-matter network inefficiencies in ASD at 24 months*. Presented at International Meeting for Autism Research, Atlanta, GA.
  47. McVey, A., Guy, L., DeLussey, C.M., Worley, J., Rump, K., Dingfelder, H., Chevallier, C., Kohls, G., **Schultz, R.T.**, Miller, J., Herrington, J. (2014, May). *Anxiety in autism spectrum disorder is associated with abnormal prefrontal cortex activity*. Presented at the International Meeting for Autism Research, Atlanta, GA.
  48. McVey, A.J., **Schultz, R.T.**, Parish-Morris, J., Rump, K., Pandey, J., Chevallier, C. (2014, May). *Studying social attention in autism spectrum disorders: stimulus type matters*. Presented at International Meeting for Autism Research.

49. Parish-Morris, J. Chevallier, C., deMarchena, A., **Schultz, R.T.** (2014, May). *The "face deficit" in visual attention: parsing heterogeneity in ASD.* Presented at International Meeting for Autism Research, Atlanta, GA.
50. Paterson,S.J., Wolff, J.J., Elison, J.T., Marrus, N., Gu. H., Constantino, J.N., Estes, A.M., Hazlett, H.C., Pandey, J., Pruett, J.R., **Schultz, R.T.**, Zwaigenbaum, L. Piven, J. Botteron, K.N., (2014, May). *IBIS Network: Longitudinal trajectories of language development in infants and toddlers with ASD.* Presented at International Meeting for Autism Research, Atlanta, GA.
51. Pruett, J.R., Hoertel, S.K., Kandala, S., Snyder, A.Z, Elison, J.T., Nishino, T., Feczko, E.J., Dosenbach, N.U., Nardos, B., Power, J.D., Adeyemo, B., Botteron, K.N., McKinstry, R.C., Evans, A.C., Hazelett, H.C., Dager, S., Paterson, S.J., **Schultz, R.T.**, Collins, D.L., Fonov, V.S., Sytner, M.A., Gerig, G., Das, S., Kostopoulos, Constantino, J.N., IBIS Network, Petersen, S.E., Schlaggar, B.L., Piven, J. (2014, May). *SVM classifies age but not autism risk using fcMRI data from 6 and 12-month- old infants at low and high genetic risk for autism.* Presented at International Meeting for Autism Research, Atlanta, GA.
52. Rump, K., Worley, J., Mcvey, A.J., Guy, L., Kerns, C.M., Dingfelder, H., Yerys, B.E., Franklin, M., **Schultz, R.T.**, Herrington, J., Miller, J. (2014, May). *Anxiety, distress, and repetitive behaviors, in ASD, anxiety disorder, and typical development.* Presented at International Meeting for Autism Research, Atlanta, GA.
53. Spielman, K., Winder-Pater, B.M., Thomas, S., Pandey, J., **Schultz, R.T.**, Paterson, S., IBIS network. (2014, May). *Good night, sleep tight: the impact of early bedtime behaviors on toddlerhood sleep problems in infants at heightened risk for ASD.* Presented at International Meeting for Autism Research, Atlanta, GA.
54. Thomas, S., Parish-Morris, J., Spielman, K., Cannon, E.N., Woodward, A.L., Pandey, J., **Schultz, R.T.**, Paterson, S. (2014, May). *Goal anticipation in toddlers with ASD and high-risk siblings of children with ASD.* Presented at the International Meeting for Autism Research, Atlanta, GA.
55. Tunc, B., Ghanbari, Y., Smith, A.R., Pandey, J., Browne, A.N., **Schultz, R.T.**, Verma, R. (2014, May). *A novel severity measure for quantitative description of heterogeneity in autism.* Presented at International Meeting for Autism Research, Atlanta, GA.
56. 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.,Kostopoulous, P., Hazelett, H.C., Paterson, S.J., Pandey, J.,Gu, H., Botteron, K.N., Dager, S., McKinstry, R.C., **Schultz, R.T.**, Piven, J. (2014, May). *IBIS Network. : Atypical unfolding of early brain development in autism: a diffusion tensor imaging study of structural connectivity and white matter organization.* Presented at International Meeting for Autism Research, Atlanta, GA.
57. Wolff, J.J., Soda, T., Styner, M.A.m Scotton, J.R., Botteron, K.N., Dager, S., Hazelett, H.C., **Schultz, R.T.**, Piven, J. (2014, May). *IBIS Network: Atypical corpus callosum development associated with autism in infants and toddlers.* Presented at International Meeting for Autism Research, Atlanta, GA.
58. Yerys, B., **Schultz, R.T.**, Amtezana, L.D., Herrington, J. *Cognitive control and negative effect: a dimensional approach to self- regulation in autism and other childhood psychopathologies and developmental disorders.* Presented at International Meeting for Autism Research.
59. Bartley, G.K., Liu, H., Herrington, J., Detre, J., **Schultz, R.T.** (2014, May). *Perfusion differences in Autism Spectrum Disorders as measured by Pseudo-Continuous Arterial Spin Labeling.* Presented at The International Society for Magnetic Resonance in Medicine Conference; Milan, Italy.
60. Wenger TL, Parish-Morris JP, DePolo L, Miller J, Yerys B, **Schultz RT.** (2014, June) Medical History Predicts Phenotype in Autism Spectrum Disorder. Platform presentation at Teratology Society meeting, Bellevue, WA.
61. Luo M, Mulchandani M, Harr M, Wenger TL, Zackai E, **Schultz RT**, Spinner N, Conlin L. (2014, October) CMIP, a Strong Candidate Gene Involved in Autism Spectrum Disorder. Poster presentation at American Society for Human Genetics, San Diego, CA.

62. Liu, H-S, Jawad, A.F., Laney, N., Hooper, S., Radcliffe, J., Moodal, D., Davatzikos, C., **Schultz, R.T.**, Furth, S., Detre, J. (2014, May). *Alterations in Cardiac-Correlated Brain BOLD Signal in Children with Chronic Kidney Disease*. E-Poster presented at the International Society for Magnetic Resonance in Medicine Conference; Milan, Italy.
63. Nahmias, A.S., **Schultz, R.T.**, Ouellette, R., Pandey, J., & Mandell, D.S. (2014, November). *Co-occurring psychiatric symptoms and disorders in two samples of children with autism spectrum disorders*. Presented at the Association for Behavioral and Cognitive Therapies Convention, Philadelphia, PA.
64. Castelluccio, B.C., Stevens, M.C., Eigsti, I.M., **Schultz, R.T.**, Naigles, L., Kelley E., Fein, D. (2015, February). *Characterizing the white matter tract integrity of youth with a history of autism spectrum disorder who have achieved optimal outcome*. Presented at the International Neuropsychological Society Annual Meeting. Denver, CO.
65. Wenger, TL, Miller, J, DePolo, L, de Marchena, A, Emanuel, B, Zackai, EH, McDonald-McGinn, DM, **Schultz, R.T.** (2015, March). *High rate of Autism Spectrum Disorder and need for prospective medical screening in 22q11.2 Duplication Syndrome*. Presented at the American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting, Salt Lake City, Utah.
66. Bartley, G.K., Liu, H.S., Herrington, J.D., Yerys, B.E., Detre, J.A., & **Schultz, R.T.** (2015, May). *Cerebral blood flow biomarkers of autism during a passive viewing task*. In J. McCleery (Chair), *Approaches to examining and identifying neural biomarkers for autism: Progress and challenges*. Symposium conducted at the International Meeting for Autism Research, Salt Lake City, UT.
67. Clements, C.C., Bartley, G.K., DePolo, L., Bateman, L., Morton, H., Parish-Morris, J., Stein, N., & **Schultz, R.T.** (2015, May). *An online verbal IQ test: Development, validity, and standardization of an adaptive vocabulary test for remote phenotyping of parents*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
68. De Polo, L., Parish-Morris, J., McCleery, J., Bateman, L., Thomas, S., Paterson, S.J., Pandey, J., Kostanopoulos, P., Estes, A., Hazlett, H., Botteron, K., Piven, J., **Schultz, R.T.** & the IBIS Network. (2015, May). *Say what?: Toddlers' vocabulary growth trajectories differ by word features*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
69. Eggebrecht, A.T., Elison, J., Feczko, E., Lewis, J., Kandala, S., Todorov, A. Wolff, J.J., Snyder, A.Z., McEvoy, L., Estes, A.M., Zwaigenbaum, L., Botteron, K.N., McKinstry, R.C., Constantino, J.N., Evans, A.C., Hazlett, H.C., Dager, S.R., Paterson, S, **Schultz, R.T.**, Styner, M., Gerig, G., Das, S. Kostopoulos, P., The IBIS Network\*, Schlaggar, B.L., Petersen, S.E., Piven, J. & Pruett, J.R. (2015, May). *Joint attention and brain functional connectivity in infants and toddlers*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
70. Herrington, J.D., Pandey, J., Rump, K., Worley, J., Kerns, C.M., **Schultz, R.T.**, & Miller, J. (2015, May). *Co-occurring anxiety disorders are uniquely associated with decreased amygdala volume in ASD*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
71. Kohls, G., Mosner, M., Antezana, L., **Schultz, R.T.**, & Yerys, B.E. (2015, May). *Neural reward imbalance between social incentives and circumscribed interests in autism spectrum disorder*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
72. Latterner, L., Pandey, J., Wolf, J., Klaiman, C., Herrington, J.D., & **Schultz, R.T.** (2015, May). *Firm evidence for facial identity recognition deficits in ASD using a task with no memory component*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
73. Parish-Morris, J., Yerys, B., Antezana, L., de Marchena, A., Chevallier, C., Sasson, N. & **Schultz, R.T.** (2015, May). *"Scattered attention" in face perception: The case of co-morbid ASD+ADHD*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.
74. Peixoto L., Poplwaski S., Kao C., Hakonarson H., **Schultz R.T.** and Abel T. (2015, May). *Exploring non-coding regulatory SNPs as genetic markers for autism spectrum disorders*. Presented at the International Meeting for Autism Research, Salt Lake City, UT.

75. Anthony, L. G., Kenworthy, L., Wallace, G., Yerys, B. E., Maddox, B. B., White, S. W., Armour, A. C., Miller, J., Herrington, J., **Schultz, R. T.**, Martin, A., and Pugliese, C. E. (2016, May). *Gender Differences on the Newly Proposed ADOS-2, Module 4 Algorithm in ASD without ID: A Multi-Site Study*. Presented at the International Meeting for Autism Research, Baltimore, MD.
76. DePolo L, McDonald-McGinn DM, DeMarchena A, Miller JS, Emanuel BS, Zackai EH, **Schultz RT**, Wenger TL. (2016, April). Community diagnoses of neurodevelopmental and psychiatric issues in children with 22q11.2 Duplication Syndrome. Platform presentation at the Pediatric Academic Society Meeting, Baltimore, MD.
77. Tunc, B., Parker, D., **Schultz, R.T.**, Verma, R. (2016, May). *Autism Spectrum Disorder Is Characterized By Structural Under-Connectivity in Reward Circuitry*. Presented at the International Meeting for Autism Research, Baltimore, MD.
78. Castelluccio, B., Stevens, M. , Eigsti, I. M. , **Schultz, R. T.** , Naigles, L., Kelley, E. A., and Fein, D. A. (2016, May). *White Matter Microstructure in Youth with a History of Autism Spectrum Disorder Who Have Achieved an Optimal Outcome*. Presented at the International Meeting for Autism Research, Baltimore, MD.
79. Eggerbrecht, A.T., McKinnon, C. J., Todorov, A., Wolff, J. J., Elison, J. T., Adams, C. M., Snyder, A. Z., Estes, A. M., Zwaigenbaum, L., Botteron, K., Evans, A. C., Hazlett, H. C., Dager, S., Paterson, S. J., **Schultz, R. T.**, Styner, M., Gerig, G., The IBIS Network, Schlaggar, B. L., Petersen, S. E., Piven, J. and Pruett, J. R. (2016, May). *Restricted Behavior and Brain Functional Connectivity in Infants and Toddlers at Risk for Developing Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Baltimore, MD.
80. Swanson, M. R., Boyd, B., Shen, M. D., Paterson, S. J., Chappell, J. C., Pandey, J., Parish-Morris, J., Emerson, R., Estes, A. M., Hazlett, H. C., Botteron, K., **Schultz, R. T.**, Dager, S., Piven, J. and .. The IBIS Network. (2016, May). *The Early Language Environment and 9 Month "Hyper-Vocalizing" in Infants at Risk for Autism*. Presented at the International Meeting for Autism Research, Baltimore, MD.
81. Zoltowski, A., Clements, C. C., Bateman, L. , Stein, N. and **Schultz, R. T.** (2016, May). *Online Remote Verbal IQ Testing for Large-Scale Autism Studies and the Issue of Cheating*. Presented at the International Meeting for Autism Research, Baltimore, MD.
82. Dimian, A., Wolff, J. J., Elison, J. T. , **Schultz, R. T.**, Zwaigenbaum, L., Piven, J. and .. The IBIS Network. (2016, May). *Risk Factors for Self-Injurious Behavior Among Infants at-Risk for Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Baltimore, MD.
83. Herrington, J., McVey, A., Bush, J. C., Rump, K., Worley, J., Guy, L. R., Pandey, J. , Miller, J. and **Schultz, R. T.** (2016, May). *The Neurobiology of Emotion Regulation Problems and Co-Occurring Anxiety in ASD*. Presented at the International Meeting for Autism Research, Baltimore, MD.
84. Pallathra, A., Perez, L. , Lee, A. , **Schultz, R. T.**, Brodtkin, E. S. and Parish-Morris, J. (2016, May). *Pay Attention during the Important Part: Adults with ASD Increase Their Gaze to Faces When Watching Richer Social Scenes*. Presented at the International Meeting for Autism Research, Baltimore, MD.
85. Parish-Morris, J., de Marchena, A. , DePolo, L. M. , Bateman, L. , Ferguson, E. F. , Payton, K. J. and **R. T. Schultz.** (2016, May). *Psychometric Properties, Classification, and Clinical Correlates of the Children's Communication Checklist – 2nd Edition in Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Baltimore, MD.
86. Bateman, L., Ferguson, E. F. , Payton, K. J. , **Schultz, R. T.** and Parish-Morris, J. (2016, May). *Family Matters: Children and Adolescents with ASD Talk More about Family Than Friends*. Presented at the International Meeting for Autism Research, Baltimore, MD.
87. Paterson, S. J., Wolff, J. J., Swanson, M. R., Elison, J. T., Zwaigenbaum, L., Estes, A. M., Botteron, K., Hazlett, H. C. , Pandey, J. , **Schultz, R. T.**, Piven, J. and .. The IBIS Network. (2016, May). *The Relationship Between Temperament and Brain Development in Infant Siblings with Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Baltimore, MD.



88. Santulli, M., Parish-Morris, J., Ferguson, E. F., Bateman, L., **Schultz, R. T.** and Donaher, J. G. (2016, May). *Disfluencies Distinguish the Speech of Children with Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Baltimore, MD.
89. Parish-Morris, J., **Schultz, R. T.**, Liberman, M. Y. and Cieri, C. (2016, May). *Linguistic Markers of Autism Spectrum Disorder: Classification Sensitivity and Specificity of Language Produced during Clinical Evaluations*. Presented at the International Meeting for Autism Research, Baltimore, MD.
90. Marrus, N. , Eggebrecht, A. T., Todorov, A., Elison, J. T. , Wolff, J. J. , Gao, W., Pandey, J., Shen, M. D., Swanson, M. R. , Emerson, R. , Klohr, C. L. , Adams1, C. M. , Snyder, A. Z., Estes, A. M., Zwaigenbaum, L. , Botteron, K. , McKinstry, R. , Constantino, J. N. , Evans, A. C. , Hazlett, H. C., Dager, S. , Paterson, S. J. , **Schultz, R. T.**, Styner, M. ,Gerig, G., .. The IBIS Network, Schlaggar, B. L., Petersen, S. E., Piven, J. and Pruett, J. R. (2016, May). *Gross Motor Function and Brain Functional Connectivity in Infants and Toddlers at Risk for ASD*. Presented at the International Meeting for Autism Research, Baltimore, MD.
91. Ferguson, E. F. , Nahmias, A. S. , Bateman, L. , Payton, K. J. , Mandell, D. S. , **Schultz, R. T.** and Parish-Morris, J. (2016, May). *Peer Versus Teacher Talk in Early Intervention Classrooms: Case Studies Suggest That Inclusion Might be Different*. Presented at the International Meeting for Autism Research, Baltimore, MD.
92. Yerys, B. E. , Mosner, M. G., Antezana, L. , Kenworthy, L. , Tunc, B. , Satterthwaite, T. , Verma, R. , Gaillard, W. D. , Vaidya, C. J. , Davatzikos, C. and **Schultz, R. T.** (2016, May). *ASD and Inattention: Multimodal Imaging Implicates the Salience Network*. Presented at the International Meeting for Autism Research, Baltimore, MD.
93. Clements, C. C. , DePolo, L. M. , de Marchena, A. , McDonald-McGinn, D. M. , Zackai, E. H., Emanuel, B., **Schultz, R. T.**, Miller, J. and Wenger, T. L. *22q11.2 Duplication Syndrome: Assessment of Autism Spectrum Disorder, Other Neuropsychiatric Symptoms, and Adaptive Skills*. Presented at the International Meeting for Autism Research, Baltimore, MD. 2016.
94. Cleary, P., Maddox, B. B., Kuschner, E. S., Guy, L. R. , **Schultz, R. T.**, Miller, J. and Yerys, B. E. (2016, May). *Does the Collaborative and Proactive Solutions Model Explain Aggressive Behavior in Children with Autism Spectrum Disorder without Intellectual Disability?* Presented at the International Meeting for Autism Research, Baltimore, MD.
95. Latterner, L. , Pandey, J. , Maldarelli, J. E. , **Schultz, R. T.** and McCleery, J. (2016, May). *Examination of the Role of Social and Sensory Factors in Atypical Speech Processing in Autism Spectrum Disorder*. Presented at the International Meeting for Autism Research, Baltimore, MD.
96. Shen, M. D., Styner, M., Swanson, MR, Wolff, JJ , Elison, JT, Smith, RG. , Graves, M. M. , Botteron, K., Dager, S. , **Schultz, R. T.**, Zwaigenbaum, L. , Estes, A. M. , Piven, J. , Hazlett, H. C. and .. The IBIS Network. (2016, May). *A Longitudinal MRI Study of Subcortical Brain Development in Infants Who Develop Autism and Infants with Fragile X Syndrome*. Presented at the International Meeting for Autism Research, Baltimore, MD.
97. Elison, J. T. , Wolff, J. J. , Teska, E. P., Botteron, K., Estes, A. M. , Hazlett, H. C. , Pandey, J., **Schultz, RT**, Zwaigenbaum, L. , Piven, J. and .. The IBIS Network. (2016, May). *Cataloguing and Characterizing Interests in Typically Developing Toddlers and Toddlers Who Develop ASD*. Presented at the International Meeting for Autism Research, Baltimore, MD.
98. Slomowitz, R. F., Pandey, J, Shen, MD, Das, S, MacIntyre, L., Wood, J., Maldarelli, J. E., Botteron, K., Dager, S., Estes, A. M., Zwaigenbaum, L., Hazlett, HC., Styner, M., Shaw, D, **Schultz, RT**, Piven, J., McKinstry, R. and .. The IBIS Network. (2016, May). *The Rates of Incidental Perivascular Space (PVS) Findings on MRI Among Infants at High- and Low-Risk for ASD: Preliminary Results from the IBIS Study*. Presented at the International Meeting for Autism Research, Baltimore, MD.
99. Herrington, J., Miller, J. , Letzen, J., Pandey, J., and **Schultz, RT.** (2016, May). *Fusiform in Context: Face Processing in the Era of Connectomics*. Presented at the International Meeting for Autism Research, Baltimore, MD.

100. Parish-Morris, J., Chevallier, C., Yerys, B. E., Herrington, J., Brodtkin, E.S. and **Schultz, RT.** (2016, May). *Children with ASD Look Less at Faces When It Really Matters*. Presented at the International Meeting for Autism Research, Baltimore, MD.
101. Wenger TL, Clements C, McDonald-McGinn DM, DePolo L, Zoltowski A, Emanuel BS, Zackai EH, **Schultz RT.** *Elevated risk of autism spectrum disorder in children with atypical deletions and duplications of 22q11.2 including LCR-A to B vs LCR B to D*. American Cleft Palate Craniofacial Association, 2017. Platform presentation
102. **Schultz RT,** Clements C, Miller J, de Marchena A, Zackai E, Emanuel B, McDonald-McGinn D, Wenger TL. (2017, May). *Comparing idiopathic and 22q11.2 syndromic forms of autism*. Society of Biological Psychiatry.
103. Wenger TL, Clements C, McDonald-McGinn DM, DePolo L, Carey JC, Zoltowski A, Emanuel BS, Zackai EH, **Schultz RT.** (2017, March). *Elevated risk of autism spectrum disorder in children with atypical deletions and duplications of 22q11.2 including LCR-A to B vs LCR B to D*. American College of Medical Genetics, Phoenix, AZ.
104. Bagdasarov, A., Kim, E., Zhang, Y., Dravis, Z., Cola, M., Maddox, B., Ferguson, E., Adeoye, L., Fergusson, F., Pallathra, A., Minyanou, N., Bateman, L., Pomykacz, A., Bartley, K., Brodtkin, E., Pandey, J., Parish-Morris, J., **Schultz, R. T.,** & de Marchena, A. (2017, May). *A motor behavior as a qualitative difference in the spontaneous production of co-speech hand gestures by adults with autism spectrum disorders*. Poster presented at the 2017 International Meeting for Autism Research, San Francisco, CA, USA.
105. Bateman, L., Liberman, M. Y., Cieri, C., Herrington, J., Yerys, B. E., Ferguson, E., Pandey, J., **Schultz, R. T.,** & Parish-Morris, J. (2017, May). *Linguistic camouflage in girls with autism spectrum disorder*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
106. Boorse, J., Okocha, A., Bateman, L., Pallathra, A. A., Maddox, B., Brodtkin, E. S., Ferguson, E., Dravis, Z., Minyanou, N., Pomykacz, A., Bartley, K., Kim, E., de Marchena, A., Pandey, J., **Schultz, R.T.,** & Parish-Morris, J. (2017, May). *Conversational compensation predicts autism symptom severity: an ecologically valid marker of social motivation*. Poster presented at the 2017 International Meeting for Autism Research, San Francisco, CA, USA.
107. Clements, C., Wenger, T. L., Miller, J. S., de Marchena, A., Zoltowski, A., DePolo, L., McDonald-McGinn, D. M., Zackai, E. H., Emanuel, B., & **Schultz, R. T.** (2017, May). *Phenotypic characterization and identification of a critical region associated with autism in individuals with deletions and duplications of 22q11.2*. Symposium presentation at the 2017 International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
108. Cola, M., Kim, E., Bagdasarov, A., Zhang, Y., Dravis, Z., Maddox, B., Ferguson, E., Adeoye, L., Fergusson, F., Pallathra, A., Minyanou, N., Bateman, L., Pomykacz, A., Bartley, K., Brodtkin, E., Pandey, J., Parish-Morris, J., **Schultz, R. T.,** & de Marchena, A. (2017, May). *Features of co-speech hand gestures help predict diagnostic group membership*. Poster presented at the 2017 International Meeting for Autism Research, San Francisco, CA, USA.
109. Conca, M., Beriont, J., de Marchena, A., Maddox, B., Ferguson, E., Pallathra, A., Minyanou, N., Bateman, L., Dravis, Z., Pomykacz, A., Bartley, K., Brodtkin, E., Pandey, J., Parish-Morris, J., **Schultz, R. T.,** & Kim E. S. (2017, May). *Adults with ASD more rigid when establishing common ground during a referential communication task*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
110. Dravis, Z., Bagdasarov, A., Kim, E., Zhang, Y., Cola, M., Maddox, B., Ferguson, E., Adeoye, L., Fergusson, F., Pallathra, A., Minyanou, N., Bateman, L., Pomykacz, A., Bartley, K., Brodtkin, E., Pandey, J., Parish-Morris, J., **Schultz, R. T.,** & de Marchena, A. (2017, May). *Adults with ASD show strengths and weaknesses in conversation during a referential communication task*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.

111. Ferguson, E., Brown, J., Minyanou, N., Bateman, L., Dravis, Z., Cola, M., Pomykacz, A., de Marchena, A., Bartley, K., Kim, E., Pandey, J., **Schultz, R.**, & Parish-Morris, J. (2017, May). *Humor responses and social referencing in children with ASD: the role of social cognitive complexity*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
112. Greene, R. K., Sullivan, M., Brodtkin, E., Pallathra, A., Parish-Morris, J., **Schultz, R.**, & Dichter, G. S. (2017, May). *Dynamic eyetracking as a measure of treatment response for an ASD social skills intervention*. Poster presented at the International Meeting for Autism Research, San Francisco, CA, USA.
113. Guthrie, G., Gerdes, M., Levy, S. E., Pandey, J., Schultz, R. T., & Miller, J. S. (2017, May). *Universal screening for autism in a large healthcare system: diagnostic outcomes after age four*. **Oral** Presentation at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA
114. Liu, T., Regan, S., Ferguson, E., Bateman, L., Nahmias, A., Mandell, D., Schultz, R. T., & Parish-Morris, J. (2017, May). *Real-world conversational turn-taking: an exploratory study of preschoolers with ASD, teachers, and peers*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA
115. Migliaccio, J., Parish-Morris, J., Plate, S., Bateman, L., Wood, J., Slomowitz, R., Maldarelli, J., Pandey, J., Swanson, M., Paterson, S., Marrus, N., Estes, A., Hazlett, H., Zwaigenbaum, L., Botteron, K., Dager, S., Piven, J., **Schultz, R. T.**, & the IBIS Network. (2017, May). *When high-risk 2-year-olds without ASD talk the most*. Poster presented at the International Meeting for Autism Research, San Francisco, CA, USA.
116. Minyanou, N., Bateman, L., Liberman, M. Y., Cieri, C., Ryant, N., Brown, J., Kim, E., Dravis, Z., Ferguson, E., Bartley, K., Pomykacz, A., Pandey, J., de Marchena, A., Schultz, R. T., & Parish-Morris, J. (2017, May). *Introducing a novel community-based assessment tool: the computerized social affective language task (C-SALT)*. Poster presented at the Innovative Technologies Demonstration Session of the International Meeting for Autism Research, San Francisco, CA, USA.
117. Okocha, A., Boorse, J., Bateman, L., Pallathra, A. A., Maddox, B., Brodtkin, E. S., Ferguson, E., Dravis, Z., Minyanou, N., Pomykacz, A., Bartley, K., Kim, E., de Marchena, A., Pandey, J., Schultz, R., & Parish-Morris, J. (2017, May). *When "easy" conversations seem harder: filler words and social context in adults with ASD*. International Meeting for Autism Research, San Francisco, CA, USA.
118. Pallathra, A. A., Day-Watkins, J., Calkins, M. E., Maddox, B., Miller, J., Parish-Morris, J., Herrington, J., Kangovi, S., Tomlinson, R., Creed, T., Kerns, C., Bilker, W., Handy, F., Connell, J., Dichter, G., Mandell, D., Schultz, R. T., & Brodtkin, E. S. (2017, May). *TUNE in, a novel cognitive behavioral treatment program to improve social functioning in adults with ASD: pilot study results*. Poster presented at the International Meeting for Autism Research, San Francisco, CA, USA.
119. Pallathra, A. A., Day-Watkins, J., Calkins, M. E., Maddox, B., Miller, J., Parish-Morris, J., Herrington, J., Kangovi, S., Tomlinson, R., Creed, T., Kerns, C., Bilker, W., Handy, F., Connell, J., Dichter, G., Mandell, D., **Schultz, R. T.**, & Brodtkin, E. S. (2017, May). *TUNE in, a novel cognitive behavioral treatment program to improve social functioning in adults with ASD: pilot study results*. Poster presented at the International Meeting for Autism Research, San Francisco, CA, USA.
120. 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.**, & the IBIS Network (2017, May). *Positive and negative affective vocalizations in 2-year-olds with ASD*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
121. Rudoler, J., Wang, L. A., Pandey, J., Maldarelli, J., Vanderwal, T., Miller, J., **Schultz, R. T.**, & McCleery, J. P. (2017, May). *Electroencephalographic examination of resting state neural oscillatory activity in young children with autism spectrum disorder*. Poster presented at the International Meeting for Autism Research, San Francisco, CA, USA.

122. Sharer, E., Constantino, J.N., Botterton, K., Estes, A., Hazlett, H.C., Piven, J., **Schultz, R.T.**, & Elison, J.T. (2017, May) *Examining Sex Differences in Adaptive Behavioral Development in High Risk Infants with ASD, Social Communicative Delay, and Typical Development*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
123. Tunç, B., Parker, D., Pandey, J., Verma, R., & **Schultz, R. T.** (2017, May). *Categorical meets dimensional: a fuzzy categorical conception of autism spectrum*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
124. Wood, J. L., Wang, L. A., Pandey, J., Maldarelli, J., Rudoler, J., Slomowitz, R. F., **Schultz, R. T.**, & McCleery, J. P. (2017, May). *Event-related potentials index atypical processing of auditory tones in young children with autism spectrum disorder*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
125. Yankowitz, L. D., Herrington, J. D., Pereira, J. A., Yerys, B. E., Pandey, J., & **Schultz, R. T.** (2017, May). *Brain Enlargement Persists Through Adolescence in ASD, But is Not Predicted by Clinical Severity*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
126. Zhang, Y., Bagdasarov, A., Kim, E., Dravis, Z., Cola, M., Maddox, B., Ferguson, E., Adeoye, L., Fergusson, F., Pallathra, A., Minyanou, N., Bateman, L., Pomykacz, A., Bartley, K., Brodtkin, E., Pandey, J., Parish-Morris, J., **Schultz, R. T.**, & de Marchena, A. (2017, May). *Communicative functions of co-speech gestures during conversation in adults with ASD*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
127. Zoltowski, A., Clements, C. C., Henderson, M., Bateman, L., Stein, N., & **Schultz, R. T.** (2017, May). *The Impact of the Audience Effect and Inattention on Online Vs in-Person IQ Assessment*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
128. Zoltowski, A., Clements, C. C., Yankowitz, L., Schultz, R. T., & Herrington, J. D. (2017, May). *A functional MRI meta-analysis of reward and social motivation studies of ASD*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
129. Estes, A., Munson, J., St. John, T., Guralnick, M., Dager, S. R., Rodda, A., Hazlett, H., Botteron, K., **Schultz, R. T.**, Piven, J. (2017, May) *Preschool Peer Relationships in Younger Siblings of Children with ASD*. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, USA.
130. Maddox, B. B., Cleary, P., Kuschner, E. S., Miller, J. S., Armour, A. C., Guy, L., Kenworthy, L., Schultz, R. T., & Yerys, B. E. (2017, October). Challenging our perspectives of oppositional behaviors in children with autism spectrum disorder. In C. Kerns (Chair), *Co-occurring psychiatric disorders in children with autism spectrum disorder*. Symposium presented at the American Academy of Child and Adolescent Psychiatry's Annual Meeting, Washington, DC.
131. Jason J. Wolff, Meghan R. Swanson, Yadira Peralta, Martin A. Styner, Kelly N. Botteron, Stephen R. Dager, Jed T. Elison, Annette M. Estes, Heather C. Hazlett, Robert T. Schultz, Joseph Piven, and the IBIS Network Development of Structural Connectivity Linked To Symptom Severity in Infants with ASD. April 11-13, 2018. Talk given at the Gatlinburg Conference, San Diego CA
132. Parish-Morris, J., Pallathra, A. A., Ferguson, E., Bateman, L., Cola M. L., Uh, S., Dravis, Z. M., Zoltowski, A., Pomykacz, A., Bassanello, K., Day-Watkins, J., Maddox, B. B., Miller, J., Dichter, G. S., Connell, J., Mandell, D. S., Schultz, R. T. , & Brodtkin, E. S. (2018, May). *The Effect of TUNE-in Treatment on Naturalistic Conversation in Adults with ASD: Speaking Rate Is a Temporal Marker of Rapport*. Poster presentation at the International Society for Autism Research, Rotterdam, Netherlands.
133. Bateman, L., Ferguson, E., Cola, M. L., Uh, S., Plate, S., Dravis, Z. M., Pomykacz, A., Bassanello, K., Zoltowski, A., Herrington, J., Bartley, K., Kim, E. S., de Marchena, A., Pandey, J., Schultz, R. T., and Parish-Morris, J. (2018, May). *"Thin-Slicing" Everyday Conversations: A Quick, Low-Cost Way to Add New Dimensionality to ASD Conceptualization*. Poster presented at the International Society for Autism Research, Rotterdam, Netherlands.

134. Beriont, J., Conca, M., de Marchena, A, Bagdasarov, A., Dravis, Z., Bateman, L., Ferguson, E.F., Maddox, B.B., Pallathra, P., Minyanou, N., Pomykacz, A., Bartley, G.K., Brodtkin, E.S., Pandey, J., Parish-Morris, J., Schultz, R.T., and Kim, E.S.(2018, May) Poster presentation at the International Society for Autism Research, Rotterdam, Netherlands
135. Libster, N., Brown, J., Plate, S., Faggen, A., Slomowitz, R., Wood, J., Maldarelli, J., Pandey, J., Schultz, R.T., Parish-Morris, J., & the IBIS Network. (2018, May). *High-Dimensional Gesture Coding for Use in Prospective Gene-Brain-Behavior Studies of ASD*. Oral presentation at the International Society for Autism Research, Rotterdam, Netherlands.
136. Cola, M., Faggen, A., Parish-Morris, J., Paterson, S., Schultz, R.T., Pandey, J., & the IBIS Network. (2018, May). *Assessment modality (parent questionnaire vs. clinical interview) impacts adaptive functioning scores in preschoolers at heightened genetic risk of ASD*. Poster presentation at the International Society for Autism Research, Rotterdam, Netherlands.
137. Faggen, A., Plate, S., Brown, J., Libster, N., Slomowitz, R., Wood, J., Maldarelli, J., Pandey, J., Schultz, R.T., Parish-Morris, J., & the IBIS Network. (2018, May). *Preliminary Report: Predicting Expressive Language Abilities at Age 2 from Fine-Grained Infant Vocalization Codes at 12 months*. Oral Presentation at the International Society for Autism Research, Rotterdam, Netherlands.
138. Plate, S., Libster, N., Brown, J., Faggen, A., Slomowitz, R., Wood, J., Maldarelli, J., Pandey, J., Schultz, R.T., Parish-Morris, J. & the IBIS Network. (2018, May). *Vocal-Gesture Profiling at Age 2: Diminished Gesturing is Associated with Greater Distress in Toddlers with ASD*. Poster presentation at the International Society for Autism Research, Rotterdam, Netherlands.
139. Ferguson, E., Nahmias, A., Crabbe, S., Schultz, R. T., Mandell, D., & Parish-Morris, J. (2018, June). *Inclusion for Preschoolers with Autism: New Insights Using LENA in Urban Classrooms*. Poster presentation at the International Congress of Infant Studies, Philadelphia, PA.

See also Goggle Scholar for additional abstracts not listed here.

<https://scholar.google.com/citations?user=MmSEejkAAAAJ&hl=en>

#### Alternative Media

1. **Schultz, R**, Kohls, G. & Chevallier, C. (May 1, 2012). Social motivation, reward and the roots of autism. <http://sfari.org/news-and-opinion/viewpoint/2012/social-motivation-reward-and-the-roots-of-autism>

#### **Students Advised**

##### *Career (K) Awardees*

Primary Mentor for Nina Kadan-Lottick, M.D., M.S.P.H.

Assistant Professor,

Department of Pediatrics

Yale School of Medicine

K12: *“Psychosocial & Neuropsychological Outcomes in Children with Leukemia”*

Co-Mentor for Blythe Corbett, Ph.D.

Assistant Professor

Department of Psychiatry and Behavioral Sciences

University of California, Davis

K08: *“The Role of the Amygdala in Autism”*

Primary Mentor, for Benjamin Yerys, PhD

Assistant Professor of Psychiatry

University of Pennsylvania

K23: “*Functional Imaging of Flexibility in Autism: Informed by SLC6A4*”

Co-Mentor for Jennifer McGuire M.D., M.S.C.E.

Assistant Professor, Neurology

University of Pennsylvania

K23: “*The Effect of Behaviorally-Acquired HIV on Brain Structure and Function in Youth?*”

*Postdoctoral Fellows*

Michael Crowley (2003-2007), Kim Curby (2006-2007), Coralie Chevalier (2011-2012), Ashely DeMarchena (2014-2016), Joshua Diehl (2007-2009), Anastasia Dimitropoulos (2002-05), Laura Gault (2004-05), John Herrington (2006- 2009), Jennifer Hetzke (2003-05), Andrea Jackowski (2002-06), Roger Jou (2005- 2007), Eli Kim (2015- present), Cheryl Klaiman (2001-04), Gregor Kohls (2009-2011), Soo Jung Lee (Fulbright Scholar, 2000-01), Christina Maxwell (2011-2013), James McPartland (2004-2006), Angie O’Shea (2001-03), Julia Parish-Morris (2011-2016), Lukas Propper (Fulbright Scholar, 2001- 02), Diana Robins (2002-04), Mikle South (2005-2007), James Swain (2002-05), Marc Thioux (2002-2006), Birkan Tunc (2013-17), Tamara Vanderwal (2006-2008), Juhi Pandey (2008-2010), Gregor Kohls, (2009-2013), Susan Faja (2009-2010), Leandra Berry (2009-2011), Tara Wenger (2012-2014) Whitney Guthrie (2017- Present), Evangelos Sariyanidi (2017- Present), Casey Zampella (2017- Present)

Anastasia Dimitropoulos is now an Associate Professor of Psychology, Case Western Reserve University

Coralie Chevalier is now a Chargée de recherche (equivalent to a tenured professor), Laboratoire de Neurosciences Cognitives, INSERM, Paris France

Michael Crowley is now an Associate Professor at Yale University

Kim Curby is now a Senior Lecturer and ARC (DECRA) Research Fellow, Macquarie University, Sydney, Australia

Joshua Diehl is now an Associate Professor of Psychology, University of Notre Dame

Susan Faja is now an Assistant Professor at Harvard University

John Herrington, is now an Assistant Professor of Psychology, University of Pennsylvania School of Medicine

Andrea Jackowski is now Professor of Psychiatry, the Federal University of São Paulo, Brazil

Cheryl Klaiman is now an Associate Professor at Emory University

Roger Jou is an Instructor, Yale University

Soo Jung Lee is now an Associate Professor of Psychiatry, Catholic University, Seoul Korea

James McPartland is now an Associate Professor, Yale Child Study Center

Juhi Pandey is now an Assistant Professor, University of Pennsylvania

Julia Parish-Morris is now an Assistant Professor, University of Pennsylvania

Lukas Propper is now an Associate Professor of Psychiatry, Dalhousie University, Halifax, CA

Diana Robins is now an Associate Professor of Psychology, Drexel University

Noah Sasson is now an Associate Professor at the University of Texas @ Dallas

Mikle South is now an Associate Professor of Psychology, BYU

Birkan Tunc is now an Assistant Professor, University of Pennsylvania

Tamara Vandewal is now an Associate Research Scientist, Yale University

*Graduate & Medical Students (selected)*

Michael Bloch (2004-2009), Hiali Chui (1999-2001), Caitlin Clements (2013-), Chris Contardo (2003-2005), Elizabeth Kelly (2004-2007), David Ross (2002-2003, thesis committee), Cathy Tsastsanis (1999-2001), Christiaan Van der Gaag (1999-2006), Tamara Vanderwal (2004 –2006), Reza Vagefi (1998- 2002), Xiaolan Zeng (1997-2000), Hilary Dingfelder, (2007-2012), Julia Parish-Morris (2007-2010), Vanessa Troiani (2008-2012), David Kahn (2009-2015), Allison Nahmias (2010-

2017), Leah Wang (2017-), Lisa Yankowitz (2015-)

*High School Students (Selected)*

Sylviane Boddy (2003-2005), Semifinalist for the Intel Science Talent Competition

**Current Research Funding**

5U54HD086984-03, Sub-Project ID: 8059, NICHD Yudkoff (PI) 11/01/2015-05/31/2020  
“Intellectual and Development Disabilities Research Center: Administrative - Core A”: The major goal of the IDDRC Administrative Core is to provide oversight for overall Center function, including the research, educational, and advocacy missions.  
Role: Co-PI

5U54HD086984-03, Sub-Project ID: 8065, NICHD Schultz (PI) 11/01/2015-05/31/2020 “Intellectual and Development Disabilities Research Center: Clinical Translational - Core B”: The major goal of this project is to provide investigators with a set of research participant recruitment and remote phenotyping services that enhance the productivity of the IDDRC.

5R01HD089390-02, NICHD Verma (PI); Schultz (PI, CHOP Subcontract) 02/01/2016-01/31/2021 “Temporal Connectomics for Infant Brain: Neurodevelopment Modulated by Pathology”: The goal of this project is to conduct a comprehensive comparative longitudinal analysis of brain organization of high- and low-risk populations, by using Infant Brain Imaging Study (IBIS) diffusion MRI (dMRI) data collected at 3 time points in the first 2 years of life.

2R01HD055741-11, NICHD Piven (PI); Schultz (PI, CHOP Subcontract) 09/07/2017-7/31/2022  
“A Longitudinal Brain and Behavior Study of Autism from Infancy through School Age”: The goal of this project is to continue to follow a unique cohort of children at high- and low-familial risk for an autism spectrum disorder into school age (7-10 years) with detailed brain and behavior assessments.

5R01MH107506-03, NIMH Edgar (PI) 03/01/2016-02/28/2021  
“A Longitudinal Study of Brain Development in Children with Autism”: The major goal via a longitudinal study will to demonstrate that neural dysfunction and clinical symptoms in ASD arise, in part, from abnormal thalamic and thalamocortical structure.  
Role: Co-Investigator

SFARI #387903, Simons Foundation Schultz & Pandey (PI) 03/01/2016-02/28/2019  
“CHOP National Autism Cohort”: The overall goals of the national autism cohort initiative are to recruit and retain a community of 50,000 individuals with autism spectrum disorders (ASD), along with their family members, in the United States.

5R01MH107431-03, NIMH Martin (PI); Schultz (PI, CHOP Subcontract) 09/15/2015-5/31/2020  
“Dimensional Analysis of Developmental Brain Disorders”: The major goal of this project is to explain the phenotypic variability in individuals with a developmental brain disorder and a *de novo* CNV using a genome-first approach.

5UG3OD023342-02, NIH Newschaffer (PI); Schultz (PI, CHOP Subcontract) 09/21/2016-08/31/2018

“An ASD Enriched (ASD-ER) ECHO Cohort”: The goal of this project is to collect new biosample (teeth, DNA) and clinical data across high-risk ASD samples across a number of longitudinal baby sibling child cohorts across the country to elucidate the relationship between prenatal environmental exposure and autism risk.

5R01ES026961-02, NIEHS Volk (PI); Schultz (PI, CHOP Subcontract) 09/30/2016-08/31/2021 “Investigating Air Pollution Effects on the Developing Brain and ASD”: The goals of this project are to examine the effects of prenatal and early life air pollution exposure on autism diagnosis/outcome and brain and behavior trajectories.

CHOP/Penn McMorris Autism Initiative                      Mandell & Schultz (PI)                      07/01/2014-06/30/2018

This initiative fosters research by postdoctoral fellows and junior faculty into mediators and moderators of response to intervention for individuals with ASD and developmental disorders.

Lurie Family Foundation    Schultz (PI)    07/01/2011-06/30/2018

“A System Biology Approach to Identifying Functional Genetic Circuits in Autism”: The study aims to obtain and analyze DNA of 1000 individuals with ASD and compare them through selective genotyping and selective sequencing to 5,000 typically developing controls (TDCs).

No Award No., Aevi Genomics, Inc.    Schultz (PI)    10/01/2015-12/31/2018

Sponsored Research Agreement: The objectives are to develop the IRB protocol and assist in amending an IND application for a future clinical trial using NFC-1 with a population of children with ASD.