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## Jeffrey A Munson

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### EDUCATION

B. A. *Stanford University, 1988*  
Psychology, with Departmental Honors

Ph.D. *University of Washington, 1998*  
Major area: Child Clinical Psychology  
Dissertation: Structure and variability in the developmental trajectory of children's externalizing problems : Impact of child sex, infant attachment, and maternal depression

### PROFESSIONAL POSITIONS

1997-1998 Psychological Intern. University of Washington. Department of Psychiatry and Behavioral Sciences  
1998-2006 Research Scientist, Center on Human Development and Disability, University of Washington  
1998-present Director, UW Autism Center Informatics Core  
2007-present Research Assistant Professor of Psychiatry and Behavioral Sciences, University of Washington

### PROFESSIONAL ACTIVITIES

Ad hoc reviewer: Archives of Clinical Neuropsychology  
Autism: International Journal of Research and Practice  
Development and Psychopathology  
Developmental Psychology  
Journal of Autism and Development Disorders  
Autism Research  
New England Journal of Medicine

Grant Review Panels: Small Business: Biobehavioral and Behavioral Processes Across the Lifespan (NIH ZRG1 BBBP-T (10) B) (2009 – present)

### PUBLICATIONS

#### Journal Articles

1. Gehring, T. M., Wentzel, K. R.; Feldman, S. S., Munson, J. (1990). Conflict in families of adolescents: The impact on cohesion and power structures. *Journal of Family Psychology*, 3, 290-309.

2. Feldman, S. S., Wentzel, K. R., Weinberger, D. A., Munson, J. A. (1990). Marital satisfaction of parents of preadolescent boys and its relationship to family and child functioning. *Journal of Family Psychology*, 4, 213-234.
3. Marachi R., McMahon R.J., Spieker S.J., & Munson J.A. (1999). Longitudinal assessment of the low-end specificity of maternal reports of depressive symptoms. *Behavior Research and Therapy*, 37,483-501.
4. Munson J.A., McMahon R.J., & Spieker S.J. (2001) Structure and variability in the developmental trajectory of children's externalizing problems: impact of infant attachment, maternal depressive symptomatology, and child sex. *Development and Psychopathology*, 13, 277-296.
5. Dager, S.R., Friedman, S.D., Shaw, D., Echelard, D., Artru, A., Strauss, W.L., Sparks, B., Carver, L., Richards, T.L., Munson, J., & Dawson, G. (2000). Neuroimaging of the Autistic Child's Brain: Brain Structure, Chemistry and Function. *J Intellectual Disability Research* 44:253.
6. Osterling, J., Dawson, G., & Munson, J. (2002). Early recognition of one year old infants with autism spectrum disorder versus mental retardation: A study of first birthday party home videotapes. *Development and Psychopathology*, 14: 239-51.
7. Dawson, G., Munson, J., Estes, A., Osterling, J., McPartland, J., Toth, K., et al. (2002). Neurocognitive function and joint attention ability in young children with autism spectrum disorder. *Child Development*, 73, 345-358.
8. Sparks, B.F., Friedman, S.D., Shaw, D.W., Aylward, E.H., Echelard, D., Artru, A.A., Maravilla, K.R., Giedd, J.N., Munson, J., Dawson, G., & Dager, S.R. (2002). Brain Structural Abnormalities in Young Children with Autism Spectrum Disorder. *Neurology*, 59: 184-192.
9. Unis, A., Munson, J., Rogers, S.J., Goldson, E., Osterling, J., Gabriels, R., Abbott, R., & Dawson, G. (2002). A randomized, double-blind, placebo-controlled trial of porcine versus synthetic secretin for reducing symptoms of autism. *Journal of the Academy of Child and Adolescent Psychiatry*, 41: 1315-21.
10. Yu, C., Dawson, G., Munson, J., D'Souza, I., Osterling, J., Estes, A., et al. (2002). Presence of Large Deletions in Autism Kindred. *American Journal of Human Genetics*, 71: 100-115.
11. Sultana, R., Yu, C.-E., Yu, J., Munson, J., Chen, D., Hua, W., Estes, A., Cortes, F., de la Barra, F., Yu, D., Haider, S. T., Trask, B. J., Green, E. D., Raskind, W. H., Disteche, C. M., Wijsman, E., Dawson, G., et al. (2002). Identification of a Novel Gene on Chromosome 7q11.2 Interrupted by a Translocation Breakpoint in a Pair of Autistic Twins. *Genomics*: 80, 129-134.
12. Carver, L., Dawson, G., Panagiotides, H., Meltzoff, A. N., McPartland, J., Gray, J., & Munson, J. (2003). Age-related differences in neural correlates of face recognition during the toddler and preschool years. *Developmental Psychobiology*, 42:148-59.
13. Dawson, G., Toth, K., Abbott, R., Osterling, J., Munson, J., Estes, A., Liaw, J. (2004). Early Social Attention Impairments in Autism: Social Orienting, Joint Attention, and Attention to Distress. *Developmental Psychology*, 40, 271-283.
14. Ozonoff, S., Cook, I. Coon, H., Dawson, G., Joseph, R. M., Klin, A., McMahon, W. M., Minschew, N., Munson, J. A., Pennington, B. F., Rogers, S. J., Spence, M. A., Tager-Flusberg, H., Volkmar, F. R., Wrathall, D. (2004). Performance on Cambridge Neuropsychological Test Automated Battery Subtests Sensitive to Frontal Lobe Function in People with Autistic Disorder: Evidence from the Collaborative Programs of Excellence in Autism Network. *Journal of Autism & Developmental Disorders*, 34, 139-150.
15. Sung, J.U., Dawson, G., Munson, J., Estes, A., Schellenberg, J., & Wijsman, E.M. (2005). Genetic Investigation of Quantitative Traits Related to Autism: Use of Multivariate Polygenic Models with Ascertainment Adjustment. *American Journal of Human Genetics*, 76, 68-81.

16. Werner, E., Dawson, G., Munson, J., & Osterling, J. (2005). Variation in early developmental course in autism and its relation with behavioral outcome at 3-4 years of age. *Journal of Autism & Developmental Disorders*, 35, 337-350.
17. Dawson G., Webb S.J., Wijsman E., Schellenberg G., Estes A., Munson J., Faja S. (2005). Neurocognitive and electrophysiological evidence of altered face processing in parents of children with autism: Implications for a model of abnormal development of social brain circuitry in autism. *Developmental Psychopathology*, 17, 679-697.
18. Munson, J, Dawson, G., Abbott, R., Faja, S., Webb, S.J., Friedman, S.D. Shaw, D., Artru, A., and Dager, S. (2006). Amygdalar volume and behavioral development in autism. *Archives of General Psychiatry*, 63, 686-693.
19. Schellenberg, G.D., Dawson, G., Sung, Y.J., Estes, A., Munson, J., Rosenthal, E., Rothstein, J., Flodman, P., Smith, M., Coon, H., Leong, L., Yu, C.E., Stodgell, C., Rodier, P.M., Spence, M.A., Minshew, N., McMahon, W.M., & Wijsman E.M. (2006). Evidence for multiple loci from a genome scan of autism kindreds. *Molecular Psychiatry*, 140, 1049-1060.
20. Schellenberg, G.D., Dawson, G., Sung, Y.J., Estes, A., Munson, J., Rosenthal, E., Rothstein, J., Flodman, P., Smith, M., Coon, H., Leong, L., Yu, C.E., Stodgell, C., Rodier, P.M., Spence, M.A., Minshew, N., McMahon, W.M., & Wijsman E.M. (2006). Evidence for genetic linkage of autism to chromosomes 7 and 4. *Molecular Psychiatry*, 140, 2257-2274.
21. Toth, K. Munson, J., Meltzoff, A., Dawson, G. (2006). Early predictors of communication development in young children with autism spectrum disorder: Joint attention, imitation, and toy play. *Journal of Autism & Developmental Disorders*, 36, 993-1005.
22. Lainhart JE, Bigler ED, Bocian M, Coon H, Dinh E, Dawson G, Deutsch CK, Dunn M, Estes A, Tager-Flusberg H, Folstein S, Hepburn S, Hyman S, McMahon W, Minshew N, Munson J, Osann K, Ozonoff S, Rodier P, Rogers S, Sigman M, Spence MA, Stodgell CJ, Volkmar F. (2006). Head circumference and height in autism: a study by the Collaborative Program of Excellence in Autism, *American Journal of Medical Genetics. Part A.*, 140, 2257-74.
23. Dawson, G., Estes, A., Munson, J., Schellenberg, G., Bernier, R., & Abbott, R. (2007). Quantitative assessment of autism symptom-related traits in probands and parents: Broader Phenotype Autism Symptom Scale. *Journal of Autism and Developmental Disorders*, 37, 523-536.
24. Dawson, G., Munson J., Webb S.J., Nalty, T., Abbott, R., & Toth, K. (2007). Rate of head growth decelerates and symptoms worsen in the second year of life in autism. *Biological Psychiatry*, 61, 458-464.
25. Autism Genome Project Consortium: (2007) Mapping autism risk loci using genetic linkage and chromosomal rearrangements. *Nature Genetics*, 39, 319-28.
26. Estes A. M, Dawson, G., Sterling, L., Munson, J. (2007). Level of intellectual functioning predicts patterns of associated symptoms in school-age children with autism spectrum disorder. *American Journal on Mental Retardation*, 112, 439-449.
27. Webb, S.J., Nalty, T., Munson, J., Brock, C., Abbott, R., & Dawson, G. (2007) Rate of head circumference growth as a function of autism diagnosis and history of autistic regression. *Journal of Child Neurology*, 22, 1182-1190.
28. Elder, L. M., Dawson, G., Toth, K., Fein, D., Munson, J. (2007). Head circumference as an early predictor of autism symptoms in younger siblings of children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 38, 1104-1111.
29. Brune, C.W., Korvatska, E., Allen-Brady, Cook, E.H. Dawson G., Devlin, B., Estes, A., Hennelly, M., Hyman, S., McMahon, W.M., Munson, J., Rodier, P.M., Schellenberg, G.D., Stodgell, C.J., & Coon, H. (2008). Heterogeneous Association between Engrailed-2 and Autism in the CPEA Network. *Neuropsychiatric Genetics*, 147, 187-193.
30. Sterling L, Dawson G, Webb S, Murias M, Munson J, Panagiotides H, Aylward E. (2008). The Role of Face Familiarity in Eye Tracking of Faces by Individuals with Autism Spectrum Disorders, *Journal of Autism and Developmental Disorders*, 38, 1666-1675.

31. Liu XQ, Paterson AD, Szatmari P; Autism Genome Project Consortium. (2008). Genome-wide linkage analyses of quantitative and categorical autism subphenotypes. *Biological Psychiatry*, 64, 561-570.
32. Munson, J., Dawson, G., Sterling, L., Beauchaine, T., Zhou, A., Koehler, E., Lord, C., Rogers, S., Sigman, M., Estes, A., & Abbott, R. (2008). Evidence for latent classes of IQ in young children with autism spectrum disorder, *American Journal on Mental Retardation*, 113, 427-438.
33. Munson, J., Faja, S., Meltzoff, A., Abbott, R, & Dawson, G. (2008). Neurocognitive predictors of social and communicative developmental trajectories in preschoolers with autism spectrum disorders, *Journal of the International Neuropsychological Society*, 14, 956-966.
34. Liu XQ, Paterson AD, Szatmari P; Autism Genome Project Consortium. (2008). Genome-wide linkage analyses of quantitative and categorical autism subphenotypes. *Biological Psychiatry*, 64, 561-70.
35. Glessner, JT, Wang, K, Cai, G, Korvatska, O., Kim, CE., Wood, S., Zhang, H., Estes, A., Brune, C., Bradfield, JP., Imielinski, M., Frackelton, EC, Reichert, J., Crawford, E., Munson, J., Sleiman, P., Chiavacci, R., Annaiah, K., Thomas, K., Hou, C., Glaberson, W., Flory, J., Otieno, F., Garris, M., Soorya, L., Klei, L., Piven, J., Meyer, KJ., Anagnostou, E., Sakurai, T., Game, RM., Rudd, DS., Zurawiecki, D., McDougle, C., Davis, LK., Miller, J., Posey, D., Michaels, S., Kolevzon, A., Silverman, J., Bernier, R., Levy, SE., Dawson, G., Owley, T., McMahon, WM., Wassink, TH., Sweeney, JA., Nurnberger JI., Coon, H., Sutcliffe, JS., Minshew, NJ., Grant, S., Bucan, M., Cook, EH., Buxbaum, JD., Devlin, B., Schellenberg, GD., Hakonarson, H. (2009). Autism genome wide copy number variation reveals ubiquitin and neuronal genes, *Nature*, 459, 569-573.
36. Wang, K., Zhang, H., Ma, D., Bucan, M., Glessner, J.T., Abrahams, BS., Salyakina, D., Imielinski, M., Bradfield, J.P., Sleiman, P., Kim, C.E., Chiavacci, R., Takahashi, N., Sakurai, T., Rappaport, E., Lajohchere, C.M., Munson, J., Estes, A., Korvatska, O., Piven, J., Sonnenblick, LI., Alvarez Retuerto, A., Herman, EI., Dong, H., Hutman, T., Sigman, M., Ozonoff, S., Klin, A., Owley, T., Sweeney, J.A., Brune, C.W., Cantor, R., Bernier, R., Gilbert, JR., Cuccaro, ML., Wassink, TH., McMahon, WM., Coon, H., Miller, J., Nurnberger, JI., State, M., Haines, JL., Levy, S., Sutcliffe, J.S., Cook, EH., Minshew, N.J., Buxbaum, J.D., Dawson, G., Grant, S., Geshwind, DH., Pericak-Vance, M., Schellenberg, G.D., Hakonarson, H. (2009). Common genetic variation in the intergenic region between CDH10 and CDH9 is associated with susceptibility to autism spectrum disorders. *Nature*, 459, 528-533.
37. Weiss, L.A., Weiss LA, Arking DE; Gene Discovery Project of Johns Hopkins & the Autism Consortium, Daly MJ, Chakravarti A. (2009). A genome-wide linkage and association scan reveals novel loci for autism. *Nature*, 461, 802-808.
38. Estes, A. Munson, J., Dawson, G., Koehler, E., Zhou, X.H., Abbott, R. (2009). Parenting stress and psychological functioning among mothers of preschool children with autism and developmental delay. *Autism*, 13, 375-387.
39. Dawson, G., Rogers, S., Munson, J., Smith, M., Wonter, J., Greenson, J., Donaldson, A., Varley, J. (2010). Randomized, controlled trial of an intervention for toddlers with autism: The early start Denver model. *Pediatrics*, 125, e17-e23.
40. Pinto D, Pagnamenta AT, Klei L, Anney R, Merico D, Regan R, Conroy J, Magalhaes TR, Correia C, Abrahams BS, Almeida J, Bacchelli E, Bader GD, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bölte S, Bolton PF, Bourgeron T, Brennan S, Brian J, Bryson SE, Carson AR, Casallo G, Casey J, Chung BH, Cochrane L, Corsello C, Crawford EL, Crossett A, Cytrynbaum C, Dawson G, de Jonge M, Delorme R, Drmic I, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Fombonne E, Freitag CM, Gilbert J, Gillberg C, Glessner JT, Goldberg J, Green A, Green J, Guter SJ, Hakonarson H, Heron EA, Hill M, Holt R, Howe JL, Hughes G, Hus V, Iglizoi R, Kim C, Klauck SM, Kolevzon A, Korvatska O, Kustanovich V, Lajonchere CM, Lamb JA, Laskawiec M, Leboyer M, Le Couteur A, Leventhal

- BL, Lionel AC, Liu XQ, Lord C, Lotspeich L, Lund SC, Maestrini E, Mahoney W, Mantoulan C, Marshall CR, McConachie H, McDougle CJ, McGrath J, McMahon WM, Merikangas A, Migita O, Minshew NJ, Mirza GK, Munson J, Nelson SF, Noakes C, Noor A, Nygren G, Oliveira G, Papanikolaou K, Parr JR, Parrini B, Paton T, Pickles A, Pilorge M, Piven J, Ponting CP, Posey DJ, Poustka A, Poustka F, Prasad A, Ragoussis J, Renshaw K, Rickaby J, Roberts W, Roeder K, Roge B, Rutter ML, Bierut LJ, Rice JP, Salt J, Sansom K, Sato D, Segurado R, Sequeira AF, Senman L, Shah N, Sheffield VC, Soorya L, Sousa I, Stein O, Sykes N, Stoppioni V, Strawbridge C, Tancredi R, Tansey K, Thiruvahindrapduram B, Thompson AP, Thomson S, Tryfon A, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Wallace S, Wang K, Wang Z, Wassink TH, Webber C, Weksberg R, Wing K, Wittemeyer K, Wood S, Wu J, Yaspan BL, Zurawiecki D, Zwaigenbaum L, Buxbaum JD, Cantor RM, Cook EH, Coon H, Cuccaro ML, Devlin B, Ennis S, Gallagher L, Geschwind DH, Gill M, Haines JL, Hallmayer J, Miller J, Monaco AP, Nurnberger Jr JI, Paterson AD, Pericak-Vance MA, Schellenberg GD, Szatmari P, Vicente AM, Vieland VJ, Wijsman EM, Scherer SW, Sutcliffe JS, Betancur C. (2010). Functional impact of global rare copy number variation in autism spectrum disorders. *Nature*, 466: 368-372.
41. Anney R, Klei L, Pinto D, Regan R, Conroy J, Magalhaes TR, Correia C, Abrahams BS, Sykes N, Pagnamenta AT, Almeida J, Bacchelli E, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bölte S, Bolton PF, Bourgeron T, Brennan S, Brian J, Carson AR, Casallo G, Casey J, Chu SH, Cochrane L, Corsello C, Crawford EL, Crossett A, Dawson G, de Jonge M, Delorme R, Drmic I, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Fombonne E, Freitag CM, Gilbert J, Gillberg C, Glessner JT, Goldberg J, Green J, Guter SJ, Hakonarson H, Heron EA, Hill M, Holt R, Howe JL, Hughes G, Hus V, Iglizzi R, Kim C, Klauck SM, Kolevzon A, Korvatska O, Kustanovich V, Lajonchere CM, Lamb JA, Laskawiec M, Leboyer M, Le Couteur A, Leventhal BL, Lionel AC, Liu XQ, Lord C, Lotspeich L, Lund SC, Maestrini E, Mahoney W, Mantoulan C, Marshall CR, McConachie H, McDougle CJ, McGrath J, McMahon WM, Melhem NM, Merikangas A, Migita O, Minshew NJ, Mirza GK, Munson J, Nelson SF, Noakes C, Noor A, Nygren G, Oliveira G, Papanikolaou K, Parr JR, Parrini B, Paton T, Pickles A, Piven J, Posey DJ, Poustka A, Poustka F, Prasad A, Ragoussis J, Renshaw K, Rickaby J, Roberts W, Roeder K, Roge B, Rutter ML, Bierut LJ, Rice JP, Salt J, Sansom K, Sato D, Segurado R, Senman L, Shah N, Sheffield VC, Soorya L, Sousa I, Stoppioni V, Strawbridge C, Tancredi R, Tansey K, Thiruvahindrapduram B, Thompson AP, Thomson S, Tryfon A, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Wallace S, Wang K, Wang Z, Wassink TH, Wing K, Wittemeyer K, Wood S, Yaspan BL, Zurawiecki D, Zwaigenbaum L, Betancur C, Buxbaum JD, Cantor RM, Cook EH, Coon H, Cuccaro ML, Gallagher L, Geschwind DH, Gill M, Haines JL, Miller J, Monaco AP, Nurnberger JI Jr, Paterson AD, Pericak-Vance MA, Schellenberg GD, Scherer SW, Sutcliffe JS, Szatmari P, Vicente AM, Vieland VJ, Wijsman EM, Devlin B, Ennis S, Hallmayer J. (2010). A genome-wide scan for common alleles affecting risk for autism. *Hum Mol Genet*, 19(20):4072-4082.
42. Noor A, Whibley A, Marshall CR, Gianakopoulos PJ, Piton A, Carson AR, Orlic-Milacic M, Lionel AC, Sato D, Pinto D, Drmic I, Noakes C, Senman L, Zhang X, Mo R, Gauthier J, Crosbie J, Pagnamenta AT, Munson J, Estes AM, Fiebig A, Franke A, Schreiber S, Stewart AF, Roberts R, McPherson R, Guter SJ, Cook EH Jr, Dawson G, Schellenberg GD, Battaglia A, Maestrini E; Autism Genome Project Consortium, Jeng L, Hutchison T, Rajcan-Separovic E, Chudley AE, Lewis SM, Liu X, Holden JJ, Fernandez B, Zwaigenbaum L, Bryson SE, Roberts W, Szatmari P, Gallagher L, Stratton MR, Gecz J, Brady AF, Schwartz CE, Schachar RJ, Monaco AP, Rouleau GA, Hui CC, Lucy Raymond F, Scherer SW, Vincent JB. (2011). Disruption at the PTCHD1 Locus on Xp22.11 in Autism spectrum disorder and intellectual disability. *Sci Transl Med*, 2(49):49ra68.

43. Chapman NH, Estes A, Munson J, Bernier R, Webb SJ, Rothstein JH, Minshew NJ, Dawson G, Schellenberg GD, Wijsman EM. (2011). Genome-scan for IQ discrepancy in autism: evidence for loci on chromosomes 10 and 16. *Hum Genet.* 129(1):59-70.
44. Korvatska O, Estes A, Munson J, Dawson G, Bekris LM, Kohen R, Yu CE, Schellenberg GD, Raskind WH. (2011). Mutations in the TSGA14 gene in families with autism spectrum disorders. *Am J Med Genet B Neuropsychiatr Genet.* 156(B): 303-311.
45. Casey JP, Magalhaes T, Conroy JM, Regan R, Shah N, Anney R, Shields DC, Abrahams BS, Almeida J, Bacchelli E, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bolton PF, Bourgeron T, Brennan S, Cali P, Correia C, Corsello C, Coutanche M, Dawson G, de Jonge M, Delorme R, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Foley S, Fombonne E, Freitag CM, Gilbert J, Gillberg C, Glessner JT, Green J, Guter SJ, Hakonarson H, Holt R, Hughes G, Hus V, Iglizzi R, Kim C, Klauck SM, Kolevzon A, Lamb JA, Leboyer M, Le Couteur A, Leventhal BL, Lord C, Lund SC, Maestrini E, Mantoulan C, Marshall CR, McConachie H, McDougle CJ, McGrath J, McMahon WM, Merikangas A, Miller J, Minopoli F, Mirza GK, Munson J, Nelson SF, Nygren G, Oliveira G, Pagnamenta AT, Papanikolaou K, Parr JR, Parrini B, Pickles A, Pinto D, Piven J, Posey DJ, Poustka A, Poustka F, Ragoussis J, Roge B, Rutter ML, Sequeira AF, Soorya L, Sousa I, Sykes N, Stoppioni V, Tancredi R, Tauber M, Thompson AP, Thomson S, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Vorstman JA, Wallace S, Wang K, Wassink TH, White K, Wing K, Wittmeyer K, Yaspan BL, Zwaigenbaum L, Betancur C, Buxbaum JD, Cantor RM, Cook EH, Coon H, Cuccaro ML, Geschwind DH, Haines JL, Hallmayer J, Monaco AP, Nurnberger JI Jr, Pericak-Vance MA, Schellenberg GD, Scherer SW, Sutcliffe JS, Szatmari P, Vieland VJ, Wijsman EM, Green A, Gill M, Gallagher L, Vicente A, Ennis S. (2012). A novel approach of homozygous haplotype sharing identifies candidate genes in autism spectrum disorder. *Hum Genet.* 131(4), 565-79.
46. Bernier R, Gerds J, Munson J, Dawson G, Estes A. (2012). Evidence for broader autism phenotype characteristics in parents from multiple-incidence autism families. *Autism Res*, 5, 13-20.

#### Book Chapters

1. Abbott, R. D., Amtmann, D., Munson, J. (2003). Exploratory and confirmatory methods in learning disabilities research. Swanson, H. L., Harris, K. R., et al. (Eds), *Handbook of learning disabilities* (pp. 471-482). New York, NY, US: Guilford Press.
2. Abbott, R. D., Amtmann, D., & Munson, J. (2006). Statistical analysis for field experiments and longitudinal data in writing research. In C. Macarthur, S. Graham, & J. Fitzgerald (Eds.) *Handbook of Writing Research*, pp. 374-386. New York: Guilford Press.

#### Professional Articles and Editorials

1. Munson, J. A. (2009). Book Reviews. Autism: Current Theories and Evidence; The Ethics of Autism: Among Them, but Not of Them, *New England Journal of Medicine*, 360, 2485-2486
2. Munson, J., & Pasqual, P. (In Press). Technology in autism research: The promise and perils. *IEEE Computer Mag*, 45(6).

#### Conference Presentations

1. Dawson, G., Schellenberg, J., Wijsman, E., Osterling, J., Estes, A., & Munson, J. Genetic study of autism. Presented at the 1999 Meeting of the Autism Society of America, Kansas City, KS.
2. Dager, S.R., Friedman S.D., Shaw, D., Echelard, D., Artru, A.A., Strauss, W., Sparks, B., Carver, L., Richards T., Munson J., & Dawson G. (2000, March). Brain Structural and Chemical Imaging of Autistic Children, Developmentally Delayed Children and Age-Matched Controls. 20th Annual Meeting, European Winter Brain Conference. Geneva, Switzerland.

3. Dager, S.R., Friedman, S.D., Shaw, D., Echelard, D., Artru, A.A., Strauss, W.D., Sparks, B., Carver, L., Richards, T.L., Munson, J., & Dawson, G. (2000, August). Neuroimaging of the autistic child's brain: Brain, structure chemistry and function. IASSID Seattle, WA.
4. Dawson, G., Rogers, S., Sigman, M., Munson, J., & Abbott, R. Cognitive Functioning in Young Children with Autism versus Mental Retardation. Presented at the 2000 meeting of the Collaborative Programs of Excellence in Autism (CPEA). Denver, CO.
5. Werner, E., Dawson, G., Osterling, J., & Munson, J. Autistic regression: A validation of the phenomenon based on home videotapes and parent report. Presented at the 2001 meeting of the Society for Research in Child Development, Minneapolis, MI.
6. Dager, S.R., Friedman, S.D., Shaw, D.W.W., Sparks, B., Richards, T.L., Munson, J., Artru, A.A., Giedd, J., & Dawson G. (2001, December). Brain Structural and Chemical Abnormalities in Childhood Autism. Annual Meeting, American College of Neuropsychopharmacology.
7. Dager, S., Munson, J., Friedman, S., Webb, S., Shaw, D., Sparks, B., Artru, R., Abbott, R., & Dawson, G. (2002, November). Neuroimaging relationship to behavioral performance and clinical course in young children with ASD. Presented at the 2002 Meeting of the International Society for Autism Research, Orlando, FL.
8. Dawson, G., Schellenberg, G., Wijsman, E., Munson, J., & Estes, A. (2002, November). Quantitative assessments of autism symptoms in probands and family members: Broader Phenotype Autism Scale. Presented at the 2002 Meeting of the International Society for Autism Research, Orlando, FL.
9. Dawson, G., Munson, J., Estes, A., & Abbott, R. (2003, April). Early neurocognitive predictors of variations in developmental trajectory in autism. Accepted for presentation at the 2003 meeting of the Society for Research in Child Development. Tampa, FL.
10. Toth, K., Munson, J., Estes, A., Abbott, R., & Dawson, G. (2003, April). Joint Attention Predicts Rate of Language and Social Growth in Young Children With Autism. Poster presented at the 2003 meeting of the Society for Research in Child Development. Tampa, FL.
11. Toth, K., Dawson, G., Meltzoff, A., & Munson, J. (2004). Early predictors of language growth in young children with autism: Joint attention, imitation, and toy play. Poster presented at the International Meeting for Autism Research, Sacramento, CA.
12. Dawson, G., Webb, S.J., Wijsman, E., Schellenberg, G., Estes, A., Munson, J., & Faja, S. Face Processing is Altered in Parents of Children With Autism: Neurocognitive and Neurophysiological Evidence. Accepted for presentation at the 2005 Meeting of the Society for Research in Child Development. Atlanta, GA.
13. Estes, A. M., Munson, J., Clary, L., & Dawson, G. Presence of a Broader Phenotype of Autism in Siblings From Multiplex Autism Families Accepted for presentation in the Symposium on "Autism in Infancy" S. Ozonoff and N. Yirmiya (Chairs) at the 2005 Meeting of the Society for Research in Child Development. Atlanta, GA.
14. Munson, J., Dawson, G., Lord, C., Rogers, S., Sigman, M., & Abbott, R. Evidence for a bimodal distribution of neurocognitive function in autism. Presented at the 2005 meeting of the Collaborative Programs of Excellence in Autism (CPEA). Bethesda, MD.
15. Munson, J.A. (2009). Inferences on cognition in nonverbal children via real-time analysis of eye gaze. Poster presented at the International Meeting for Autism Research, Chicago, IL.

## GRANTS

Special Hope Foundation

Munson (PI)

7/1/08-6/30/09

Communication and Gaze in Children with Disabilities

The purpose of this project is to develop an innovative assessment tool using eye-tracking technology that is integrated in real-time with real-time 3D rendered graphics. The integration of these

two technologies will provide a means to investigate social-cognition and language comprehension in children with limited communication abilities.

Role: Principal Investigator

P50HD055782 NICHD/NIDCD King (PI), Munson (Core PI) 8/1/07– 7/31/12  
UW Autism Center of Excellence

The goals of this project are to (1) discover genetic and environmental risk factors for autism, (2) identify early behavioral and neurophysiological risk indices of autism, (3) examine early manifestations of abnormal brain development in autism, (4) conduct a randomized clinical trial aimed at reducing and preventing the onset of autism symptoms, (5) conduct a follow-up study of early intensive behavioral intervention in autism, and (6) identify risk factors for the development of associated conditions in adolescence in autism.

Role: Principal Investigator of Statistics and Data Management Core

Simons Foundation Munson (PI) 2/1/12-1/31/13  
Novel Measurement of Imitation and Motor Control in Severe Autism

This project will use novel computer-based activities to study imitation and motor planning skills in a sample of severely impaired adolescents with autism. The activities use the Microsoft Kinect depth camera to record body movement in fine-detail as the students pop balloons, balance blocks, play “follow the leader”, and pilot an airplane. During these activities we will measure how students modify their movements in response to what they observe on the screen. This will allow us to assess the learning process as it unfolds based on behavior the student initiates on his or her own. Tools that can assess subtle changes in behavior and learning are needed to support treatment research for those with the most severe impairments.

Role: Principal Investigator

## TEACHING

Faculty sponsor for Jae Kim, Student of Dr. Kelvin Sung in the senior internship program in the UW Bothell Department of Computing and Software Systems. Project Title: *Integrating Eye-tracking Device-Driven Applications for Studying Autism Using Valve's Source Real-time Game Engine*. (2009).

Faculty sponsor for Young Youn, Student of Dr. Kelvin Sung in the senior internship program in the UW Bothell Department of Computing and Software Systems. Project Title: *Eye-tracking Across Multiple Monitors Using Valve's Source Game To Investigate Nonverbal Measures of Theory of Mind*. (2009).

Faculty Mentor to David Xue, Senior Capstone Project in the UW Department of Engineering (Department sponsor, Tom Lewis, PhD). Project Title: *Design of a toolset for evaluating visual attention variability in autistic children*. (2010).

## SERVICE

Discussion Leader for the Biomedical Research Integrity Program Series, Department of Bioethics & Humanities, UW School of Medicine. (2010).



**PROFESSIONAL AFFILIATIONS**

Society for Research in Child Development  
International Society for Autism Research

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