

# Curriculum Vitae

**JOSHUA JOHN DIEHL, PH.D.**

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## CONTACT INFORMATION

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Psychology Website: [psychology.nd.edu/people/JoshuaDiehl.shtml](http://psychology.nd.edu/people/JoshuaDiehl.shtml)  
Laboratory for Understanding Neurodevelopment: [funlab.nd.edu](http://funlab.nd.edu)

## EDUCATION

2007-2009      **Postdoctoral Research Associate**  
Yale University Child Study Center and Haskins Laboratories  
2007            **Doctoral Degree in Clinical Psychology**  
University of Rochester  
2004            **Master of Arts, Psychology**  
University of Rochester  
2000            **A.B., *Cum Laude* in Psychology with a Certificate in Linguistics**  
Princeton University

## PROFESSIONAL POSITIONS

2012-            **William J. Shaw Center for Children and Families Assistant Professor of Psychology**, University of Notre Dame. *Affiliations:* Center for Children and Families, Clinical Area, Cognitive Area, Developmental Area, Disability Studies, Institute for Educational Initiatives  
2009-2012      **Assistant Professor**, Department of Psychology, University of Notre Dame  
2009-            **Research Associate**, Haskins Laboratories, New Haven, CT  
2007-2009      **Postdoctoral Research Associate**, Yale University Child Study Center and Haskins Laboratories  
2006-2007      **Clinical Psychology Intern – Child Track**, Department of Psychiatry, University of Rochester Medical School  
2000-2006      **Graduate Research and Teaching Assistant**, Developmental Neuropsychology Lab, Department of Clinical & Social Sciences in Psychology, University of Rochester

**AWARDS/HONORS**

- 2012-2015 **William J. Shaw Center for Children and Families Collegiate Chair**, University of Notre Dame
- 2010-2013 **Fellow, Institute for Educational Initiatives**, University of Notre Dame
- 2010 **Distinguished Alumnus Honorary Academic Letter**, Dansville High School, Dansville, MI
- 2007 **Doctoral Internship Award for Excellence in the Clinical Psychology Program**, Department of Psychiatry, University of Rochester School of Medicine and Dentistry
- 2006 **Alfred Baldwin Award for Excellence in Research**, Department of Clinical and Social Sciences in Psychology, University of Rochester
- 2005 **Helen & Vincent Nowlis Award for Excellence in Teaching**, Department of Clinical and Social Sciences in Psychology, University of Rochester
- 2005 **Student Travel Award**, International Meeting For Autism Research, Boston, MA
- 2004 **Student Travel Award**, International Meeting For Autism Research, Sacramento, CA
- 2002-2003 **Leadership Education in Neurodevelopmental Disabilities (LEND) Traineeship**, Strong Memorial Hospital, University of Rochester School of Medicine and Dentistry, funded by the Maternal and Child Health Bureau

**GRANTS AND FELLOWSHIPS**

- 2013 **International Conference Travel Award (\$1,960)**. International Meeting for Autism Research, San Sebastián, Spain. “The Use of Humanoid Robots As Co-Therapists in ABA Therapy for Children with Autism Spectrum Disorder.” Institute for Scholarship in the Liberal Arts, University of Notre Dame (PI: Diehl).
- 2012-2013 **Small Research and Creative Work Grant (\$320.00)**, “Notre Dame Summer Robotics Camp: A Controlled Experiment to Increase Social Engagement Between Adolescents with ASD and their peers.” Institute for Scholarship in the Liberal Arts, University of Notre Dame (PI: J. Diehl)
- 2011-2013 **Arby’s Foundation (\$23,500)**. “Collaborative project on ecological validity of co-robot therapy.” (PIs – J. Diehl and J. Dunlap – The Madonna School)
- 2011 **International Conference Travel Award (\$1,960)**. “Cognitive and developmental factors in prosody comprehension in children with autism spectrum disorders.” Institute for Scholarship in the Liberal Arts, University of Notre Dame (PI: Diehl).
- 2010-2011 **Boler Family Foundation Grant (\$25,000)**. “Social Robot Therapy for Autism.” (PI: J.Diehl)
- 2010-2011 **NIH Indiana Clinical Translational Sciences Institutes (NIH RR025761) – Project Development Team Grant (\$19,984)**, “Enhancing Social Skills Interventions for Children with Autism through Interactive Robots.” (PI: J.Diehl).
- 2010-2011 **Rodney F. Ganey, Ph.D. Collaborative Community-Based Research Grant (\$7,000)**, “Using Interactive Robots to Scaffold Social Skills for Children with Autism” (Co PIs: J. Diehl, C. Crowell, M. Villano, K. Wier)
- 2010-2011 **Small Research and Creative Work Grant (\$917)**, Institute for Scholarship in the Liberal Arts, University of Notre Dame (PI: J. Diehl).

- 2009-2010 **Miscellaneous Research and Materials Grant (\$799)**, Institute for Scholarship in the Liberal Arts, University of Notre Dame (PI: J. Diehl)
- 2008-2009 **James Hudson Brown – Alexander Brown Coxe Postdoctoral Fellowship in the Medical Sciences (\$36,799)**, “The Neurobiology of Prosody Processing in Autism Spectrum Disorders”, Yale University School of Medicine, Child Study Center and Haskins Laboratories (Fellow: J. Diehl; Mentor: Ken Pugh, Ph.D.).
- 2007-2008 **Postdoctoral Fellowship, NIMH Research Training Program in Childhood Neuropsychiatric Disorders (\$36,799)**, Yale University Child Study Center and Haskins Laboratories (Fellow: J. Diehl; Mentors: Robert Schultz, Ph.D, Ken Pugh, Ph.D.)
- 2000 **Class of ’42 Horton/Elmer Fund Research Grant (\$500)**, “The Nature of the Language Disorder in Autism”, Princeton University
- 1998 **Martin Dale ’53 Summer Fellowship (\$3,000)**, Princeton University

### Mentored Student Grants, Fellowships, and Awards

- 2013 **Glynn Family Honors Program Undergraduate Research Grant (\$3,000)**, Faculty Mentor, “*Summer internship in the Laboratory For Understanding Neurodevelopment.*” Student – Teresa Gorman.
- 2013 **Glynn Family Honors Program Undergraduate Research Grant (\$3,000)**, Faculty Mentor, “*Mouse Models for Autism Spectrum Disorder.*” Student – Tara Crown.
- 2013 **Glynn Family Honors Program Undergraduate Research Grant (\$3,000)**, Faculty Mentor, “*The effect of a peer-mediated social skills intervention on anxiety reduction in Autism Spectrum Disorder.*” Student – Jane Beriont.
- 2013 **Undergraduate Research Opportunity Program Conference Presentation Grant (\$1500)**, Faculty Mentor, *International Meeting For Autism Research*, “*The Effect of Parent Expectations of Child Therapy Outcomes in Children with Autism.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Alyssa Dammann).
- 2013 **Undergraduate Research Opportunity Program Conference Presentation Grant (\$1500)**, Faculty Mentor, *International Meeting For Autism Research*, “*The Effect of Parent Expectations of Child Therapy Outcomes in Children with Autism.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – John Vernon).
- 2013 **Graduate Student Professional Development Award (\$800)**, Faculty Mentor, Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student - Karen Tang)
- 2013 **Undergraduate Research Opportunity Program, Senior Thesis Grant (\$2250)**, Faculty Mentor, “*Perceived Teacher Autonomy Support, Academic Self-Determination, and Postsecondary Education Expectancies in Transition-Age Students with Intellectual Disability and Autism Spectrum Disorder.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Elizabeth Klinepeter).
- 2012-2013 **Indiana Clincial-Translational Sciences Institute TL1 Program Predoctoral Fellowship, (NIH TL1 TR000162, A. Shekhar, PI; \$24,500)**, Faculty Mentor, “Developing and Validating a Noncontact Method for Detecting Real-Time Cardiac Pulse Rate in Individuals with ASD in Clinical Settings.” (Student – Matthew Pruitt).

- 2012 **John F. Santos Award for Distinctive Achievement in Psychology, (\$250)**, Faculty Mentor (Student – Nicole Shea).
- 2012 **Undergraduate Research Opportunity Program Summer Award (\$3,000)**, Faculty Mentor, “*Effect of parent expectations on parent participation in child therapy.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Alyssa Dammann).
- 2012 **Undergraduate Research Opportunity Program Summer Award (\$2,800)**, Faculty Mentor, “*The development of robotic movements in therapy for children with autism.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – John Vernon).
- 2012 **Undergraduate Research Opportunity Program Conference Presentation Grant**, Faculty Mentor, *International Meeting For Autism Research*, “*The effect of a co-robot therapist on repetitive behaviors during applied behavior analysis in individuals with autism spectrum disorders.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Elizabeth Klinepeter).
- 2012 **Undergraduate Research Opportunity Program Conference Presentation Grant**, Faculty Mentor, *International Meeting For Autism Research*, “*The use of prosodic and syntactic cues to understand intent in discourse by children with autism spectrum disorders.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Stephany Mazur).
- 2012 **Undergraduate Research Opportunity Program (\$720)**, Faculty Mentor, “*An interactive robot as an object of joint attention for children with ASD.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Megan Van Ness).
- 2012 **Undergraduate Research Opportunity Program (\$2,065)**, Faculty Mentor, “*Perceived autonomy support in children with autism spectrum disorders.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Nicole Shea).
- 2012 **Summer Indiana Internship Grant (\$3000)**, Faculty Mentor, St. Mary’s College Career Crossings (Student – Cecilia Gatto)
- 2012 **Student Internship Grant (\$3000)**, Faculty Mentor, University of Notre Dame Career Center (Student – Sarah Hale).
- 2012 **Student Internship Grant (\$2829.09)**, Faculty Mentor, University of Notre Dame Career Center (Student – Emily Nash).
- 2011-2012 **Undergraduate Research Opportunity Program (\$2,096)**, Faculty Mentor, “*Temperament and Pragmatic Ability in the Development of Social Anxiety in ASD.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Margaret Millea).
- 2011 **Learning Beyond the Classroom (\$1,500)**, Faculty Mentor, “*Peer-mediated interventions for children with autism.*” Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student – Nicole Shea).
- 2011 **Joseph F. Downs Memorial Fund Professional Development Award (\$750)**, Faculty Mentor, University of Notre Dame Graduate Studies Program, (Student – Karen Tang).
- 2011 **Graduate Student Professional Development Award (\$600)**, Faculty Mentor, Institute for Scholarship in the Liberal Arts, University of Notre Dame (Student - Karen Tang)

- 2011 **Undergraduate Library Research Award (\$500)**, Honorable Mention, Faculty Mentor. “*Review of Endpoints and Measurement Tools for Improvement in Autism Behavior.*” (Student – Erin Bolte)
- 2011 **Student Internship Grant (\$2410)**, Faculty Mentor, University of Notre Dame Career Center (Student - Stephany Mazur).
- 2011 **Summer Internship Grant (\$500)**, Faculty Mentor, Columbus Alumnae Club for St. Mary’s College. (Student – Katherine DiPiero)
- 2011 **Kaneb Center Outstanding Graduate Student Teacher/TA Award (\$100)**, Faculty Mentor. University of Notre Dame (Student – Elizabeth Planalp).

## RESEARCH INTERESTS

My research focuses on neurodevelopmental disorders, with an emphasis on autism spectrum disorder. In particular, am interested in understanding the language and communication deficits that characterize these disorders, and developing interventions that target these skills. My work adapts psycholinguistic and neurocognitive paradigms to measure ability and disability. I use techniques such as eye-gaze, eye-tracking, functional neuroimaging, and standardized diagnostic, cognitive, and neuropsychological assessment. Additionally, I am in the process of developing social skills interventions that integrate technology, such as robots and computers, into the treatment programs.

## PUBLICATIONS AND PRESENTATIONS

(\* denotes undergraduate student, \*\* denotes graduate student)

### Publications in Refereed Journals and Conference Proceedings

Bolte E.\* & **Diehl, J.J.** (2013). Measurement tools and target symptoms/skills used to assess treatment response in individuals with autism spectrum disorder. *Journal of Autism and Developmental Disorders, 43(11)*, 2491-2501. doi: 10.1007/s10803-013-1798-7.

**Diehl, J.J.**, & Paul, R. (2013). Acoustic and perceptual measurements of prosody production on the PEPS-C by children with autism. *Applied Psycholinguistics, 34*, 135-161. doi: 10.1017/S0142716411000646. PMID: PMC3223739.

Millea, M.A.\*, Shea, N.M.\*, & **Diehl, J.J.** (2013). Understanding the interaction of temperament and social skills in the development of social anxiety in children with autism spectrum disorders. *Autism – Open Access, S3(002)*, 1-7. doi: 10.4172/2165-7890.S3-002.

Shea, N.M.\*, Millea, M.A.\*, & **Diehl, J.J.** (2013). Perceived autonomy support in children with autism spectrum disorder. *Autism – Open Access, S3(001)*, 1-6. doi: 10.4172/2165-7890.S3-001.

Ritvo, E., Barnhill, J., Berckelaer-Onnes, I.A. van, Begeer, S., Beversdorf, D., Bitsika, V., Brereton, A., Bull, K., **Diehl, J.J.**, Fiard, D., Fuentes, J., Gillberg, C., Ghasiuddin, M., Guthrie, D., Harris, S., Hu, V., Mataix-Cols, D., Matson, J., Montgomery, J., Peterson, A, Ploog, B, Prior, M., Rinehart, N., Rojahn, J., Ritvo, R.A., Stoesz, B, Tonge, B., Van Bergeijk, Woodbury-Smith, M., Yoo, J.H..

- (2012). Postponing the proposed changes in DSM-5 for Autism Spectrum Disorder until new scientific evidence adequately supports them. *Journal of Autism and Developmental Disorders*, 42(9), 2021-2022. doi: 10.1007/s10803-012-1613-x.
- Diehl, J.J.**, & Paul, R. (2012). Acoustic differences in the imitation of prosodic patterns in children with autism spectrum disorders. *Research in Autism Spectrum Disorders*, 6(1), 123-134. doi: 10.1016/j.rasd.2011.03.012. PMID: PMC3223739.
- Diehl, J.J.**, Schmitt, L.\*, Crowell, C.R., & Villano, M. (2012). The clinical use of robots for children with autism spectrum disorders: A critical review. *Research in Autism Spectrum Disorders*, 6(1), 249-262. doi: 10.1016/j.rasd.2011.05.006. PMID: PMC3223958.
- Diehl, J.J.**, Wolf, J., Herlihy, L.\*, & Moller, A.C. (2011). Seeing red: Are colors a window into implicit societal conceptions about the autism spectrum? *Disability Studies Quarterly*, 31(3). <http://dsq-sds.org/article/view/1676/1595>.
- Villano, M., Crowell, C.R., Wier, K., Tang, K.\*\* , Thomas, B.\* , Shea, N.\* , Schmitt, L.M.\* , & **Diehl, J.J.** (2011). DOMER: A wizard of oz interface for using interactive robots to scaffold social skills for children with autism spectrum disorders. *Proceedings of the ACM/IEEE international conference on human-robot interaction*, Lausanne, Switzerland. 279-280. doi: 10.1145/1957656.1957770.
- Diehl, J.J.** & Paul, R. (2009). The assessment of prosodic disorders and neurological theories of prosody. *International Journal of Speech-Language Pathology*, 11, 287-292. doi: 10.1080/17549500902971887. PMID: PMC2941239
- Diehl, J.J.**, Watson, D., Bennetto, L., McDonough, J., & Gunlogson, C. (2009). An acoustic analysis of prosody in high-functioning autism. *Applied Psycholinguistics*, 30, 1-20. doi:10.1017/S0142716409090201
- Arnold, J.A., Bennetto, L., & **Diehl, J.J.** (2009). Reference production in young speakers with and without autism. *Cognition*, 110, 131-146. doi: 10.1080/01690960801920099. PMID: 19111285
- Diehl, J.J.**, Bennetto, L., Watson, D., Gunlogson, C., & McDonough, J. (2008). Resolving ambiguity: A psycholinguistic approach to prosody processing in high-functioning autism. *Brain and Language*, 106, 144-152. doi: 10.1016/j.bandl.2008.04.002. PMID: PMC2603133.
- Diehl, J.J.**, Bennetto, L., & Young, E.C. (2006). Story recall and narrative coherence of high-functioning children with autism spectrum disorders. *Journal of Abnormal Child Psychology*, 34, 83-98. doi: 10.1007/s10802-005-9003-x.
- Young, E.C., **Diehl, J.J.**, Morris, D., Hyman, S.L., & Bennetto, L. (2005). The use of two language tests to distinguish pragmatic language problems in children with autism spectrum disorders. *Language, Speech, and Hearing Services in Schools*, 36, 62-72. doi: 10.1044/0161-1461(2005/006).

**Book Chapters**

- Diehl, J.J.** (in prep). Clinical applications of speech technology for autism spectrum disorder. In A. Neustein & M. Kulshreshtha (Eds.), *Evaluating the Role of Speech Technology in Medical Case Management*. Boston: DeGruyter Publishing.
- Diehl, J.J.** & Valentino, K. (in prep). Autism Spectrum Disorder. To appear in *A Counselor's Guide to Treating and Diagnosing Children and Adolescents with DSM-5 Disorders*. Wiley Publishing.
- Diehl, J.J.**, Crowell, C.R., Villano, M., Wier, K., Tang, K.\*\*, & Riek, L. (in press). The clinical applications of robots in the diagnosis and treatment of Autism Spectrum Disorders (ASD). In V.B. Patel, V.R. Preedy, and C.R. Martin (Eds.), *A comprehensive guide to autism*. Springer Publishing.
- Diehl, J.J.**, Tang, K.\*\*, & Thomas, B.\* (2013). High-functioning autism (HFA). In F. Volkmar, R. Paul, K. Pelphrey, & M. D. Powers (Eds.), *Encyclopedia of autism spectrum disorders* (pp. 1504-1507). New York: Springer Publishing.
- Edelson, L. & **Diehl, J.J.** (2013). Prosody. In F. Volkmar, R. Paul, K. Pelphrey, & M. D. Powers (Eds.), *Encyclopedia of autism spectrum disorders* (pp. 2413-2417). New York: Springer Publishing.
- Diehl, J.J.** (2013). Narrative assessment. In F. Volkmar, R. Paul, K. Pelphrey, & M. D. Powers (Eds.), *Encyclopedia of autism spectrum disorders* (pp. 1972-1973). New York: Springer Publishing.
- Diehl, J.J.** (2013). Phrase length. In F. Volkmar, R. Paul, K. Pelphrey, & M. D. Powers (Eds.), *Encyclopedia of autism spectrum disorders* (pp. 2238). New York: Springer Publishing.
- Diehl, J.J.** (2013). Phrenology. In F. Volkmar, R. Paul, K. Pelphrey, & M. D. Powers (Eds.), *Encyclopedia of autism spectrum disorders* (pp. 2238). New York: Springer Publishing.
- Diehl, J.J.**, Frost, S.J., Mencl, W.E., & Pugh, K. (2011). Neuroimaging and the phonological deficit hypothesis. In D. Braze, S. Brady, and C. Fowler (Eds.) *Weighing Individual Differences in Reading: Theory and Evidence* (pp. 217-237). New York: Psychology Press.
- Diehl, J.J.** & Berkovits, L.\* (2010). Is prosody a diagnostic and cognitive bellwether of autism spectrum disorders? In A. Harrison (Ed.) *Speech Disorders: Causes, Treatments, and Social Effects* (pp. 159-176). New York: Nova Science Publishers, Inc.
- South, M., & **Diehl, J.J.** (2010). Neurobiology: fMRI. In E. Hollander, A. Kolevzon, and J. Coyle (Eds.) *Textbook of Autism Spectrum Disorders* (pp. 409-416). American Psychiatric Publishing: Arlington, VA.
- Palumbo, D., & **Diehl, J.J.** (2007). Managing attentional disorders. In Hunter & Donders (Eds.) *Pediatric Neuropsychology Interventions* (pp. 253-286). Cambridge, UK: Cambridge University Press.

### **Manuscripts Submitted/in Preparation**

**Diehl, J.J.**, Friedberg, C., Paul, R., & Snedeker, J. (submitted). The use of prosody during syntactic processing in children and adolescents with autism spectrum disorders. Manuscript under review.

**Diehl, J.J.**, Frost, S.J., Sherman, G., Mencl, W.E., Kurian, A.\*, Molfese, P., Landi, N., Preseton, J., Soldan, A., Fulbright, R.K., Rueckl, J., Seidenberg, M.S. & Pugh, K.R. (submitted). Neural correlates of visual processing advantages in adolescents with reading disability. Manuscript under review.

**Diehl, J.J.**, Wier, K., Tang, K., Villano, M., & Crowell, C. (in prep). The integration of robot into Applied Behavior Analysis therapy for Autism Spectrum Disorders: A case study. Manuscript in preparation.

**Diehl, J.J.**, Bennetto, L., & Arnold, J.A (in prep). Story planning and coherence in narratives by children with autism. Manuscript in preparation.

Kaboski, J., **Diehl, J.J.**, & Valentino, K. (in prep). Resilience in Autism Spectrum Disorder. Manuscript in preparation.

Crowell, C.R., Deska, C., Villano, M.A., **Diehl, J.J.**, & McGinnis, K. (in prep). Factors influencing the anthropomorphism of robots. Manuscript under review.

Tang, K.\*\*, **Diehl, J.J.**, Schatz, J. (in prep). The influence of adaptive behavior functioning of individuals with autism spectrum disorders on parental adherence to treatment recommendations. Manuscript in preparation.

Van Ness, M.\*, **Diehl, J.J.**, Crowell, C.R., Tang, K.\*\*, Villano, M., & Wier, K. (in prep). An Interactive Robot Co-therapist as an Object of Joint Attention for Children with Autism Spectrum Disorder. Manuscript in preparation.

### **Conference Presentations**

Musolff, J.A., Portenier, D.C., Crowell, C.R., Villano, M., & **Diehl, J.J.** (2013, July). Using an interactive robot to scaffold social skills for children with autism spectrum disorder. Presented at the National Autism Conference, State College, PA.

**Diehl, J.J.**, Crowell, C.R., Villano, M., Wier, K., Tang, K.\*\*, Van Ness, M.\*, Flores, J.\*, Freeman, T.\*, Klinepeter, E.\*, Matthews, S.\*, Mazur, S.\*, & Shea, N.\* (2013, May). Humanoid robots as co-therapists in ABA therapy for children with autism spectrum disorder. Presented at the International Meeting for Autism Research in San Sebastián, Spain.

Dammann, A.\*, Tang, K.\*\*, & Diehl, J.J. (2013, May). Effect of parent expectancies of child therapy on perceived therapy outcomes in children with autism spectrum disorder. Presented at the International Meeting for Autism Research in San Sebastián, Spain.



- Shea, N.\*, Millea, M.M.\*, Van Ness, M.\*, Tang, K.\*\*, Mazur, S.\*, & **Diehl, J.J.** (2013, May). Perceived autonomy support in children with autism spectrum disorder. Presented at the International Meeting for Autism Research in San Sebastián, Spain.
- Tang, K.\*\*, Dammann, A.\*, Ryan, K.\*, & **Diehl, J.J.** (2013, May). Influence of adaptive behavior functioning of individuals with autism spectrum disorder on parental adherence to treatment recommendations. Presented at the International Meeting for Autism Research in San Sebastián, Spain.
- Vernon, J.\*, Kumar, J.\*, Villano, M., Crowell, C.R., Wier, K., Tang, K.\*\*, Zona, J., Portenier, D., & **Diehl, J.J.** (2013, May). NAO-BASE: A multimedia database to support socially-assistive robotics for individuals with autism spectrum disorder. Presented at the International Meeting for Autism Research in San Sebastián, Spain.
- Klinepeter, E.A.\*, & **Diehl, J.J.** (2013, May). Perceived Teacher Autonomy Support, Academic Self-Determination, and Postsecondary Education Expectations in Transition-Age Students with Intellectual Disability and Autism Spectrum Disorder. Presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, IL.
- Klinepeter, E.A.\*, Shea, N.M.\*, Thomas, B.\*, Van Ness, M.\*, Kumar, J.\*, Mazur, S.L.\*, Millea, M.A.\*, Wier, K., Tang, K.\*\*, Villano, M., Crowell, C.R., & **Diehl, J.J.** (2012, May). The effect of a co-robot therapist on repetitive behaviors during applied behavior analysis in individuals with autism spectrum disorders. Presented at the International Meeting For Autism Research, Toronto, Canada.
- Mazur, S.\*, **Diehl, J.J.**, & Bennetto L. (2012, May). The use of prosodic and syntactic cues to understand intent in discourse by children with autism spectrum disorders. Presented at the International Meeting For Autism Research, Toronto, Canada.
- Tang, K.\*\*, Dammann, A.\*, Nash, E.\*, DiPiero, K.\*, Uhland, K.\*, **Diehl, J.J.** (2012, May). Influence of symptom severity and adaptive behavior functioning of children with autism spectrum disorders on parental adherence to treatment recommendations. Presented at the International Meeting For Autism Research, Toronto, Canada.
- DiPiero, K\*., Stoddart, R., **Diehl, J.J.** (2012, May). Improvement in Eye Contact for Children with Autism Spectrum Disorder: Robot or Human Intervention? Presented at the Annual Meeting for the Midwestern Psychological Association, Chicago, IL.
- Diehl, J.J.** (2012, March). Is prosody a bellwether behavior of the autism spectrum? Presented at the Conference on Individual Linguistic Variation, with a Special Focus on the Autism Spectrum. Ottawa, Canada.
- Moskal, J.R., Burgdorf, J.S., Crowell, C.R., **Diehl, J.J.**, Brudzynski, S.M., & Pankseep, J. (2011, November). A novel NMDA receptor glycine-site partial agonist, GLYX-13, with therapeutic potential for the treatment of autism. Presented at Neuroscience 2011, the annual meeting for the Society for Neuroscience, San Diego, CA.
- Diehl, J.J.**, Snedeker, J., Paul, R., & Tang, K.\*\* (2011, July). Cognitive and developmental factors in prosody comprehension in children with autism spectrum disorders. Symposium Title: Use of contextual information for speech and language processing in children with autism spectrum

- disorders: What eye-tracking measures can show us. Presented at the 12<sup>th</sup> International Congress for the Study of Child Language, Montreal, Canada.
- Diehl, J.J.**, Preston, J., & Bennetto, L. (2011, May). Diadochokinetic rate and accuracy in autism spectrum disorders. Presented at the International Meeting For Autism Research, San Diego, CA.
- Tang, K.\*\* , **Diehl, J.J.**, Villano, M., Wier, K., Thomas, B.\* , Shea, N.\* , DuBois, Z.\* , Millea, M.\* , Uhland, K.\* , & Crowell, C.R. (2011, May). Enhancing empirically-supported treatments for autism spectrum disorders: A case study using an interactive robot. Presented at the International Meeting For Autism Research, San Diego, CA.
- Thomas, B.\* , Stoddart, R., Nuttal, A.\*\* , & **Diehl, J.J.** (2011, May). Sibling relationship quality and the social skills of children with autism. Presented at the International Meeting For Autism Research, San Diego, CA.
- Diehl, J.J.** & Paul, R. (2010, May). Acoustic differences in the imitation of prosodic patterns by children with autism spectrum disorders. Presented at the International Meeting for Autism Research, Philadelphia, PA.
- Snedeker, J., **Diehl, J.J.**, & Paul, R. (2010, March). Prosody, parsing, and perseveration in high-functioning children with autism. Presented at the CUNY Conference on Human Sentence Processing, New York, NY.
- Diehl, J.J.**, Snedeker, J., & Paul, R. (2009, May). Eye-tracking as a measure of online prosody processing in autism spectrum disorders. Symposium title: “Psycholinguistic studies in autism spectrum disorders.” Presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Arnold, J. E., Nadig, A., Bennetto, L., & **Diehl, J.J.** (2009, March). Pronoun comprehension and production in children with and without autism. Presented at the CUNY conference on human sentence processing, Chapel Hill, NC.
- Diehl, J.J.**, Paul, R. (2008, May). Acoustic and perceptual measurements of prosody production errors on the PEPS-C by children with autism. Presented at the International Meeting For Autism Research, London, UK.
- Kim, D.\* , Newland, E.\* , Paul, R., Scassellati, B., & **Diehl, J.J.** (2008, May). A robotic therapist for affective prosody in high-functioning autistic children. Paper presented at the International Meeting for Autism Research, London, UK.
- Diehl, J.J.**, Bennetto, L., Watson, D., Gunlogson, C. McDonough, J., & Watson, J.R.\* (2007, April). Resolving ambiguity: The integration of prosody and syntax by individuals with high-functioning autism. Presented at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Diehl, J.J.**, Watson, D., McDonough, J., Gunlogson, C., Young, E.C., & Bennetto, L. (2005, May). Acoustic and perceptual analysis of prosody in high-functioning autism. Presented at the International Meeting For Autism Research, Boston, MA.

- Diehl, J.J.**, Bennetto, L., & Arnold, J.A. (2004, May). Local versus global planning in narratives by children with autism. Presented at the International Meeting For Autism Research, Sacramento, CA.
- Diehl, J.J.**, Donahue, M., Gallagher, C.A., Henderson, H.M., Iyenger, A., Peterson, C.R., Scutella, K.S., & Story, M.M. (2003, May). Caregivers of children with special health care needs: Care coordination and burden of care. Presented at the Psychiatry and Mental Health Day Collier Research Poster Session, Rochester, NY.
- Diehl, J.J.**, Bennetto, L., & Young, E.C. (2003, April). A comprehensive analysis of narratives in children with high-functioning autism. Presented at the Biennial Meeting of the Society for Research in Child Development, Tampa, FL.
- Diehl, J.J.**, Bennetto, L., & Young, E.C. (2002, November). Memory for narratives in children with autism spectrum disorders. Presented at the International Meeting For Autism Research, Orlando, FL.
- Young, E.C., **Diehl, J.J.**, Hyman, S.L., & Morris, D. (2002, November). Two standardized tests of pragmatics distinguish children with ASDs from controls matched for language fundamentals. Presented at the International Meeting for Autism Research, Orlando, FL.

## PRESS

*Television:* PBS, NBC, MSNBC, NHK (Japan), Versus Network, WNIT  
*Magazines, Newspapers, Radio, and Newsletters:* Wall Street Journal, Times of India, ABC Radio, autismspeaks.org, HealthDay, WebMD.com, Family Center on Technology and Disability Newsletter, miChild Magazine, Open Minds Weekly, Science360.com, South Bend Tribune, Omaha World Herald, Erie Times, Simons Foundation (SFARI.org)ACM Tech News, Autism Spectrum News

*Other:* One of six presentations (of over 1000) chosen to be highlighted at the 2013 International Meeting For Autism Research press conference in San Sebastián, Spain.

## SELECTED LECTURES AND ADDRESSES

- 2014 (Scheduled – April 23, 2014) **Indiana Speech-Language-Hearing Association Conference**, Indianapolis, IN. *“Using Innovation and Good Science to Improve Treatments for Individuals with Autism.”*
- 2013 **Rockland County Autism Symposium, Autism Science Foundation**, Pearl River, NY. *“Using Technology to Improve Communication in ASD: What Humans Can Learn from Robots.”*
- 2013 **Memorial Hospital**, Healthy Babies Meeting. *“Autism Spectrum Disorder: Early Identification and the First 100 Days.”*
- 2013 **Barber National Institute**, Erie, PA. *“Robots and Autism: Impact, Potential, and the Future. A Research Update by Joshua Diehl, Ph.D.”*
- 2013 **Sonya Ansari Center for Autism** (community talk), South Bend, IN. *“The current state of autism research: 2013.”*

- 2013 **International Meeting For Autism Research**, Press Conference, San Sebastián, Spain. *“Humanoid robots as co-therapists in ABA therapy for children with autism spectrum disorder.”*
- 2013 **WNIT**, South Bend IN, Guest Panelist. *“Ask the Expert: Autism.”*
- 2012 **Portage District Library**, Portage, MI, Grandmother and CIG Endowment Fund Guest Speaker. *“Autism Spectrum Disorder.”*
- 2012 **Portage Central High School**, Portage, MI. *“Autism.”*
- 2012 **University of Notre Dame**, Notre Dame, IN, New Faculty Orientation Panel. *“Third and Fourth Year Panel: Experiences and Lessons Learned.”*
- 2012 **Sonya Ansari Center for Autism** (community talk), South Bend, IN. *“The current state of autism research: 2012.”*
- 2012 **The Ohio State University – Marion**, Department of Psychology. *“Autism Spectrum Disorders: Innovations in Treatment.”*
- 2012 **Social Sciences and Humanities Research Council of Canada**. Conference on sources of individual linguistic variation, with special attention to the autism spectrum, Ottawa, Canada. *“Is prosody a bellwether behavior of the autism spectrum?”* (March, 2012)
- 2012 **Goshen Asperger’s Parent Group** (community talk), Goshen, IN. *“Evaluating autism treatments.”*
- 2011 **Michigan State University**, Department of Family and Child Ecology. *“Siblings of individuals with disabilities.”*
- 2011 **Purdue University**, Department of Technology. IEEE Computational Intelligence Society. *“The use of humanoid robots in therapy for children with autism.”*
- 2011 **Sonya Ansari Center for Autism** (community talk), South Bend, IN. *“The current state of autism research: Reflections from IMFAR.”*
- 2011 **Northern Illinois University**, Department of Psychology – *“The Future is Nao: Using technology to improve communication in autism.”*
- 2011 **Barber National Institute**, Erie PA. *“Robots and research: Using the latest technology in autism research.”*
- 2011 **University of Notre Dame**, IN, Ms. Wizard Event,. *“Robots? The future is Nao.”*
- 2011 **Ingham Intermediate School District**, Parent Advisory Board, Mason, MI. *“Need a patron saint? A mirror will suffice.”*
- 2011 **Midwest Autism Consortium**, University of Illinois-Chicago, Chicago, IL. *“More than words: Prosody processing in ASD.”*
- 2011 **Hillsdale College**, Mtg of Dept. of Human Services Workers, Hillsdale, MI. *“Autism in Hillsdale: Causes, diagnosis, treatment, and community issues.”*
- 2011 **St. Mary’s College**, Notre Dame, IN, Disabilities Week. *“Autism Spectrum Disorders.”*
- 2010 **Goshen Asperger’s Parent Group** (community talk), Goshen, IN. *“ASD research, services, and resources at Notre Dame.”*
- 2010 **Indiana Clinical-Translational Sciences Retreat**, Notre Dame, IN. *“The use of interactive robots to augment therapy for children with autism.”*
- 2010 **University of Missouri**, Department of Psychology. *“Understanding (and improving) social-communication in autism spectrum disorders.”*
- 2010 **Sonya Ansari Center for Autism** (community talk), South Bend, IN. *“Understanding (and improving) social communication in autism spectrum disorders.”*
- 2010 **St. Mary’s College**, Notre Dame, IN. Disabilities Awareness Week. *“Autism spectrum disorders.”*
- 2010 **Science Café** (community talk), South Bend, IN. *“Solving the autism puzzle.”*

- 2009 **Michigan State University**, Department of Family and Child Ecology. “*Siblings of individuals with disabilities.*”
- 2009 **University of Houston**, Department of Psychology. “*More than words: What prosody tells us about autism.*”
- 2009 **Michigan State University**, Department of Linguistics. “*Prosody processing in autism spectrum disorders.*”
- 2009 **University of Notre Dame**, Department of Psychology. “*More than words: What prosody tells us about autism.*”
- 2009 **Michigan State University**, Department of Communicative Sciences and Disorders. “*More than words: What tone of voice tells us about autism.*”
- 2009 **Purdue University**, Department of Speech, Language, and Hearing Sciences. “*More than words: What prosody tells us about autism.*”
- 2008 **College of the Holy Cross**, Department of Psychology. “*More than words: What tone of voice tells us about autism.*”
- 2008 **Johns Hopkins University**, Department of Neurology. “*More than words: Prosodic deficits in autism.*”
- 2008 **Yale University**, Yale Child Study Center, Autism Science Meeting. “*Seeing red: Are colors a window into implicit societal conceptions about the autism spectrum?*”
- 2008 **Haskins Laboratories**, New Haven, CT. “*Prosody processing and production in autism spectrum disorders.*”
- 2007 **Yale University**, Yale Child Study Center, Autism Science Meeting. “*Prosody processing and production in autism.*”
- 2007 **University of Rochester School of Medicine**, Department of Psychiatry. “*Prosody processing and production in autism.*”
- 2007 **Yale University**, Yale Child Study Center. “*Prosody performance in high-functioning autism.*”

## TEACHING

### Courses Taught - Current

- 2014- **Autism Practicum** (Undergraduate), Department of Psychology, University of Notre Dame
- 2014- **Practicum in Developmental Disabilities** (Undergraduate), Department of Psychology, University of Notre Dame
- 2011- **Neurodevelopmental Disorders** (Undergraduate, 50 students), Department of Psychology, University of Notre Dame  
 - *Note: Course has ranked at least in the top 20% of all University classes in student rankings of intellectual challenge for the past four semesters, and for two of the past three semesters in the overall course rating and overall effectiveness of teaching.*
- 2010- **Childhood Disorders and Neurodevelopmental Disabilities** (Graduate), Department of Psychology, University of Notre Dame
- 2010- **Research Lab on Autism Spectrum Disorder** (Undergraduate), University of Notre Dame

### Courses Taught - Previous

- 2012 **Asperger Syndrome: The Short Life and Death of a Diagnosis**  
(Undergraduate Upper Level Seminar, Department of Psychology, University of Notre Dame)  
- Note: Course ranked in top 20% in student rankings of all University classes in overall course rating and intellectual challenge, and top 10% in overall effectiveness of teaching in the first semester it was taught (Fall, 2012)
- 2010-2012 **Research Lab on Reading Disorders** (Undergraduate), University of Notre Dame, Department of Psychology
- 2009- 2011 **Introduction to Psychology** (Undergraduate, 80-155 students), University of Notre Dame Department of Psychology  
- Note: Course ranked in top 20% in student overall course ratings for two of the past three semesters, in student ratings of effectiveness of teaching for three of the past four semesters, and in intellectual challenge in the most recent semester
- 2009 **Special Studies on Reading Disorders** (Undergraduate), University of Notre Dame, Department of Psychology
- 2001-2007 **Independent Study and Research in Developmental Neuropsychology** (Undergraduate), University of Rochester, Department of Clinical and Social Sciences in Psychology
- 2001-2005 **Practicum in Developmental Disabilities** (Undergraduate, 4 non-consecutive semesters), University of Rochester, Department of Clinical and Social Sciences in Psychology

### **Most Recent Course Evaluation Numbers**

Spring 2013	<b>Neurodevelopmental Disorders (Undergraduate)</b>	
	Overall Composite Score	4.6/5.0 (top 30%)
	Overall Effectiveness of Teaching	4.6/5.0 (top 30%)
	Degree of Intellectual Challenge	4.5/5.0 (top 10%)
	Average Self-Reported Attendance	99%
Fall 2012	<b>Asperger Syndrome: The Short Life and Death of a Dx (Undergraduate)</b>	
	Overall Composite Score	4.7/5.0 (top 20%)
	Overall Effectiveness of Teaching	4.9/5.0 (top 10%)
	Degree of Intellectual Challenge	4.6/5.0 (top 10%)
	Average Self-Reported Attendance	97%
Fall 2011	<b>Introduction to Psychology (Undergraduate)</b>	
	Overall Composite Score	4.3/5.0
	Overall Effectiveness of Teaching	4.4/5.0
	Degree of Intellectual Challenge	3.9/5.0
	Average Self-Reported Attendance	93%
Fall 2010	<b>Childhood Disorders and Neurodevelopmental Disabilities (Graduate)</b>	
	Overall Composite Score	4.1/5.0
	Overall Organization of Course	4.1/5.0
	Degree of Intellectual Challenge	4.0/5.0
	Average Self-Reported Attendance	100%

### **Courses TAed**

- 2001 **Abnormal Psychology** (Undergraduate), University of Rochester, Department of Clinical and Social Sciences in Psychology
- 2000 **Psychology of Gender** (Undergraduate), University of Rochester, Department of Clinical and Social Sciences in Psychology

### **Guest Lectures**

- Autism Spectrum Disorder (Undergraduate, Graduate, Postdoctoral)
- Developmental Disabilities (Undergraduate, Graduate)
- Disability in Pop Culture (Undergraduate)
- Gender Issues in Developmental Disabilities (Undergraduate)
- Introduction to Research for Freshman (Undergraduate)
- Navigating the Job Market (Graduate, Postdoctoral)
- Neuropsychological Assessment (Undergraduate)
- Psychology Proseminar (Undergraduate)
- Securing Funding from Private Foundations (Postdoctoral)
- Siblings of Individuals with Developmental Disabilities (Undergraduate)
- Technology and Autism (Graduate)
- Technology and Children with Developmental and Learning Disabilities (Undergraduate)

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- Technology and Children with Developmental and Learning Disabilities (Undergraduate)

## **DEPARTMENT, CAMPUS, AND COMMUNITY INVOLVEMENT**

- 2013- **Advisory Board**, *Green Bridge Growers*
- 2013 **Judge**, *Siemens Math, Science, and Technology Competition*.
- 2012- **Faculty Advisor**, *Super Sibs*, University of Notre Dame
- 2012 **Member**, University of Notre Dame Hesburgh Library Focus Group
- 2011-2012 **Elected Member**, *College of Arts and Letters Research Council*, University of Notre Dame
- 2011 **Reviewer**, *Undergraduate Library Research Award*, University of Notre Dame
- 2010- **Fellow**, *Institute for Educational Initiatives*, University of Notre Dame
- 2010-2013 **Elected Member**, *College of Arts and Letters College Council*, University of Notre Dame
- 2010- **Faculty Member**, *Disability Studies Forum*, University of Notre Dame
- 2009- **Faculty Advisor**, *Special Friends*, University of Notre Dame
- 2001-2006 **Graduate Head Resident**, Office for Residential Life, University of Rochester

**Graduate First Year, Master’s Thesis, and Dissertation Supervision**

- 2011 First Year Project, Karen Tang – “Parental Involvement in Interventions for Children with Autism Spectrum Disorders”
- 2012 Master’s Thesis, Karen Tang – “The Role of Individual and Familial Factors on Parental Adherence to Treatment Recommendations for Individuals with Autism Spectrum Disorders”
- 2013 Dissertation (Proposal), Matthew Pruitt – “Improved Processing of Human Affective Behavior for Detection of Salient Events.”

**Undergraduate Senior Thesis or Honors Thesis Supervision**

- 2014 Jane Beriont, Tara Crown (in progress)
- 2013 Elizabeth Klinepeter, Department of Psychology Senior Honors Thesis, “Perceived Teacher Autonomy Support, Academic Self-Determination, and Postsecondary Education Expectancies in Transition-Age Students with Intellectual Disability and Autism Spectrum Disorder.”
- 2013 Alyssa Dammann, Department of Psychology Senior Thesis, “Effect of Parent Expectations of Child Therapy on Perceived Therapy Outcomes in Children with Autism”
- 2012 Erin Bolte, Glynn Family Honors Program Senior Honors Thesis. “Review of target symptoms and measurement tools for intervention outcomes in individuals with autism spectrum disorders.”
- 2012 Margaret Millea, Department of Psychology Senior Honors Thesis – “Understanding the role of temperament in the development of social anxiety in children with autism spectrum disorders.”
- 2012 Nicole Shea, Department of Psychology Senior Honors Thesis – “Perceived autonomy support in children with autism spectrum disorders.”
- 2012 Megan Van Ness, Department of Psychology Senior Honors Thesis – “An Interactive Robot Co-therapist as an Object of Joint Attention for Children with Autism.”

**Master’s, Dissertation, and Prelim Committees**

- 2010 Master’s Thesis Committee – Paul Stey
- 2010 Prelim Committee – Ann Flies-Johnson
- 2010 Dissertation Committee (Outside Chair) – Jody Peters
- 2011 Master’s Thesis Committee – Meg Trucano
- 2011 Dissertation Committee – Ann Flies-Johnson
- 2011 Oral Candidacy Exam (Outside Chair) – Jessica Lumsden
- 2011 Dissertation Committee – Andrea Christensen
- 2012 Master’s Thesis Committee – Michelle Comas
- 2013 Dissertation Committee – Sara Fulmer
- 2013 Dissertation Committee – Christine Guasto Steeger

**Department Committees**

- Undergraduate Studies Committee
- Website Strategic Planning Committee



## PROFESSIONAL ACTIVITIES

Associate Editor, *Journal of Autism and Developmental Disorders* (2012-current)

Editorial board, *Journal of Autism and Developmental Disorders* (2010-2012)

Editorial board, *Encyclopedia of Autism Spectrum Disorders*

Grant reviewer, *Economic and Social Research Council*

Grant reviewer, *Israel Science Foundation*

Ad hoc reviewer: *Applied Psycholinguistics, Autism-International Journal of Research and Practice, Autism Open Access, Autism Research, Cognition, Developmental Psychology, Development and Psychopathology, International Journal of Language and Communication Disorders, International Journal of Speech-Language Pathology, Journal of Experimental Psychology: Human Perception and Performance, Journal of Human-Robot Interaction, Journal of Neurodevelopmental Disabilities, Journal of Speech, Language, and Hearing Research, Language, Speech, and Hearing Services in Schools, Language and Cognitive Processes, Psychological Medicine, Psychological Science, Research in Developmental Disabilities*

Professional Organization Affiliations

*American Association on Intellectual and Developmental Disabilities, Association for Psychological Science, American Psychological Association, International Association for the Study of Child Language, International Society for Autism Research, Society for Research in Child Development*