

## CURRICULUM VITAE

Caitlin M. Hudac

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April 25, 2018

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## DEGREES AND EDUCATION

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Ph.D. in Psychology	University of Nebraska, Lincoln (Lincoln, NE)	2014
B.A. in Human Development	University of Chicago (Chicago, IL)	2005

## FACULTY APPOINTMENTS

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Assistant Professor, Department of Psychology, University of Alabama	August 2019
Assistant Professor, Center for Youth Development and Intervention, University of Alabama	August 2019
Adjunct Faculty, Department of Psychology, University of Alabama	April 2019

## RESEARCH AND PROFESSIONAL EXPERIENCE

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Research Scientist	Present
Bernier Lab, University of Washington	
Senior Post-doctoral Fellow (PIs: Sara Jane Webb, Raphael Bernier)	2014-2018
Psychophysiology and Behavioral Systems Lab, University of Washington	
Graduate Research Assistant (PI: Dennis Molfese)	2010-2014
Developmental Brain Laboratory, University of Nebraska-Lincoln	
Research Associate (PI: Kevin Pelphrey)	2008-2010
Child Neuroscience Laboratory, Yale Child Study Center	
Laboratory Manager (PI: Kevin Pelphrey)	2007-2008
Laboratory for Developmental Cognitive Neuroscience, Carnegie Mellon University	
Milieu Therapist	2005-2007
Sonia Shankman Orthogenic School, University of Chicago	

## AWARDS & FELLOWSHIPS

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Theodore Tjossem Postdoctoral Travel Award, 50 <sup>th</sup> Annual Gatlinburg Conference	2017
Top Oral Presentation, University of Washington Postdoctoral Association Research Symposium	2016
Dean's Fellowship, University of Nebraska-Lincoln	2014
Dean's Fellowship, University of Nebraska-Lincoln	2013
Fellowship, National Institute of Health AFNI Bootcamp (Director: Robert Cox)	2012
Fellowship, University of Nebraska-Lincoln Spatio-temporal workshop (Directors: Andrew Finley; Sudipto Banerjee)	2012
Fellowship, Ruhr-Universität Bochum (Bochum, Germany) Summer Institute on Neuronal Dynamics Approaches to Cognitive Robotics	2012
Fellowship, University of Maryland (College Park, MD) Summer Institute on Social Development Neuroscience	2012
Advancement of Neuro-Optometric Rehabilitation Award	2012
Fellowship, Martinos Center for Biomedical Imaging Multi-Modal 5-Day Intensive: Active Introduction to EEG/MEG, fMRI, High-Resolution MR and fMRI, NIRS, PET, and TMS. (Directed by Robert Savoy & Bruce Rosen)	2010

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Fellowship, Yale Child Study Center Summer Institute on Autism Spectrum Disorders.  
(Directed by Ami Klin & Fred Volkmar)

2009

### COMPLETED GRANTS & SUPPORT

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Travel Award, Office of Postdoctoral Affairs, University of Washington	2017
RAC Research Funding, Department of Psychology, University of Nebraska-Lincoln	2013
Warden Funds Travel Grant, Department of Psychology, University of Nebraska-Lincoln	2010-2014
National Science Foundation (NSF) Graduate Research Fellowship, Honorable Mention	2010

### PEER-REVIEWED PUBLICATIONS – Organized by topic

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#### Contribution #1: Neural substrates and mechanisms of social cognition in typical development

1. **Hudac, C.M.**, Pospisil, J.W., & Sommerville, J.A. (in revision). *Infant neural correlates of fairness expectations*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
2. **Hudac, C.M.**, Schutte, A.R., Webb, S.J., & Sommerville, J.A. (under review). *Infant encoding of violations of expectations: Evidence from event-related potentials*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
3. **Hudac, C.M.**, Naples, A., DesChamps, T.D., Coffman, M.C., Kresse, A., Ward, T., Mukerji, C., Aaronson, B., Faja, S., McPartland, J., & Bernier, R.A. (under review). *Modeling effective connectivity of face processing in youth and adults*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
4. Cortesa, C.S., **Hudac, C.M.**, & Molfese, D.L. (under review). *Dynamic effects of habituation and novelty detection on newborn event-related potentials*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
5. **Hudac, C.M.** (2018). Rapid dynamic modulation of ostracism neural responses following social priming. *Social Neuroscience*.
6. Skinner, A.S. & **Hudac, C.M.** (2017) "Yuck, you disgust me!" Affective bias against interracial couples. *Journal of Experimental Social Psychology*, 68, 68-77.
7. Nolte, T., Bolling, D.Z., **Hudac, C.M.**, Fonagy, P., Mayes, L., & Pelphrey, K.A. (2013). Brain mechanisms underlying the impact of attachment-related stress on social cognition. *Frontiers in Human Neuroscience*, 7:816. doi: 10.3389/fnhum.2013.00816
8. Nolte, T., **Hudac, C.M.**, Mayes, L.C., Fonagy, P., Blatt, S.J., Pelphrey, K. (2010). The Effect of Attachment-Related Stress on the Capacity to Mentalize: An Fmri Investigation of the Biobehavioral Switch Model. *Journal of American Psychoanalytic Association*, 58, 3, 566-573.
9. Vander Wyk, B.C., Ramsay, G.J., **Hudac, C.M.**, Jones, W., Lin, D., Klin, A., & Pelphrey, K.A. (2010). Cortical integration of audio-visual information. *Brain and Cognition*, 74, 97-106.
10. Vander, Wyk, B.C., **Hudac, C.M.**, Carter, E.J., Sobel, D.M., & Pelphrey, K.A. (2009). Action understanding in the superior temporal sulcus region. *Psychological Science*, 20, 6, 771-777.

#### Contribution #2: Neural substrates and mechanisms of sociocognitive processes in ASD

11. **Hudac, C.M.**, DesChamps, T.D., Arnett, A.B., Cairney, B.E., Ma, R., Webb, S.J., & Bernier, R.A. (2018). Early enhanced processing and delayed habituation to deviance sounds in autism spectrum disorder. *Brain and Cognition*.
12. Arnett, A.B., **Hudac, C.M.**, DesChamps, T.D., Cairney, B.E., Gerdtts, J., Wallace, A.S., Bernier, R.A., & Webb, S.J. (in press). Auditory perception is associated with implicit language learning and receptive language ability in autism spectrum disorder. *Brain and Language*.
13. **Hudac, C.M.**, Santhosh, M., Celerian, C., Chung, K-M., Jung, W., & Webb, S.J. (under review) *The role of racial and developmental experience in emotional adaptive coding*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.

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14. **Hudac, C.M.**, Cortesa, C.S. & Cress, C.J. (under review) *Newborn brain markers associated with identified developmental disabilities at 3 years*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
15. Pelphrey, K.A., Shultz, S., **Hudac, C.M.**, & Vander Wyk, B.C. (2011). Research Review: Constraining Heterogeneity: The social brain and its development in autism. *Journal of Child Psychology and Psychiatry*. doi: 10.1111/j.1469-7610.2010.02349.x
16. Pitskel, N.B., Bolling, D.Z., **Hudac, C.M.**, Lantz, S.D., Minshew, N.J., Vander Wyk, B.C., & Pelphrey, K.P. (2011). Brain mechanisms for processing direct and averted gaze in individuals with autism. *Journal of Autism and Developmental Disorders*. doi: 10.1007/s10803-011-1197-x.
17. Kaiser, M. D., **Hudac, C. M.**, Shultz, S., Lee, S., Cheung, C., Berken, A. M., Deen, B., Pitskel, N. B., Sugrue, D. R., Voos, A. C., Saulnier, C. A., Ventola, P., Wolf, J.M., Klin, A., Vander Wyk, B. C., & Pelphrey, K. A. (2010). Neural signatures of autism. *Proceedings of the National Academy of Sciences*, 107, 49, 21223-21228.
18. Perlman, S.B., **Hudac, C.M.**, Pegors, T., Minshew, N.J., & Pelphrey, K.A. (2010). Experimental manipulation of face-evoked activity in the fusiform gyrus of individuals with autism. *Social Neuroscience*. 1747-1927.

### Contribution #3: Phenotype-Genotype relationships of ASD and other neurodevelopmental disorders

19. **Hudac, C.M.**, DesChamps, T.D., Cairney, B.E., Diciscio, A., Wallace, A.S., Taylor, C.M., Hoekzema, K., Turner, T.N., Troiani, V., Webb, S.J., Sanders, S.J. Eichler, E.E., & Bernier, R.A. (under review). *Divergent dynamic neural patterns of attention associated with disruptive SCN2A variants*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
20. **Hudac, C.M.\***, Beighley, J.S.\* , Arnett, A.B., Peterson, J.L., Gerdts, J., Wallace, A.S., Mefford, H., Hoekzema, K., Turner, T.N., O'Roak, B.J., Eichler, E.E., & Bernier, R.A. (under review). *Clinical and behavioral phenotypes of carriers of mutations in CHD8 or its conserved target genes*. Preprint available at <http://faculty.washington.edu/chudac/pubs/preprints/html>.
21. Earl, R.K., Gerdts, J., Turner, T.N., **Hudac, C.M.**, Mefford, H.C., Kvarnung, M., Nordenskold, M., Lindstrand, A., Nordgren, A., Anderlid, B-M., Mannik, K., Peeters, H., Sley, Y., Romano, C., Avola, E., Vasta, A., Verbeek, N.E., Gecz, J., Eichler, E.E., & Bernier, R.A. (under review). *Insights into the core clinical phenotype and early developmental profile of disruptive CHD8 variants*.
22. Luhrs, K.\* , Ward, T.\* , **Hudac, C.M.**, Gerdts, J., Stessman, H., Eichler, E.E., & Bernier, R.A. (2017). Familial rates of psychiatric disorders in children with autism spectrum disorders identified with genetic mutations. *Autism Research and Treatment*. Vol 2017, Article ID 9371964, doi:10.1155/2017/9371964
23. Earl, R.K., Turner, T.N., Mefford, H.C., **Hudac, C.M.**, Gerdts, J., Eichler, E.E., & Bernier, R.A. (2017). Clinical phenotype of DYRK1A haploinsufficiency distinct from idiopathic autism and other ASD-associated gene mutations. *Molecular Autism*.
24. Wallace, A.S., **Hudac, C.M.**, Berg, J., DesChamps, T.D., Steinman, K., & Bernier, R.A. (2017). 16p11.2 triplication case study: A summary of neurodevelopmental, behavioral, and medical findings. *Clinical Case Reports*.
25. **Hudac, C.M.**, Stessman, H.A., DesChamps, T.D., Kresse, A., Faja, S., Neuhaus, E., Webb, S.J., Eichler, E.E., & Bernier, R.A. (2017). Exploring the heterogeneity of neural social indices for genetically-distinct etiologies of autism. *Journal of Neurodevelopmental Disorders*, 9(1), 24.
26. Ackerman, S.F., Schoenbrun, S., **Hudac, C.M.**, & Bernier, R.A. (2017). Interactive effects of prenatal antidepressant exposure & likely gene disrupting mutations on the severity of autism spectrum disorder. *Journal of Autism and Developmental Disorders*, pp. 1-8.
27. Bernier, R., **Hudac, C.M.**, Chen, Q., Zeng, C., Wallace, A.S., Gerdts, J., Earl, R., Berg, J., Wolken, A., Peters, A., Hanson, E., Goin-Kochel, R.P., Kanne, S., Snyder, L.G., & Chung, W.K. on behalf of the Simons VIP consortium. (2017). Developmental trajectories for young children with 16p11.2 copy number variation. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*.
28. **Hudac, C.M.\***, Kresse, A.\* , Aaronson, B., DesChamps, T.D., Webb, S.J., & Bernier, R.A. (2015). Modulation of mu attenuation to social stimuli in children and adults with 16p11.2 deletions and duplications. *Journal of Neurodevelopmental Disorders*. 7(1), 1.

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29. Higdon, R.\* , Kincade Earl, R.\* , Stanberry, L., **Hudac, C.M.**, Montague, E., Bernier, R.A., & Kolker, E. (2015). The promise of multi-omics and clinical data integration to identify and target personalized healthcare approaches in Autism Spectrum Disorders. *OMICS: A Journal of Integrative Biology*, 2015.

Contribution #4: Building neural biomarkers of disease (e.g., traumatic brain injury, sleep disruption)

30. **Hudac, C.M.\***, Cortesa, C.S.\* , Ledwidge, P.S., & Molfese, D.L. (2017). History of concussion impacts electrophysiological correlates of working memory. *International Journal of Psychophysiology*.
31. **Hudac, C.M.**, Kota, S., Nedrow, J.L., & Molfese, D.L. (2012). Neural mechanisms underlying neuro-optometric rehabilitation following traumatic brain injury. *Eye and Brain*. 2012:4, 1-12.  
doi: 10.2147/EB.S27290
32. Molfese, D.L., Ivanenko, A., Key, F., Roman, A., Molfese, V.J., O'Brien, L.M., Gozal, D., Kota, S., & **Hudac, C.M.** (2013). A One-Hour Sleep Restriction Impacts Brain Processing in Young Children Across Tasks: Evidence From Brain Recordings. *Developmental Neuropsychology*, 38:5, 317-336,  
doi:10.1080/87565641.2013.799169.

## BOOKS AND CHAPTERS

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1. **Hudac, C.M.** & Sommerville, J. (in revision). Understanding others' minds and (socio)-morality: Progress and innovation of infant electrophysiology. To appear in J. Decety (Ed.), *Social Brain/Mind: A Developmental Perspective*. Boston, MA: MIT Press.
2. Pelphrey, K.P., Vander Wyk, B.C., Shultz, S., & **Hudac, C.M.** (2014). Social brain function and its development: New insights into autism spectrum disorders. In J. McPartland, A. Kin, & F.R. Volkmar (Ed.), *Asperger Syndrome, Second Edition: Assessing and treating high-functioning autism spectrum disorders*. (pp. 415-440) New York, NY: Guilford Publications, Inc.

## ORAL PRESENTATIONS AND INVITED TALKS

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1. **Hudac, C.M.**, Gerdts, J.A., Turner, T.N., Eichler, E.E., Webb, S.J., & Bernier, R.A. (May, 2019). Characterizing the neural phenotype of *CHD8* and *CHD8*-related targets. Oral presentation at the International Society for Autism Research (INSAR) annual meeting in Montreal, Canada.
2. Bernier, R.A., **Hudac, C.M.**, Gerdts, J.A., Turner, T.N., Eichler, E.E., Webb, S.J., & Bernier, R.A. (May, 2019). The Human CHD8 Phenotype. Oral presentation for symposium at the International Society for Autism Research (INSAR) annual meeting in Montreal, Canada.
3. **Hudac, C.M.**, Mahony, M., Arnett, A., Wallace, A.S., Gerdts, J., Eichler, E.E., Webb, S.J., & Bernier, R.A. (April, 2019). Motor development, the brain, and genetics: Is there a converging biological pathway in ASD? Oral presentation for symposium on "Mechanisms and Functional Consequences of Motor Impairments Across Down syndrome, fragile X, single gene mutations, and high-autism-risk populations" at the annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities in San Antonio, TX.
4. **Hudac, C.M.** (October, 2018). The social brain in 16p11.2: Patterns of learning. Oral presentation for symposium on "A genotype-first approach for defining phenotypic subtypes in ASD" at the Brain and Behavior in Autism symposium at the Center on Human Development and Disability in Seattle, WA.
5. **Hudac, C.M.**, Cairney, B., DesChamps, T.D., Arnett, A.B., Mahony, M.M., Webb, S.J., & Bernier, R.A. (October, 2018). Brain correlates of the *SCN2A* phenotype. Oral presentation for symposium on "A genotype-first approach for defining phenotypic subtypes in ASD" at the 65<sup>th</sup> annual meeting for the American Academy of Child and Adolescent Psychiatry in Seattle, WA.
6. **Hudac, C.M.** (April, 2018). Panel chair for symposium on "Uncovering genetic subtypes of neurodevelopmental disorders" at the annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities in San Diego, CA.
7. **Hudac, C.M.**, Cairney, B., DesChamps, T.D., Arnett, A.B., Mahony, M.M., Webb, S.J., & Bernier, R.A. (April, 2018). The current progress and challenges of the genetic-first approach: An example using the *SCN2A* subtype. Oral presentation for symposium on "Uncovering genetic subtypes of neurodevelopmental disorders" at the annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities in San Diego, CA.
8. Beighley, J.S., **Hudac, C.M.**, Arnett, A.B., Peterson, J., Gerdts, J., Arianne S. Wallace, & Bernier, R.A.

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- (April, 2018). The *CHD8* phenotype: Relationship to shared molecular subtypes. Oral presentation for symposium on “Uncovering genetic subtypes of neurodevelopmental disorders” at the annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities in San Diego, CA.
9. **Hudac, C.M.**, (September, 2017). Can a single trial be an ERP? Discussion of the feasibility of single-trial analyses. Presentation for the Human Electrophysiological Component core of the Center on Human Development and Disability at University of Washington in Seattle, WA.
  10. **Hudac, C.M.**, DesChamps, T.D., Slattery, B., Ma, R., Wallace, A.S., Troiani, V., DiCriscio, A.S., Taylor, C., & Bernier, R.A. (May, 2017). Dynamic patterns of attention in children with rare *SCN2A* genetic variants. Oral presentation for symposium on “Building a phenotype: Discoveries of genetically distinct subtypes of ASD” at the annual International Meeting for Autism Research in San Francisco, CA.
  11. **Hudac, C.M.** (May, 2017). Panel chair for symposium on “Building a phenotype: Discoveries of genetically distinct subtypes of ASD ” at the annual International Meeting for Autism Research in San Francisco, CA.
  12. Earl, R.K., **Hudac, C.M.**, Gerdtts, J., & Bernier, R.A. (May 2017). Phenotypic presentation and the role of parental phenotype in accounting for variability in individuals with disruptive *DYRK1A* mutations. Oral presentation for symposium on “Autism with known genetic associations: Implications for ‘idiopathic’ autism” at the annual International Meeting for Autism Research in San Francisco, CA.
  13. **Hudac, C.M.**, Pospisil, J., & Sommerville, J.A. (April, 2017). Infant brain correlates of fairness expectations. Oral presentation for symposium on “The Development of Social Fairness” at the biannual Society for Research in Child Development in Austin, TX.
  14. **Hudac, C.M.** & Bernier, R.A. (March, 2017). EEG biomarkers of attention and learning associated with rare genetic variants. Oral presentation for symposium on “Electrophysiological Biomarkers of Risk Prediction and Outcome in Neurodevelopmental Disorders: Methodological considerations and insights gained from studies in ASD, ID and ADHD” at the Gatlinburg Conference in San Antonio, TX.
  15. **Hudac, C.M.**, Pospisil, J., & Sommerville, J.A. (November, 2016). Infant brain correlates of fairness expectations. Oral presentation for University of Washington Postdoctoral Association Annual Research Symposium in Seattle, WA.
  16. **Hudac, C.M.**, as program organizer and co-chair of the University of Washington Postdoctoral Association. (May, 2016). Developing agency & effecting change through networking. Moderated panel discussion in Seattle, WA.
  17. **Hudac, C.M.** (2016, January). The eyes have it: Potential uses for the integration of eye-tracking and single-trial MEG/EEG. Invited talk at the Institute for Learning and Brain Sciences seminar series.
  18. **Hudac, C.M.** (2015, October). Coding with colleagues: Progress on two projects. Symposium oral presentation at the Center for Human Development and Disability Human Electrophysiology Symposium at the University of Washington in Seattle, WA.
  19. **Hudac, C.M.**, Kresse, A., DesChamps, T., Webb, S.J., & Bernier, R.A. (2015, May). Biomarkers of social perception in children with ASD and loss of function gene mutations. Symposium oral presentation at the annual International Meeting for Autism Research (IMFAR) in Salt Lake City, UT.
  20. Skinner, A.L. & **Hudac, C.M.** (2015, February). Is prejudice contagious? Evidence of when and how social bias spreads. Symposium oral presentation at the annual Society for Personality and Social Psychology (SPSP) in Long Beach, CA.
  21. Chernyavskiy, P., **Hudac, C.M.**, Marx, D.B., & Molfese, D.L. (2014, August). A Quantitative approach to the diagnosis of head injuries through a spatio-temporal model of the electrophysiological assessment of working memory. Oral presentation at the Joint Statistical Meetings in Montreal, Quebec.
  22. Skinner, A.L., **Hudac, C.M.**, & Molfese, D.L. (2014, May). “Ugh.. You disgust me!” Evidence of dehumanization of interracial couples amount high bias individuals. Symposium oral presentation at the Association for Psychological Science annual convention in San Francisco, CA.
  23. Chernyavskiy, P., Marx, D.B., **Hudac, C.M.**, & Schwab, A.D. (2013, August). Towards an absolute lack of fit measure for spatio-temporal models. Oral presentation at the Joint Statistical Meetings in Montreal, Quebec.

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24. **Hudac, C.M.** (2013, May) **Invited Paper:** Emergence of theory of mind in infancy: A brain-behavior approach. Oral presentation at the Midwestern Social Development Consortium annual meeting in Lincoln, NE.
25. **Hudac, C.M.**, Kota, S., Nedrow, J.L., & Molfese, D.L. (2012, April). **Invited Paper:** Neural mechanisms underlying neuro-optometric rehabilitation following traumatic brain injury. Invited oral presentation at the annual Neuro-Optometric Rehabilitation Association in Memphis, TN.
26. **Hudac, C.M.**, Kaiser, M.D.; Shultz, S.; Lee, S.M.; Cheung, C.; Berken, A.M.; Deen, B.; Pitskel, N.B.; Sugrue, D.R.; Voos, A.C.; Saulnier, C.A.; Ventola, P.; Wolf, J.M.; Klin, A.; Vander Wyk, B.C.; & Pelphrey, K.A. (2010, May). Neural Signatures of Autism. Oral presentation at the annual International Meeting for Autism Research (IMFAR) in Philadelphia, PA.

### **POSTER PRESENTATIONS: ~ ~ denotes trainee supervision for presentation**

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1. **Hudac, C.M.**, Gerdts, J.A., Turner, T.N., Eichler, E.E., & Bernier, R.A. (May, 2019). Examining the broader autism phenotype in the context of genetic etiology. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Montreal, Canada.
2. ~ ~ Mahony, M.M., Pepper, M., **Hudac, C.M.**, Savage, T., Locke, J., & Bernier, R.A. (May, 2019). Grooplt: An innovative platform to speed up rare genetic disorder research. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Montreal, Canada.
3. ~ ~ Boyd, B., Arnett, A.B., **Hudac, C.M.**, Hoekzema, K., Turner, T.N., O’Roak, B., Eichler, E.E., & Bernier, R.A. (May, 2019). A comparison of head circumference growth trajectories in the context of the CHD8 regulatory network. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Montreal, Canada.
4. ~ ~ Cairney, B. E., **Hudac, C. M.**, Mahony, M. M., DesChamps T. D., Ma, R., Beighley, J. S., Gerdts, J., Wallace, A. S., & Bernier, R. A. (April, 2018). Evaluation of EEG Success in Populations with Neurodevelopmental Disorders. Poster presentation at the annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities in San Diego, CA.
5. **Hudac, C.M.**, Cairney, B.E., DesChamps, T.D., Gerdtts, J., Wallace, A.S., Turner, T.N., Eichler, E.E., Webb, S.J., & Bernier, R.A. (October 2017). Electrophysiological correlates of attention associated with genetic subtypes of autism spectrum disorder. Poster presentation at the 50<sup>th</sup> Anniversary Celebration of the Center on Human Development and Disability Research Symposium in Seattle, WA.
6. ~ ~ Arnett, A.B., **Hudac, C.M.**, DesChamps, T.D., Ma, R., Cairney, B.E., Wallace, A.S., Gerdtts, J., Webb, S.J., & Bernier, R.A. (October 2017). Neurophysiological asymmetry is associated with receptive language skill in autism spectrum disorder. Poster presentation at the 50<sup>th</sup> Anniversary Celebration of the Center on Human Development and Disability Research Symposium in Seattle, WA.
7. ~ ~ DesChamps, T.D., Cairney, B.E., **Hudac, C.M.**, Ma, R., Wallace, A.S., Troiani, V., DiCriscio, A.S., Tayplor, C.M., & Bernier, R.A. (May 2017). Atypical neural sensory processing of auditory stimulus change among children with *de novo* disruptive mutations to SCN2A. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in San Francisco, CA.
8. ~ ~ Ma, R., **Hudac, C.M.**, Kresse, A., Naples, A., Faja, S., McPartland, J., & Bernier, R.A. (May 2017). Neural signature of dynamic facial processing in children with ASD. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in San Francisco, CA.
9. ~ ~ Arnett, A.B., **Hudac, C.M.**, DesChamps, T.D., Ma, R., Cairney, B.E., Wallace, A.S., Gerdtts, J., & Bernier, R.A. (May 2017). Reduced frontal P1 amplitude differentiation as a neural signature of speech sound disorder in ASD. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in San Francisco, CA.
10. ~ ~ Fox, E., Wolken, A., **Hudac, C.M.**, Frye, M., Earl, R.K., Trinh, S., & Bernier, R.A. (May 2017). Clinician-derived social profiles predict play and friendships with peers in children with autism spectrum disorders. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in San Francisco, CA.
11. **Hudac, C.M.**, DesChamps, T.D., Webb, S.J., & Bernier, R.A. (May 2016). Atypical novelty detection ERP responses associated with genetic but not idiopathic ASD etiologies. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in Baltimore, MD.

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12. Kincade, R.E., **Hudac, C.M.**, Gerdts, J., Eichler, E.E., & Bernier, R.A. (May 2016). Familial contribution to clinical variability in social responsiveness for individuals with disruptive mutations to CHD8 and CHD8 target genes. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in Baltimore, MD.
13. Kincade, R.E., **Hudac, C.M.**, Ward, T., Gerdts, J., & Bernier, R.A. (May 2015). Sleep problem profiles of individuals with ASD-associated mutations. Poster presentation at the annual International Meeting for Autism Research (IMFAR) in Salt Lake City, UT.
14. Chernyavskiy, P., **Hudac, C.M.**, Molfese, D.L., & Marx, D.B. (September 10-12, 2014) Using the spatio-temporal variogram for the classification of electroencephalographic (EEG) assessment. Presented at the 7<sup>th</sup> International Workshop on Spatio-Temporal Modeling and Research Group for Statistical Applications to Environmental Problems (METMA VII – GRASPA) in Torino, Italy.
15. **Hudac, C.M.** & Skinner, A.L. (May 22-24, 2014) Arbitrary social decisions moderate the effect of ostracism. Presented at Association for Psychological Science (APS) annual convention in San Francisco, CA.
16. ~ Damme, K.S., **Hudac, C.M.**, & Molfese, D.L. (May 8-10, 2014). Pubertal Development Modulates Event Related Potential During Gambling Task: Preliminary Data. Presented at Society of Biological Psychiatry annual meeting in New York, NY.
17. **Hudac, C.M.** & Schutte, A.R. (October 18-19, 2013). Dynamic neural fields models of infant theory of mind. Presented at Cognitive Development Society in Memphis, TN.
18. **Hudac, C.M.** (October 3, 2013). Correspondence between fMRI and ERP: Evidence for social brain networks involved in theory of mind. Presented at Nebraska Neuroscience Symposium in Omaha, NE.
19. **Hudac, C.M.**, Haslam, J.A., & Garrison, G.M. (May 23-24, 2013). Modulation of neural mechanisms supporting emotion regulation across pubertal development. Presented at the Midwestern Social Development Consortium annual meeting in Lincoln, NE.
20. Petersen, I.T., Bates, J.E., Kelsey, K., **Hudac, C.M.**, Kota, S., Cortesa, C., Molfese, D.L., & Staples, A.D. (April 18-20, 2013). Longer P3 Latencies Associated with Externalizing Behavior Problems in Young Children. Presented at the biannual Society for Research in Child Development in Seattle, WA.
21. Cortesa, C.S., **Hudac, C.M.**, & Molfese, D.L. (October 11, 2012). Brain-Behavior Relationships in Collegiate Athletes: Utility of Event-Related Potentials. Concussion in Athletics: From Brain to Behavior, 2<sup>nd</sup> Annual Conference. Penn State University Park, State College, PA.
22. ~ Munsche, H.A., Molfese, D.L., Decker, P.S., Cortesa, C.S., & **Hudac, C.M.** (October 11, 2012). The Effect of mTBI on ERP & Behavioral Measures for College Football Players. Concussion in Athletics: From Brain to Behavior, 2<sup>nd</sup> Annual Conference. Penn State University Park, State College, PA.
23. ~ Decker, P.S., Cortesa, C.S., **Hudac, C.M.**, & Molfese, D.L. (October 11, 2012). Concussion Self-Report and Working Memory Function in University Football Players. Concussion in Athletics: From Brain to Behavior, 2<sup>nd</sup> Annual Conference. Penn State University Park, State College, PA.
24. **Hudac, C.M.** & Molfese, D.L. (June 26, 2012). Electrophysiological correlates of theory of mind. Presentation at the Maryland Neuroimaging Center Summer Institute on Social Developmental Neuroscience. University of Maryland, College Park, MD.
25. Molfese, D.L., **Hudac, C.M.**, Cortesa, C., Kota, S., Devlin, L.A., & Radmacher, P. (May 3, 2012). Contrasting the use of MMN and Equal Probability Paradigms to Study Memory in Late Preterm and Term Infants. Presentation at the 6th Conference on Mismatch Negativity (MMN) and Its Clinical and Scientific Applications. The Graduate Center, CUNY, New York, NY.
26. **Hudac, C.M.**, Petro, N., Meidlinger, K.M., Haslam, R., Kota, S., Nedrow, J.L., & Molfese, D.M. (2012, March). Correction of visual dysfunction following traumatic brain injury during Stroop color-naming task. Presented at the annual Cognitive Neuroscience Society (CNS) Meeting in Chicago, IL.
27. **Hudac, C.M.**, Shultz, S.; Vander Wyk, B.C.; & Pelphrey, K.A. (2010, June). Belief Representations Inform Action Understanding in the Posterior Superior Temporal Sulcus Region. Presented at the annual Organization for Human Brain Mapping (OHBM) in Barcelona, Spain.
28. Vander Wyk, B.C.; **Hudac, C.M.**; Cheung, C.; Lee, S.M.; Berken, A.M.; Dillon, M.D.; Saulnier, C.A.; & Pelphrey, K.A. (2010, May). Category Representation in Autism and Unaffected Siblings. Presented at the annual International Meeting for Autism Research (IMFAR) in Philadelphia, PA.

## Caitlin M. Hudac, CV

29. Jou, R.J.; Mateljevic, N.; **Hudac, C.M.**; & Pelphrey, K.A. (2010, May). White Matter Abnormalities in Autism Spectrum Disorders: Evidence of Abnormal Neural Connectivity. Presented at the annual International Meeting for Autism Research (IMFAR) in Philadelphia, PA.
30. **Hudac, C.M.**, Arizpe, J.M., Lee, S.M., Vander Wyk, B.C., Williams, D.L., Minshew, N.J., & Pelphrey, K.A. (2009, May). Self and Other Emotional Reflections in Autism. Presented at the annual International Meeting for Autism Research (IMFAR) in Chicago, IL.
31. Pitskel, N.B., **Hudac, C.M.**, Vander Wyk, B.C., Minshew, N.J., Lantz, S.D., & Pelphrey, K.A. (2009, May). Brain Mechanisms for Processing a Social Approach in Autism. Presented at the annual International Meeting for Autism Research (IMFAR) in Chicago, IL.
32. **Hudac, C.M.**, Vander Wyk, B.C., Sobel, D. M., Perlman, S.B., Minshew, N.J., & Pelphrey, K.A. (2008, October). Brain Mechanisms for Intention Understanding in Individuals with and without Autism. Presented at the Autism Neuroscience Conference in London, U.K.
33. Carter, E.J., **Hudac, C.M.**, Perlman, S.B., Vander Wyk, B.C., Dewhurst, S.G., Minshew, M., & Pelphrey, K.A. (2008, May). Influences of Manipulating Scanpaths on Brain Activity Evoked by Faces in Individuals with and without Autism. Presented at the annual International Meeting for Autism Research (IMFAR) in London, U.K. S
34. Perlman, S.B., **Hudac, C.M.**, Dewhurst, S.G., Vander Wyk, B.C., & Pelphrey, K.A. (2008, May). Brain Mechanisms for Emotion Regulation during Induced Negative Mood. Presented at the annual meeting of Concepts, Actions, and Objects: Functional and Neural Perspectives in Rovereto, Italy.

## PROFESSIONAL MEMBERSHIPS

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American Psychological Association  
Cognitive Development Society  
International Society for Autism Research  
Organization for Human Brain Mapping  
Society for Research in Child Development

## PROFESSIONAL SERVICE

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University of Washington Department of Psychiatry and Behavioral Sciences, Research Retreat Planning Committee	2018
International Society for Autism Research, Communication Committee	2017-present
University of Washington Postdoctoral Association, Co-Chair	2015-2017
Bernier Lab Journal Club Corodinator	2014-present
UNL, Department of Psychology, Developmental Issues Group Coordinator	2012-2014
UNL, Department of Psychology, Colloquia Committee Member	2011-2014

## AD-HOC REVIEWER

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*Attention, Perception, & Psychophysics* (1 a year)  
*Autism Research* (2-3 a year)  
*Biological Psychology* (1-3 a year)  
*Cortex* (1-3 a year)  
*Developmental Science* (1-3 a year)  
*Developmental Neuropsychology* (1-3 a year)  
*Journal for Autism and Developmental Disorders* (3-5 a year)  
*Journal of Neurodevelopmental Disorders* (1-3 a year)  
*NeuroImage* (1-3 a year)



## **Caitlin M. Hudac, CV**

*Pediatric Neurology* (1-3 a year)

### **TEACHING INTERESTS AND ACCOMPLISHMENTS**

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**Teaching Areas of Expertise:** Developmental Psychology (Infancy, Child, Life Span), Functional Cognitive Neuroscience, Social Cognition, Sensation and Perception

#### **Courses Taught**

Department of Psychology, University of Nebraska-Lincoln

Developmental Psychology (PSYC 289): Summer 2012, Summer 2013

Guest lectures, University of Washington

Early Cognitive and Linguistic Development (PSYCH 514): Fall 2018

Autism 501: Understanding Autism (EDPSYC 501): Fall 2017, Fall 2018

Core Concepts: Early Social Cognition in Typical Development and Autism (PSYC 516): Fall 2017

Guest lectures, University of Nebraska-Lincoln

Child Behavior and Development (PSYC 489/889): Spring 2013, Spring 2014

Perception (PSYC 463/863): Spring 2012, Spring 2013, Spring 2014

#### **Workshops conducted**

Vinmec International Hospital; Vinmec Research Institute of Stem Cell and Gene Technology, Hanoi, Vietnam

Autism Training Program (5 days): March 2018

Center on Human Development and Disability, University of Washington

Electroencephalography and Eye tracking Theory and Acquisition (2 days): November 2015, August 2016, April 2017, May 2017, April 2018

Department of Psychology, University of Nebraska-Lincoln

Introduction to Event-Related Potentials (2 days): January 2011, May 2012, August 2012

BOLD and MRI Basics (1 day): June 2011

Introduction to Neuroimaging (2 days): September 2011, August 2012, February 2013

#### **Graduate Student and Research Assistant Projects Supervised**

Kathryn Kimpel, B.A., University of Washington (2018)

Kelsey Loy, B.A., University of Washington (2017)

Monique Mahony, B.A., University of Washington (2017-present)

Brianna Slattery, B.A., University of Washington (2016-2018)

Ruqian Ma, M.A., University of Washington (2015-present)

Trent DesChamps, B.A., University of Washington (2014-2017)

Kyleen Luhrs, B.A., University of Washington (2014)

Sarah Schoenbrun, B.A., University of Washington (2015)

#### **Undergraduate Student Honors Theses and Research Projects Supervised**

Katherine Wadhvani, University of Washington (2018-present); \*\* awarded Jeremy Clark Fellowship

Sherief Eldeeb, Clark University (2017)

Nathan Petro, University of Nebraska-Lincoln (2010-2012)

Jonathan Haslam, University of Nebraska-Lincoln (2011-2014)

Grant Garrison, University of Nebraska-Lincoln (2011-2014)

## **Caitlin M. Hudac, CV**

### **Undergraduate Student Honors Theses and Research Projects Co-Supervised**

Raja Pillai, Yale University (2009-2010)

Rosibel Hernandez, Yale University (2009-2010)

### **COMPUTER AND EQUIPMENT EXPERTISE**

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**EEG / ERP systems:** High-density EEG (Electrical Geodesics, Inc.)

**EEG / ERP analysis:** NetStation, EEGLab, customized programs

**EEG / ERP source analysis:** GeoSource (Electrical Geodesics, Inc.)

**MRI imaging systems:** Siemens 3T TIM Trio, Siemens 3T MAGNETOM Allegra

**MRI imaging analysis:** AFNI, Brain Voyager QX, BiImage Suite, FSL, SPM8, customized programs

**Near-infrared spectroscopy systems:** Hitachi ETC4000, NIRx, customized systems

**Eye-tracking systems:** Tobii T60, Tobii TX300, ISCAN, ASL, Smart Eye DR 120, Eye Link 1000 Plus

**Programming environments and statistical packages:** SAS, SPSS, MATLAB, R / R Studio, E-Prime 1.0 and 2.0, Stim Presentation, Presentation, CIGAL

**Motion tracker system:** PST MoTrak

**Video and photo editing:** Final Cut Pro; Adobe Photoshop, Flash, Illustrator, Standard, Dreamweaver

**Basic processing:** Microsoft Office including Word, Excel, PowerPoint, Publisher, FrontPage; EndNote; Papers