

CURRICULUM VITAE

Caitlin M. Hudac

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DEGREES AND EDUCATION

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

FACULTY APPOINTMENTS

University of Alabama, Assistant Professor	August 2019-Present
Department of Psychology & Center for Youth Development and Intervention	

RESEARCH AND PROFESSIONAL EXPERIENCE

University of Washington, Research Scientist	2018-2019
University of Washington, Senior Post-doctoral Fellow	2014-2018
Mentors: Sara Jane Webb, Raphael Bernier	
University of Nebraska-Lincoln, Graduate Research Assistant	2010-2014
Mentor: Dennis Molfese	
Yale Child Study Center, Research Associate (Mentor: Kevin Pelphrey)	2008-2010
Carnegie Mellon University, Laboratory Manager (Mentor: Kevin Pelphrey)	2007-2008
University of Chicago Sonia Shankman Orthogenic School, Milieu Therapist	2005-2007

ACTIVE GRANTS

R15 MH124041 (PI: Hudac)	09/07/2020 – 08/31/2023	2.13 calendar
NIMH	\$429,213	

Evaluation of the underlying structure of adolescent social attention

Goals: This project seeks to understand the discrete processes involved in social attention during adolescence.

Role: PI

Small Grant Program (PI: Hudac)	1/1/2020 – 12/31/2021	0.0 calendar
Office for Research and Economic Development, University of Alabama	\$6,000	

Social attention in ASD and SAD

Goals: Our objective is to examine underlying components of social attention in autism spectrum disorder (ASD) and social anxiety disorder (SAD) as measured by neural correlates.

Role: PI

2019 Research Grant (PI: Hudac)	11/1/2019 – 10/31/2021	1.92 calendar
GRIN2B Foundation	\$59,546	

Linking Brain and Behavior: A GRIN2B Biomarker

Goals: We aim to examine candidate electroencephalography (EEG) biomarkers related to learning and behaviors in children with disruptive GRIN2B mutations.

Role: PI

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2019 Action Potential Grant (PI: Hudac) 6/1/2019 – 12/31/2021 1.18 calendar
FamiliesSCN2A Foundation \$50,000

SCN2A Biomarkers of Attention

Goals: We aim to link a promising electroencephalography (EEG) based candidate biomarker to clinical behaviors of children with disruptive SCN2A mutations.

Role: PI

NSF 2019120 (PI: Kana) 09/01/2020 – 08/31/2022 0.0 calendar
National Science Foundation \$1,605,115

MRI: Acquisition of a 3.0 Tesla Magnetic Resonance Imaging Scanner

Goals: This award permits the acquisition of a magnetic resonance imaging (MRI) scanner, in support of interdisciplinary collaborative research basic and translational research projects.

Role: Major User

R61 MH117192 (PI: White, B.) 02/06/20 – 01/31/25 1.2 calendar
NIMH \$2,001,426

Development of Psychosocial Therapeutic and Preventive Interventions for Mental Disorders

Goals: We aim to utilize a face recognition intervention to improve outcomes for children with callous and unemotional traits.

Role: Co-I

Research Grant (PI: White, S.) 11/1/2019 – 10/31/2021 0.0 calendar
Alabama Life Research Institute \$25,000

University of Alabama

School-based Treatment for Emotional Reactivity: A Pilot study

Goals: We will deploy a novel ER intervention delivered by school-based providers and assess outcomes related to both impact (efficacy) and implementation (provider satisfaction and attitudes).

Role: Co-I

NCER-CASL-Measurement (PI: Lakin) 07/21/2021-07/20/2025 0.0 calendar
Department of Education \$ 1,646,583

Validity Evidence on the Spatial Ability Assessment for STEM Instruction and Evaluation

Goals: The goal of this project is to conduct validity research on a new measure, the Cognitive Abilities Test (CogAT): Spatial Assessment, which addresses this gap in existing assessments.

Role: Co-I

PENDING GRANTS

Human Cognitive and Behavioral Science RFA 09/01/2021 – 08/31/2024 1.0 AM, 2.0 SM
(PI: Hudac)
Simons Foundation

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Validation of EEG biomarkers of cognition and learning associated with genetic etiologies of autism spectrum disorder

Goals: We seek to validate promising biomarkers for genetic etiologies of ASD in preparation for future clinical trials targeting cognition (attention, social perception, language).

Role: PI

R01 HD (PIs: Xia, Hudac) 10/1/2021-9/31/2026 1.25 calendar
NICHD \$3,380,372

Convergence of Temporal and Neural Underpinnings of Individual Social Connection: Implications of Quality, Quantity, and Need in Social Connection on Well-being

Goals: The overall objective of the project is to determine the degree to which quality, quantity, and need converge into a unitary construct SC that predicts both short- and long-term adolescent positive and negative WB, and whether this unitary construct of SC maps onto neurobiological processes.

Role: Multiple PI

U01 NIH (PIs: Peralta, Yerby, Newman) 9/1/2021-8/31/2026
NIH \$11,691,037

Alabama Brain and Neuro Developmental Infant Trajectory Study

Goals: Via a prospective longitudinal study targeting pregnant women and their infants, we will examine variability in outcomes and the effect of substance exposure *in utero* as well as other experiences in development and the interaction with genetic, biological and endocrine system.

Role: Co-I

R01 NIH (PIs: White, S/Kana) 3/30/2022-3/29/2026
NIMH \$2,574,400

A Neurobiological Framework of Emotion Dysregulation to Predict Comorbidity Among Adolescents with Autism

Goals: We will examine the construct of emotion dysregulation in autism spectrum disorder using a data-driven longitudinal multimethodological approach (fMRI, sMRI, EEG, ERP, ET, and behavior).

Role: Co-I

AWARDS & FELLOWSHIPS

Nomination for 2021 President's Research Award as an Emerging Scholar, University of Alabama	2021
Theodore Tjossem Postdoctoral Award, 50 th Annual Gatlinburg Conference	2017
Top Oral Presentation, University of Washington Postdoctoral Association Research Symposium	2016

PEER-REVIEWED PUBLICATIONS – Organized by topic

Contribution #1: Social attention, social cognition, and related processes in typical development

Under review

- a. **Hudac, C.M.**, Pospisil, J.W., & Sommerville, J.A. (under review). *The neural correlates of fairness expectations in infancy.*

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1. **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. (2021). Modeling temporal connectivity of face processing in youth and adults. *Social Neuroscience*, 2021: 1-17.
2. Cortesa, C.S., **Hudac, C.M.**, & Molfese, D.L. (2019). Dynamic effects of habituation and novelty detection on newborn event-related potentials. *Brain and Language*, 199, 104695.
3. **Hudac, C.M.** (2019). Rapid dynamic modulation of ostracism neural responses following social priming. *Social Neuroscience*, 14(3), 313-327.
4. Skinner, A.S. & **Hudac, C.M.** (2017) "Yuck, you disgust me!" Affective bias against interracial couples. *Journal of Experimental Social Psychology*, 68, 68-77.
5. 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
6. 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.
7. 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: Social attention, social cognition, and related processes in autism spectrum disorder (ASD)

Under review

- a. Shic, F., **Hudac, C.M.**, Bradshaw, J., Macari, S., & Charwarska, K. (under review). *Components of limited activity monitoring in toddlers with ASD*.
 - b. Cicchetti, D.V., Nordhal-Hansen, A., Volkmar, F.R., Shic, F., Bradshaw, J., **Hudac, C.M.**, & Øien, R.A. (under review). *The clinical relevance of Cohen's Kappa, Part II: And the beat goes on...*
8. **Hudac, C.M.**, Santhosh, M., Celerian, C., Chung, K-M., Jung, W., & Webb, S.J. (2021) The role of racial and developmental experience in emotional adaptive coding. *Developmental Neuropsychology*, 1-16.
 9. Kaliukhovich, D.A., Manyakov, N.V., Bangerter, A., Ness, S., Skalkin, A., Boice, M., Goodwin, M.S., Dawson, G., Hendren, R.L., Leventhal, B., **Hudac, C.M.**, Bradshaw, J., Shic, F., & Pandina, G. (2020). Social attention to activities in children and adults with autism spectrum disorder: effects of context and age. *Molecular Autism*, 11(1), 1-14.
 10. Li, B., Nuechterlein, N., Barney, E., **Hudac, C.M.**, Ventola, P., Shapiro, L., & Shic, F. (2020). Selection of eye-tracking stimuli for prediction by sparsely grouped input variables and for neural networks: towards biomarker refinement for autism. In *ETRA '20: ACM Symposium on Eye Tracking Research and Applications, June 02-05-2020, Stuttgart, Germany*. ACM, New York, NY, USA, 10 pages. <https://doi.org/10.1145/1122445.1122456>.
 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*, 123, 110-119.
 12. Arnett, A.B., **Hudac, C.M.**, DesChamps, T.D., Cairney, B.E., Gerds, J., Wallace, A.S., Bernier, R.A., & Webb, S.J. (2018). Auditory perception is associated with implicit language learning and receptive language ability in autism spectrum disorder. *Brain and Language*. 187:1-8.
 13. 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*, 52(6), 631-644. doi: 10.1111/j.1469-7610.2010.02349.x
 14. 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*, 41(12), 1686-1693. doi: 10.1007/s10803-011-1197-x.
 15. 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.

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16. 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: Critical individual difference factors of ASD and other neurodevelopmental disorders, including genetic etiology and rural health disparities

Under review

- a. **Hudac, C.M.**, Kurtz-Nelson, E.K., Rutter, T.M., Peterson, J.L., Hoekzema, K., Beighley, J., Kelly, M.E., Wallace, A.S., Gerdts, J., Eichler, E.E., Bernier, R.A., & Earl, R.K. (under review). *Unpacking the autism spectrum disorder profile of children with de novo disruptive GRIN2B variants: A quantitative and qualitative analysis.*
 - b. Tomeny, T., **Hudac, C.M.**, Kana, R., Maliai, E., Morett, L., Tomeny, K., & Watkins, L. (under review). *Serving individuals with autism spectrum disorder in the age of COVID-19: Special considerations for rural and underserved families.*
17. Coll-Tane, M., Gong, N., Belfer, S.J., van Renssen, L., [et al., including **Hudac, C.M.**], & Schenck, A. (2021). CHD8/CHD7/Kismet link blood-brain barrier glia and serotonin to ASD-associated sleep deficits. *Scientific Advances*, 7(23), eabe2626.
18. Earl, R.K., Ward, T., Gerdts, J., Eichler, E.E., Bernier, R.A., & **Hudac, C.M.** (2021). Sleep problems in children with ASD and gene disrupting mutations. *Journal of Genetic Psychology*, 1-18. doi: 10.1080/00221325.2021.1922869. Epub ahead of print. PMID: 33998396.
19. **Hudac, C.M.***, Bove, J.*, Barber, S., Duyzend, M., Wallace, A.S., Martin, C.L., Ledbetter, D.H., Hanson, E., Goin-Kochel, R.P., Green-Synder, L., Chung, W., Eichler, E.E., & Bernier, R.A. (2020). Evaluating heterogeneity in ASD symptomatology, cognitive ability, and adaptive functioning among 16p11.2 CNV carriers. *Autism Research*, Online 29 June 2020, 1-11. doi:10.1002/aur.2332
20. Kana, R.K., **Hudac, C.M.**, Tomeny, T.S., O'Kelley, S., Barber, A.B., & White, S.W. (2020). *Impact of COVID-19 on Autism Research: Reflections from Alabama*. In Amaral, D.G. & de Vries, P.J. (Eds.), *COVID-19 and Autism Research: Perspectives from Around the Globe*. Autism Research, 13(6), 844.
21. Kurtz-Nelson, E.C., Beighley, J.S., **Hudac, C.M.**, Gerdts, J., Wallace, A.S., Hoekzema, K., Eichler, E.E., & Bernier, R.A. (2020) Co-occurring medical conditions among individuals with ASD-associated disruptive mutations. *Journal of Children's Health Care*, 1-14.
22. Kana, R.K., **Hudac, C.M.**, & White, S.W. (2019). Developmental Considerations of Comorbidity in Autism Spectrum Disorder: the need for science across multiple units of analysis. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. 4(12), 1016-1017.
23. Beighley, J.S.*, **Hudac, C.M.***, 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. (2019). Clinical and behavioral phenotypes of carriers of mutations in CHD8 or its conserved target genes. *Biological Psychiatry*, 87(2), 123-131.
24. Wallace, A.S., **Hudac, C.M.**, Berg, J., DesChamps, T.D., Steinman, K., & Bernier, R.A. (2018). Longitudinal report of child with de novo 16p11.2 triplication. *Clinical Case Reports*, 6(1), 147-154.
25. 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
26. 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*, 8(1), 54.
27. **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.
28. 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*, 47, pp. 3489-3496.

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29. 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*.
30. **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.
31. 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.
32. **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*, 132(Pt A), 135-144.
33. 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.
34. **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

BOOKS AND CHAPTERS

1. **Hudac, C.M.**, Friedman, N.R., & Turner, T.N. (under contract with Academic Press). Genetic etiologies of autism: Unpacking pathogenic mechanisms and characteristics. In R. Kana (Ed.), *The Neuroscience of Autism*. Cambridge, MA: Academic Press.
2. **Hudac, C.M.** & Sommerville, J. (2021). Understanding others' minds and (socio)-morality: Progress and innovation of infant electrophysiology. In J. Decety (Ed.), *The Social Brain: A Developmental Perspective*. Cambridge, MA: MIT Press.
3. 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.

INVITED TALKS AND ORAL PRESENTATIONS ~~ denotes supervision and support of trainee

1. **Hudac, C.M.** (August 2021). A push to develop inclusive biomarkers for neurodevelopmental disorders. Invited speaker at Stony Brook University's Clinical Science Colloquium, in partnership with Society for a Science of Clinical Psychology's Virtual Clinical Lunch series (<http://www.sscpweb.org/ClinicalLunch>).
2. **Hudac, C.M.** (May 2021). Biomarkers for all: EEG methods to improve opportunities for individuals with intellectual disabilities. Invited speaker at the Innovative Phenotyping Seminar, Seattle Children's Research Institute, Seattle, WA.
3. **Hudac, C.M.** (September 2020). DYRK1A research update: Searching for biomarkers. Invited speaker (recorded webinar) at the DYRK1A Insights virtual webinar.
4. **Hudac, C.M.** (September 2020). Searching for a GRIN2B Biomarker. Invited speaker at the CureGRIN Virtual Conference.
5. **Hudac, C.M.** (May 2020). Addressing rural health disparities: Identifying underlying mechanisms and developmental trajectories. Invited speaker at the Center for Child Health, Behavior and Development (CCHBD) within the Seattle Children's Research Institute Children.
6. **Hudac, C.M.** (March 2020). Using dynamic systems theory to model the brain. Oral presentation at Memory, Aging, and Cognitive Control (MAC2) Research Laboratory weekly meeting, Department of Psychology, University of Alabama.
7. **Hudac, C.M.** (January 2019). Brain, Genes, and Biomarkers: Understanding learning mechanisms in ASD and neurodevelopmental disorders. Oral presentation at Educational Neuroscience weekly seminar, Department of Education, University of Alabama.

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8. **Hudac, C.M.** (November 2019). Biomarkers of sociocognitive abilities in ID and ASD. Oral presentation at Specific Aims workshop at Center for Clinical and Translational Science (CCTS) Training Symposium, Gulf Shores, AL.
9. **Hudac, C.M.** (November 2019). The emergence of the infant social brain. Oral presentation at Developmental Contemporary Issues weekly meeting, Department of Psychology, University of Alabama.
10. **Hudac, C.M.** & Beighley, J. (October 2019). The CHD8 Story: Steps towards subtypes of Autism. Invited speaker for The Simons Foundation Spectrum, replay available: <https://www.spectrumnews.org/features/multimedia/webinars/webinar-jennifer-beighley-and-caitlin-hudac-discuss-chd8-mutations-in-autism/>.
11. **Hudac, C.M.** (September 2019). Brain, Genes, and Biomarkers: Understanding the social brain in ASD. Oral presentation at University of Alabama Autism Center monthly seminar.
12. **Hudac, C.M.** (September 2019). Developmental cognitive neuroscience: EEG/ERP. Oral presentation at Developmental Contemporary Issues weekly meeting, Department of Psychology, University of Alabama.
13. **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.
14. 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.
15. **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.
16. **Hudac, C.M.** (October, 2018). The social brain in 16p11.2: Patterns of learning. Invited speaker 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.
17. **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 65th annual meeting for the American Academy of Child and Adolescent Psychiatry in Seattle, WA.
18. **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.
19. **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.
20. ~Beighley, J.S., **Hudac, C.M.**, Arnett, A.B., Peterson, J., Gerdts, J., Arianne S. Wallace, & Bernier, R.A. (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.
21. **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.
22. **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

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- 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.
23. **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.
 24. ~Earl, R.K., **Hudac, C.M.**, Gerdt, 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.
 25. **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.
 26. **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.
 27. **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.
 28. **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.
 29. **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.
 30. **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.
 31. **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.
 32. 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.
 33. 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.
 34. 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.
 35. 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.
 36. **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.
 37. **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.
 38. **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 supervision of presenting trainee

1. **Hudac, C.M.** & Friedman, N.R. (May 2021). Determining What Factors Contribute to Atypical Social Motivation in ASD. Virtual poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
2. ~~ Rutter, T.M., Rea, H., Eichler, E.E., Bernier, R.A., Webb, S.J., Earl, R.K., & **Hudac, C.M.** (May 2021). Examining Resting State Alpha Power and Social Motivation among Carriers of CHD8 Mutations and CHD8-Target Genes. Virtual poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
3. ~~ Hall, L.T., Sargent, C.L., Ganz, W.R., Earl, R.K., Eichler, E.E., Bernier, R.A., Webb, S.J., & **Hudac, C.M.** (May 2021). EEG Resting State Spectral Differences between SCN2A, Idiopathic ASD, and Typically Developing Controls. Virtual poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
4. ~~ Miles, C.M., Kurtz-Nelson, E.C., **Hudac, C.M.**, Eichler, E.E., Bernier, R.A., & Earl, R.K. (May 2021). Quantitative 3D Analysis of Craniofacial Dysmorphia in *DYRK1A* Mutations. Virtual poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
5. **Hudac, C.M.** & Friedman, N.R. (April 2021). Progress towards conceptualizing social attention in autism spectrum disorder and social anxiety disorder. Virtual poster presentation at University of Alabama Faculty Research Day in Tuscaloosa, AL.
6. ~~ Williams, A., Friedman, N.R., & **Hudac, C.M.** (April 2021). Response to Exclusion as Observed by Pupillometry. Virtual poster session presented at the Undergraduate Research and Creative Activity conference in Tuscaloosa, AL.
7. ~~ Friedman, N.R. & **Hudac, C.M.** (April 2021). Impact of Intellectual Disability on Social Motivation in Autism Spectrum Disorder. Virtual poster session presented at 54th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities.
8. **Hudac, C.M.**, Santhosh, M., Celerian, C., Chung, K.-M., Jung, W., & Webb, S.J. (October 2020). Delineating the role of racial and developmental experience in emotional face processing: An ERP Study. Poster presented at the International Cultural Neuroscience Society virtual conference.
9. ~~ Irby, K., Bicknell, B., & **Hudac, C.M.** (April 2020). Clinical and neural metrics of cognitive abilities of children with disruptive *GRIN2B* mutations. Virtual poster session presented at Troy University Psychology Conference in Troy, AL.
10. ~~ Nelson, C.M., Mahony, M.M., DesChamps, T., Bernier, R., Shic, F., Webb, S.J., Morett, L.M., **Hudac, C.M.** (April 2020). Attention processes across sensory domains: Characterization from EEG and Eye Tracking. Virtual poster session presented at Southeastern Universities Graduate Research Symposium in Tuscaloosa, AL.
11. ~~ Bicknell, B., Irby, K., & **Hudac, C.M.** (April 2020). Cognitive and adaptive profiles of children with disruptive *GRIN2B* mutations. Virtual poster session presented at the Undergraduate Research and Creative Activity conference in Tuscaloosa, AL.
12. Accepted but conference cancelled due to COVID 2020 restrictions
 - a. **Hudac, C.M.**, DesChamps, T.D., Earl, R., Gerdts, J.A., Eichler, E.E., Webb, S.J., & Bernier, R.A. (May, 2020). Connecting brain and behavior: Understanding *GRIN2B* disruptive mutations. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
 - b. Blok, L., DesChamps, T.D., Fenckova, M., Erdogan, I., Eichler, E.E., Webb, S.J., Earl, R., Bernier, R.A., Schenck, A., & **Hudac, C.M.** (May, 2020). Habituation as an ASD biomarker: Capturing distinct genetic profiles in *Drosophila* and humans. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
 - c. ~~ DesChamps, T.D., Mahony, M., Shic, F., Earl, R., Gerdts, J.A., Trinh, S., Eichler, E.E., Bernier, R.A., & **Hudac, C.M.** (May, 2020). Social activity monitoring among carriers of disruptive mutations to *DYRK1A*. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
 - d. ~~ Nelson, C.A., Mahony, M., DesChamps, T.D., Bernier, R.A., Shic, F., Webb, S.J., Morett, L.M., & **Hudac, C.M.** (May, 2020). Attention processes across sensory domains:

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Characterization from EEG and eye tracking. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.

- e. ~ Ganz, W.R., Hall, L.T., Sargent, C.L., Wadhwani, K., Bernier, R.A., Webb, S.J., & **Hudac, C.M.** (May, 2020). Differences in resting state alpha power between LGDM, idiopathic ASD, and typically developing individuals. Poster presentation at the International Society for Autism Research (INSAR) annual meeting in Seattle, WA.
13. **Hudac, C.M.**, Gerdtz, 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.
14. **Hudac, C.M.**, Gerdtz, 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.
15. ~ 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.
16. ~ 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.
17. ~ Cairney, B. E., **Hudac, C. M.**, Mahony, M. M., DesChamps T. D., Ma, R., Beighley, J. S., Gerdtz, 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.
18. **Hudac, C.M.**, Cairney, B.E., DesChamps, T.D., Gerdtz, 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 50th Anniversary Celebration of the Center on Human Development and Disability Research Symposium in Seattle, WA.
19. ~ Arnett, A.B., **Hudac, C.M.**, DesChamps, T.D., Ma, R., Cairney, B.E., Wallace, A.S., Gerdtz, 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 50th Anniversary Celebration of the Center on Human Development and Disability Research Symposium in Seattle, WA.
20. ~ DesChamps, T.D., Cairney, B.E., **Hudac, C.M.**, Ma, R., Wallace, A.S., Troiani, V., DiCriscio, A.S., Taylpor, 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.
21. ~ 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.
22. ~ Arnett, A.B., **Hudac, C.M.**, DesChamps, T.D., Ma, R., Cairney, B.E., Wallace, A.S., Gerdtz, 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.
23. ~ 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.
24. **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.
25. Kincade, R.E., **Hudac, C.M.**, Gerdtz, 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.

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26. 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.
27. 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 7th International Workshop on Spatio-Temporal Modeling and Research Group for Statistical Applications to Environmental Problems (METMA VII – GRASPA) in Torino, Italy.
28. **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.
29. ~ 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.
30. **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.
31. **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.
32. **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.
33. 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.
34. 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, 2nd Annual Conference. Penn State University Park, State College, PA.
35. ~ 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, 2nd Annual Conference. Penn State University Park, State College, PA.
36. ~ 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, 2nd Annual Conference. Penn State University Park, State College, PA.
37. **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.
38. 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.
39. **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.
40. **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.
41. 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.
42. 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.

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43. **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.
44. 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.
45. **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.
46. 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
47. 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.

MEDIA APPEARANCES AND COVERAGE

1. GRIN2B Foundation, GRIN2B Research Corner, July 19, 2021.
<https://www.youtube.com/watch?v=hVa75Ne7YvM&list=PLohWKwYFr0122LvY8T3cQ7XAcvRY480Z4&index=4>
2. GRIN2B Foundation, Facebook live for GRIN2B Awareness week, March 14, 2021
3. Spectrum News
 - a. Angie Voyles Askham, *Studies unravel diversity of traits tied to chromosome 16 mutations*, August 3, 2020, <https://www.spectrumnews.org/news/studies-unravel-diversity-of-traits-tied-to-chromosome-16-mutations/>
 - b. Jessica Wright, *With its target, top autism gene may define a form of the condition*, May 3, 2020, <https://www.spectrumnews.org/news/targets-top-autism-gene-may-define-form-condition/>
 - c. Jessica Wright, *Early life experiences may shift severity of autism*, January 17, 2020, <https://www.spectrumnews.org/news/early-life-experiences-may-shift-severity-autism/>
 - d. *Pitch your thesis*, December 21, 2018, <https://www.spectrumnews.org/features/special-report/pitch-thesis-big-questions-drive-autism-research/>
 - e. Jessica Wright, *Top autism gene may alter sensory perception*, April 16, 2018, <https://www.spectrumnews.org/news/top-autism-gene-may-alter-sensory-perception/>
 - f. Jessica Wright, *Brain biomarkers of autism may vary by genetic cause*, May 15, 2015, <https://www.spectrumnews.org/news/brain-biomarkers-of-autism-may-vary-by-genetic-cause/>
 - g. Jessica Wright, *Adolescence unmask autism traits in girls*, May 17, 2017, <https://www.spectrumnews.org/news/adolescence-unmasks-autism-traits-girls/>

PROFESSIONAL MEMBERSHIPS

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

PROFESSIONAL SERVICE

FamiliesSCN2A Scientific Advisory Board	2020-present
GRIN2B Foundation, Grant review	2020

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University of Alabama, Diversity, Equity, & Inclusion Group (Subcommittee: Recruitment)	2020-present
University of Alabama, Center for Youth Development and Intervention, Grant review committee	2020-present
University of Alabama, Experimental Program member (Subcommittee: Recruitment)	2020-present
University of Alabama, Department of Psychology Undergraduate Curriculum Committee	2020-present
University of Alabama, Biomedical Research Integrity Chair	2020-present
University of Alabama, Department of Psychology Grant Review Seminar	2019-present
University of Alabama, Graduate Student Write Club Coordinator	2019-present
University of Washington Department of Psychiatry and Behavioral Sciences, Research Retreat Planning Committee	2018
International Society for Autism Research, Communication Committee	2017
University of Washington Postdoctoral Association, Co-Chair	2015-2017
Bernier Lab Journal Club Coordinator	2014-2019
University of Nebraska Lincoln, Department of Psychology, Developmental Issues Group Coordinator	2012-2013
University of Nebraska Lincoln, Department of Psychology, Colloquia Committee Member	2011-2014

AD-HOC REVIEWER

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)
Eye Tracking Research and Applications (1-2 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)
Pediatric Neurology (1-3 a year)

TEACHING INTERESTS AND ACCOMPLISHMENTS

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

Courses Taught

Department of Psychology, University of Alabama

Developmental Psychology (PY 352): Fall 2019, Spring 2020, Fall 2020

Undergraduate Research (PY 451): Fall 2019, Spring 2020, Fall 2020

Affective Neuroscience (PY 630): Spring 2021

Developmental Contemporary Issues (PY 625): Spring 2021

Department of Psychology, University of Nebraska-Lincoln

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

Guest lectures, University of Alabama

Brain, gene and biomarkers: Understanding learning mechanisms in ASD (BEP 600): Spring 2020

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

Ongoing seminars conducted

Write Club, Center for Youth Development and Intervention, University of Alabama 2019-present

Weekly special interest discussion groups, University of Alabama

EEG hands-on preprocessing training (2020-2021)

Social motivation (2020-2021)

Facial emotion recognition (2020-2021)

Social attention and social motivation (2019-2020)

Neuroaesthetics (2019-2020)

Genetic etiology (2019-2020)

Workshops conducted

Center for Youth Development and Intervention, University of Alabama

Hands-on Basics of EEG (0.5 day): March 2021, April 2021

Background and Basics to EEG (1 day): September 2019, March 2021, April 2021

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 Students supervised

Nicole Friedman, B.A., University of Alabama (2020-present)

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

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

Monique Mahony, B.A., University of Washington (2017-2019)

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

Ruqian Ma, M.A., University of Washington (2015-2017)

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

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

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

Graduate Students: Serving on thesis committee

Grace Lee Simmons, B.A., M.A., University of Alabama (2019-present); Dissertation

Elizabeth Bownes, B.A., M.A., University of Alabama (2020-present); Dissertation

Nicole Ferretti, B.A., M.A., University of Alabama (2020-present); Dissertation

Mary Michael Knight, B.A., University of Alabama (2020-present); Master's

Nicole Capriola-Hall, B.A., M.A., University of Alabama (2019-present); Dissertation

Joshua Golt, B.A., University of Alabama (2019-present); Master's

Undergraduate Student Honors Theses and Research Projects supervised

Isabelle Combs, University of Alabama (2020-present)

Abby Williams, University of Alabama (2019-present); ** awarded Emerging Scholars fellowship

Katherine Wadhwani, 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)

Raja Pillai, Yale University (2009-2010); co-supervised with Dr. Kevin Pelphrey

Rosibel Hernandez, Yale University (2009-2010); co-supervised with Dr. Kevin Pelphrey

COMMITMENT TOWARDS DIVERSITY, EQUITY, AND INCLUSION

My research laboratory group ensures that the theories and science we discuss and produce are inclusive of diverse individuals, perspectives, experiences, and contexts. We 1) educate on the negative developmental consequences of inequities and injustices; 2) reduce the barriers to research participation in traditionally underserved communities; 3) ensure intern opportunities for diverse students; 4) amplify underrepresented voices and efforts in science. See <https://b-rad.ua.edu/diversity--inclusion.html>

COMPUTER AND EQUIPMENT EXPERTISE

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, BioImage 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