

ALANA M. CAMPBELL
Curriculum Vitae

University of North Carolina at Chapel Hill
Department of Psychiatry
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Education

Ph.D in Psychology, Cognitive Neuroscience, Colorado State University, 2012
M.S. in Psychology, Colorado State University, 2009
B.S. in Human Development and Family Studies, Cornell University, 2001

Professional Experience

Assistant Professor, University of North Carolina at Chapel Hill, 2016-present
Director UNC IDDRC Developmental EEG and Eye Tracking Core La, 2024-present (previously Associate Director, 2013-2023).
Postdoctoral Research Associate, University of North Carolina at Chapel Hill, 2013-2015
Graduate Teaching Assistant, Colorado State University, 2008-2012
Graduate Research Assistant, Colorado State University, 2010-2012

Honors

AI Fellow of the University of North Carolina 2025
NARSAD Young Investigator Award, 2016
Selected Young Investigator, Young Investigator Symposium for Psychiatry Research Day, UNC, 2014.
Outstanding Science Student in the College of Natural Sciences, Spring 2010.
Wishing Chair Fellow, Spring 2009.

Bibliography

- Dickinson A, Booth M, Huberty S, Ryan D, Campbell A, Girault JB, Miller NC, Lau BK, Zempel JM, Webb SJ, Elison JT, Lee AK, Estes AM, Dager SR, Hazlett HC, Wolff JJ, Schultz R, Marrus N, Evans AC, Piven J, Pruett JR Jr, Jeste SS; IBIS Network. (2026). Visual Cortical Response Variability in Infants at High Familial Likelihood for Autism. *Dev Sci.* Sep;29(5):e70266. doi: 10.1111/desc.70266. PMID: 42557909; PMCID: PMC13444209.
- Fox, N. A., Pérez-Edgar, K., Morales, S., Campbell, A. M., Cavanagh, J. F., Gabard-Durnam, L. J., ... & Garner, B. M. (2024). The development and structure of the HEALthy Brain and Child Development (HBCD) Study EEG protocol. *Developmental Cognitive Neuroscience*.
- Dickinson, A., Booth, M., Daniel, M., Campbell, A., Miller, N., Lau, B., ... & Jeste, S. (2024). Multi-site EEG studies in early infancy: Methods to enhance data quality. *Developmental Cognitive Neuroscience*, 69, 101425.
- Peterson, E. J., Rosen, B. Q., Belger, A., Voytek, B., & Campbell, A. M. (2023). Aperiodic neural activity is a better predictor of schizophrenia than neural oscillations. *Clinical EEG and Neuroscience*, 54(4), 434-445.
- Andersen E, Prim J, Campbell A, Schiller C, Baresich K, Girdler S. (2023). Biobehavioral mechanisms underlying testosterone and mood relationships in peripubertal female adolescents. *Development and Psychopathology*.
- Glier, S., **Campbell, A.**, Corr, R., Pelletier-Baldelli, A., & Belger, A. (2022). Individual differences in frontal alpha asymmetry moderate the relationship between acute stress responsivity and state and trait anxiety in adolescents. *Biological Psychology*, 108357.

- Glier, S., **Campbell, A.**, Corr, R., Pelletier-Baldelli, A., Yefimov, M., Guerra, C., ... & Belger, A. (2022). Coordination of autonomic and endocrine stress responses to the Trier Social Stress Test in adolescence. *Psychophysiology*, e14056.
- Corr, R., Glier, S., Bizzell, J., Pelletier-Baldelli, A., **Campbell, A.**, Killian-Farrell, C., & Belger, A. (2022). Stress-related hippocampus activation mediates the association between polyvictimization and trait anxiety in adolescents. *Social cognitive and affective neuroscience*, 17(8), 767-776.
- Corr, R., Glier, S., Bizzell, J., Pelletier-Baldelli, A., **Campbell, A.**, Killian-Farrell, C., & Belger, A. (2022). Triple Network Functional Connectivity During Acute Stress in Adolescents and the Influence of Polyvictimization. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
- Corr, R., Pelletier-Baldelli, A., Glier, S., Bizzell, J., **Campbell, A.**, & Belger, A. (2021). Neural mechanisms of acute stress and trait anxiety in adolescents. *NeuroImage: Clinical*, 29, 102543.
- Campbell, A. M.**, Elbogen, E.B., Johnson, J.L., Hamer, R.M., Belger, A. (2020). Event related potentials indexing the influence of emotion on cognitive processing in veterans with comorbid post-traumatic stress disorder and traumatic brain injury, *Clinical Neurophysiology*
- Campbell, A. M.**, Mattoni, M., Mae, N. Y., Adapa, K., & Mazur, L. M. (2020). Improving Cognitive Workload in Radiation Therapists: A Pilot EEG Neurofeedback Study. *Frontiers in Psychology*, 11, 3246.
- Kratzke, I. M., **Campbell, A.**, Yefimov, M. N., Mosaly, P. R., Adapa, K., Meltzer-Brody, S., & Mazur, L. M. (2020). Pilot study using neurofeedback as a tool to reduce surgical resident burnout. *Journal of the American College of Surgeons*, 232(1), 74-80.
- Mazur, L., **Campbell, A.M.**, Mosalay, P., Adapa, K., Kratzke, I., Marks, L., Meltzer-Brody, S., Farrel, T. (2019). Reducing surgical residents' burnout using Neurofeedback. *ISE*, September.
- Andersen, E., **Campbell, A.**, Girdler, S., Duffy, K., & Belger, A. (2019). Acute stress modifies oscillatory indices of affective processing: Insight on the pathophysiology of schizophrenia spectrum disorders. *Clinical Neurophysiology*, 130(2), 214-223.
- Nethery, R.C., **Campbell, A.M.**, Truong, Y. (2018). Assessing EEG Resting State Connectivity using Independent Component Analysis. Paper presented at 7th Annual International Conference on Cognitive and Behavioral Psychology, Singapore, GSTF, Singapore.
- King, E., **Campbell, A.**, Belger, A., & Grewen, K. (2017). Prenatal Nicotine Exposure Disrupts Infant Neural Markers of Orienting. *Nicotine & tobacco research: official journal of the Society for Research on Nicotine and Tobacco*.
- Mazur, L., **Campbell, A.M.**, Planting, D., Scott, B., Lowen, S., Mosalay, P., Belger, A., McCreery, J., Chera, B., Marks, L. (2017). Neurofeedback as a Means to Reduce Workload and Improve Performance during Provider-Computer Interactions. *Practical Radiation Oncology*.
- Mazur, L.M., **Campbell, A.**, Planting, D., Scott, B., Lowen, S., Mosaly, P., Belger, A., McCreery J., Chera, B., Marks, L. (2017). Positive Effects of Neurofeedback Intervention on Radiation Oncology Physicians' Workload during Go/No-Go Performance Test. *Travail Humain*. 80(1):113-132.
- Benning SD, Kovac M, **Campbell A**, Miller S, Hanna EK, Damiano CR, Sabatino-DiCriscio A, Turner-Brown L, Sasson NJ, Aaron RV, Kinard J, Dichter GS. (2016). Late Positive Potential ERP Responses to Social and Nonsocial Stimuli in Youth with Autism Spectrum Disorder. *Journal of Autism and Developmental Disabilities*, 46(9):3068-77.
- Campbell, A. M.**, & Davalos, D. B. (2015). Levels of attention and task difficulty in the modulation of interval duration mismatch negativity. *Frontiers in psychology*, 6.

- Andersen, E.A., **Campbell, A.M.**, Schipul, S.E., Donkers, F.C.L., Bellion, C.M., Evans, A.M., Belger, A. (2015). Electrophysiological correlates of attentional and affective processing disparities in schizophrenia patients and first-degree relatives. *Schizophrenia Research*.
- Foster, S. M., M. A. Kisley, Hasker, P.D., Diede, N.T., **Campbell A.M.**, Davalos, D.B. (2013) Cognitive function predicts neural activity associated with pre-attentive temporal processing. *Neuropsychologia* 51(2), 211-219.
- Kisley, M.A., **Campbell, A.M.**, Larson, J.M., Naftz, A.E., & Davalos, D.B. (2011). The impact of verbal framing (“Negative?” vs. “Positive?”) on brain activity evoked by emotional images. *Emotion*.
- Campbell, A.M.**, Davalos, D.B., McCabe, D.M., Troup, L. (2011). Executive functions and extraversion. *Personality and Individual Differences*,
- Davalos, D. B., **Campbell, A.**, & Pala, A. (2009). Postpartum depression. Effects on the mother-infant relationship and child development. *International Public Health Journal*, 1(2), 129-140.
- Davalos, D. B., **Campbell, A.**, Pala, A. (2009). Maternal depression and the effects on mother child bonding during the early years. In: *Psychology of Relationships* (Cuyler & Ackhart), New York: Nova Science Publishers.
- Campbell, T., **Campbell, A.** (2007). Emerging disease burdens and the poor in cities of the developing world. *Journal of Urban Health*, 84(1), 54-64.

Technology Development

- Founder & Scientific Lead, **Sonder** – Developed an adaptive digital emotional assessment prototype; completed the Eshelman Innovation Program.
- TELO Patent – Telescoping EEG housing case.
- PsyClone – Emotional AI digital twins developed as part of UNC AI fellowship.

Invited Talks

- Campbell, AM.** (2026). “Signals of Emotion.” Annual ANT Neuro Meeting. Philadelphia, PA.
- Campbell, AM.** (2025). “Waves of Emotion: EEG Markers of Emotional Processing Across Development and Mental Health.” 3rd annual HBCD Summer Seminar Series.
- Campbell, AM.** (2024). “Brain Network Neuroscience and EEG.” UNC EPIC (UNC Education Program of Intelligence and Connectomics, R25DA058940 to PI Wu). Chapel Hill, NC.
- Campbell, AM.**, Nicopolis-Yefimov, M., Murphy, L., Corr, R., Pelletier-Baldelli, A., Glier, S., Belger, A. (2020, May). Neuronal Networks Supporting Working Memory Shift With Stress in the “Stress in the Adolescent Brain: Structure, Function, and Links to Psychopathology Risk Symposium”, 32nd APS Annual Convention, Chicago, IL USA (*canceled due to COVID).
- Campbell, A.M.**, Mazur, L., Yefimov, M., Mosley, P. Meltzer-Brody, S., Farrell, T. (2019, July). Towards Better Understanding of Physician Burnout: Can Neurofeedback Help? Applied Human Factors and Ergonomics Conference, Washington D.C.
- Campbell, A.M.**, Schipul, S.E., Belger, A. (2014, November). Neural connectivity of executive and affective networks in schizophrenia patients and relatives. In A. Sawa (Chair), *Biomarkers for Psychosis: EEG and Imaging*. Nanosymposium conducted at the 44th meeting of the Society for Neuroscience, Washington, D.C.

Conference Presentations

Booth, A. H. Dickinson, A. K. Lee, A. Campbell, J. T. Elison, J. Pandey, J. Zempel, J. Piven, J. R. Pruett, S. Jeste, for the The IBIS Network. (2023). Methodological strategies for improving data quality and retention across multi-site studies of early EEG biomarkers in ASD. Poster presented at the annual INSAR conference Stockholm, Sweden.

CNS

ACC Meeting of the Minds conference

Campbell, A., Ferguson, A., Belger, A., Mucha, P. (2020). **Neuronal Networks Supporting Working Memory Shift with Stress.** Poster accepted for the 27th Annual Meeting of the Cognitive Neuroscience Society.

Glier, S., **Campbell, A.,** Nicopolis, M., Murphy, L., Pelletier-Baldelli, A., Walker, E., & Belger, A. (2020). Neuroendocrine Responses to Acute Psychosocial Stress are Predictive of Cognitive Disorganization in Adolescents. *Biological Psychiatry*, 87(9), S423-S424.

Pelletier-Baldelli, A., Corr, R., **Campbell, A.,** Glier, S., Bizzell, J., Belger, A. (2020). The Impact of Acute Stress on Dynamic Neural Circuits in Adolescence: Relationships to Psychosis-Related Symptomatology and Development. *Biological Psychiatry*. 87. S232.
10.1016/j.biopsych.2020.02.603.

Campbell, AM., Nicopolis-Yefimov, M., Murphy, L., Corr, R., Pelletier-Baldelli, A., Glier, S., Belger, A. (2019). Executive networks under emotional stress. Poster presented at the 26th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.

Harrop, C., **Campbell, A.,** Idichandy, L.*, Chen, Y.J.*, Baranek, G.T., & Belger, A. (May 2019). Auditory Event-Related Spectral Perturbations in Children with and without ASD. International Society for Autism Research Conference, Montreal, Canada

Campbell, A.M., Nicopolis, M., Graham, J., Killian-Farrell, C., Williams, A., Murphy, L., Belger, A. (2018). Electrophysiological markers of stress on working memory networks in adolescents. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Williams, A., Killian-Farrell, C., Graham, J., Waltz, H.R., **Campbell, A.,** Belger, A. (2018). Imaging stress effects on working memory in adolescents at risk. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Graham, J., Killian-Farrell, C., Williams, A., **Campbell, A.,** Belger, A. (2018). Anxiety modulates autonomic regulation and neural activation during high-load working memory following acute stress in adolescence. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Killian-Farrell, C., Williams, A., Graham, J., **Campbell, A.,** Belger, A. (2018). Stress Effects on Neural Circuitry Maturation in Children With Arousal Related Psychopathology. *Biological Psychiatry*, New York, NY.

Campbell, A.M., Nicopolis, M., Murphy, L., Belger, A. (2017). Stress Interactions with Working Memory in Adolescence. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Andersen, E., **Campbell, A.,** & Belger, A. (2017). 543. Dysregulated Affective Neural Processing in Schizophrenia Patients and Controls following Psychosocial Stress Exposure. *Biological Psychiatry*, 81(10), S220.

Campbell, A.M., Davalos, D.E., (2016). Comparing emotional information changes neural and behavioral emotional responses. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.

Rosen, B.Q., Peterson, E., **Campbell, A.M.,** Belger, A., Voytek, B. (2016). Spectral 1/f noise differences account for apparent oscillatory band-specific effects in Schizophrenia. Poster presented at the 46th annual meeting of the Society for Neuroscience, San Diego, CA.

Andersen, E.H., **Campbell, A.M.,** Schipul, S.E., Belger, A. (2015). Converging evidence of aberrant neural synchrony in schizophrenia and relatives. Poster presented at the 45th annual meeting of the Society for Neuroscience, Chicago, IL.

- King, E.M., **Campbell, A.M.**, Belger, A., Grewen, K. (2015). The effects of prenatal nicotine exposure on the evoked K-complex in infants. Poster presented at the annual Triangle Society for Neuroscience meeting, Research Triangle Park, NC.
- Creese, A., **Campbell, A.M.**, Rogers, D.A., Belger, A., Elbogen, E. (2015). Informational processing in PTSD/TBI veterans with alcoholic behavior. Poster presented at the 16th annual celebration of undergraduate research symposium, Chapel Hill, NC.
- Schipul, S.E., **Campbell, A.M.**, Belger, A. (2014). Electrophysiology and functional magnetic resonance imaging measures of brain connectivity in schizophrenia during working memory task performance. Poster presented at the 21st annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Banz, B.C., **Campbell, A.M.**, Davalos, D.B. (2014). Neurophysiological traits across college drinkers and non-drinkers in response to a temporal auditory task. (2014). Poster presented at the 7th annual meeting of the Social and Affective Neuroscience Society, Denver, CO.
- Rogers, D.A., **Campbell, A.M.**, Creese, A., Belger, A. (2014). Electrophysiological correlates of executive and affective processing in veterans with PTSD/TBI. Poster presented at the 15th annual celebration of undergraduate research symposium, Chapel Hill, NC.
- Andersen, E., Evans, A., **Campbell, A.**, Perkins, D., Donkers, F., Belger, A. (2013). Aberrant attentional and emotional processing in recently diagnosed schizophrenia patients and individuals at high familial risk. Poster presented at the 14th International Congress on Schizophrenia Research, Orlando, FL.
- Banz, B.C., **Campbell, A.M.**, Davalos, D.B. (2013). Mismatch negativity and binge drinking. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Campbell, A.M.**, Davalos, D.B. (2012). The influence of executive functions on emotional processing. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Chicago, IL.
- Medina, J.E., **Campbell, A.M.**, Davalos, D.B. (2012). Electrophysiology of timing and cognition. Poster presented at the Celebrate Undergraduate Research Celebration, Colorado State University, Fort Collins, CO.
- Holmes, M., **Campbell, A.M.**, Davalos, D.B. (2012). Possible link between introversion and temporal processing. Poster presented at the Celebrate Undergraduate Research Celebration, Colorado State University, Fort Collins, CO.
- Holmes, M., **Campbell, A.**, Davalos, D., Kastnig, A., & Shea, E. (April, 2011). Possible link between introversion, neuroticism and timing. Poster presented at the 2011 Celebrate Undergraduate Research and Creativity session at Colorado State University, Fort Collins, CO.
- Jefferson, A., **Campbell, A.**, & Davalos, D. (April, 2011). Psychoticism, Neuroticism and Electrophysiological Responses to Emotional Images. Poster presented at the 2011 Celebrate Undergraduate Research and Creativity session at Colorado State University, Fort Collins, CO.
- Maichrowicz, R., Sinclair, C., **Campbell, A.**, & Davalos, D. (April, 2011). Attention and emotion regulation following mild traumatic brain injury via P2 and the LPP. Poster presented at the 2011 Celebrate Undergraduate Research and Creativity session at Colorado State University, Fort Collins, CO.
- Campbell, A.M.**, Davalos, D. B., Burnette, E. H. (April, 2010). Event related potentials of emotional images and personality variables. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Quebec, Canada.
- Davalos, D.B., **Campbell, A.M.**, McBroom, K. (April 2010). Event related potentials of temporal processes. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Quebec, Canada.
- Burnette, E.H., **Campbell, A.M.**, Davalos, D.B., Banz, B. (April 2010). Event related potentials of emotional pictures with personality variables. Poster presented at the annual meeting of the Rocky Mountain Psychological Association, Denver, CO.

- Knapp, A., **Campbell, A.M.**, Davalos, D.B. (April 2010). Attention deficit hyperactivity disorder and personality. Poster presented at the annual meeting of the Rocky Mountain Psychological Association, Denver, CO.
- McBroom, K., **Campbell, A.M.**, Davalos, D.B. (April 2010). MMN and temporal processes. Poster presented at the annual meeting of the Rocky Mountain Psychological Association, Denver, CO.
- Harris, K. K., **Campbell, A.M.**, Lott, M. A., Tregillus, S., & Davalos, D. B. (April, 2009). The negativity bias: Effects of framing and mental imagery. Poster accepted for the 23rd Annual Symposium on Career Opportunities in Biomedical Sciences and Health Professions, Louisville, KY.
- Campbell, A.M.**, Davalos, D. B., Banz, B. C., Lott, M. A., Burnette, E. H. (April, 2009). Event related potentials of emotional pictures. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Campbell, A.M.**, Davalos, D. B., Banz, B. C., Lott, M. A., Burnette, E. H. (April, 2009). Event related potentials of emotional images. Poster presented at the annual meeting of the Rocky Mountain Psychological Association, Albuquerque, NM and the Front Range Neuroscience Group, Fort Collins, CO.
- Banz, B.C., **Campbell, A.M.**, Lott, M. A., Burnette, E. H., & Davalos, D. B. (April, 2009). Event related potentials to alcohol related stimuli in college-aged drinkers and non-drinkers. Poster accepted at the annual meeting of the Rocky Mountain Psychological Association, Albuquerque, NM and the Front Range Neuroscience Group, Fort Collins, CO.
- Burnette, E., **Campbell, A.**, Banz, B., Lott, M., Tregillus, S., & Davalos, D. B. (April, 2009). Affective framing and personality influences on event-related potentials of emotional stimuli. Poster presented at the Celebrate Undergraduate Research and Creativity Symposium, Fort Collins, CO
- Burr, H., Knapp, A., **Campbell, A.M.**, & Davalos, D. (April, 2009). A comparison of two set-shifting tasks. Poster presented at the Celebrate Undergraduate Research and Creativity Symposium, Fort Collins, CO
- Keener, K., **Campbell, A.M.**, & Davalos, D. (April, 2009). Temporal processing and executive functioning. Poster presented at the Celebrate Undergraduate Research and Creativity Symposium, Fort Collins, CO.
- Knapp, A., **Campbell, A.M.**, Burr, H., Matigian, M., & Davalos, D. (April, 2009). The relationship between cognitive inhibition and extraversion/introversion. Poster presented at the Celebrate Undergraduate Research and Creativity Symposium, Fort Collins, CO. College of Natural Sciences Honors Award.
- Pala, A., Yadon, C., **Campbell, A.**, Keener, K., & Davalos, D. (April, 2008). Prenatal maternal depression; Issues in assessment and neurophysiological effects on the developing fetus. Poster presented at the annual meeting of the Rocky Mountain Psychological Association, Boise, ID and the Celebrate Undergraduate Research and Creativity Symposium, Fort Collins, CO.

Note: Italicized name indicates mentorship of first author.

Teaching Experience

Psychology/Neuroscience Developmental Cognitive Neuroscience (Fall 2019). This undergraduate seminar focuses on current research and evidence for brain and behavior development from birth through early childhood.

Electroencephalography Research Core Class 2013-present. This didactic seminar covers all aspects of collecting and analyzing EEG and other biological measures. Each semester there is an introductory course for new researchers and special topics tailored to more advanced users. Current advanced topics include: combining EEG with other modalities in research, using mobile EEG, advanced EEG analytics.

Guest Lecturer, Introduction to Research in Network Data Science (Spring 2019). Over the course of two lectures, introduced neuroimaging methods, types of networks in neuroimaging, and the applications of networks to better describe and understand psychiatric disease. Co-lectured in a third presentation on presenting scientific research and the various mechanisms for scientific presentations.

Lab Instructor, Biological Psychology and Cognitive Neuroscience (Summer 2010 -Fall 2010)

Created lab materials, activities, behavioral experiments and electroencephalogram (EEG) experiments to improve instruction in neuroanatomy, neuropsychology and EEG. Worked with groups of students to design, conduct, analyze and present their own research.

Lab Instructor, Sensation and Perception (Fall 2008-Spring 2010, Fall 2012)

Guided sections of students through the methods of conducting psychophysical experiments across multiple modalities. Presented material related to the experimental topics of each lab. Also helped students develop a research project as a way for them to incorporate some of their own interests and questions with strong research techniques that they have learned in the lab. Also maintained course logistics.

Teaching Assistant, Mind, Brain and Behavior (Fall 2007-Spring 2008, Spring 2009, Spring 2010, 2011-2012). Presented course material related to motivation and goal oriented behavior, sensation and perception, and genetics. Coordinated tests, extra credit and grades.

Teaching Assistant, Research Methods (Spring 2008). Developed lectures and presented lectures on writing papers, statistics, and current topics in cognition. Helped to write and administer exams, graded exams and papers.

Guest Lecturer, Biopsychology and Cognitive Neuroscience labs (Spring 2008, Fall 2009, Spring 2009, Spring 2011). Developed programs for ERP studies for the lab class and showed how to use several of the EEG systems.

Guest Lecturer, Measurement and Testing (Spring 2009 and Fall 2010)

Introduced more biological based measures to the class as well as taught about and provided examples of measurement and testing in cognitive neuroscience, personality surveys and intelligence testing.

Lab and Research Training Mentorship**Graduate Student Mentees**

Sarah Glier – MD/PhD student expected graduation 2022. Current projects include assessing alterations in resting state activity from an acute stressor in adolescents.

Rachel Corr – PhD student expected graduation 2023. Rotation project included source localization of working memory responses.

Undergraduate Student Mentees – I have supervised and trained over a hundred undergraduates on a range of neurocognitive projects. This list represents students who have presented research at a conference.

Elizabeth
Burnette*
Kelsey Keener**
Alex Knap**
KrisAnn
McBroom
Hilary Burr*
Abbie Jefferson

Alex Yang^
Ashley Creese*
Danielle
Rogers*
Louis Murphy
Erin King*^
Allie Pardun
Carissa Mayer

Cameron Miller
Sam Trejellis
Rawan Ajeen*^
Meagan Holmes
Adelaide Zhao*
Addison
Troutman^
Dami Joloaso

Jacob Medina*
Arielle Moore**
Julia Louw
Nicholas Laplant
Rachel Bleggi^
Jessica Harvey^

Won an award for the research presented is represented by **, multiple presentations
*, ^ honor's thesis.

Other Supervision**Dissertation Committee Member**

Sarah Glier 2022, Shaina Roth, 2021, Jon Parsons, 2020, Rachel Nethery, 2017

Master's Thesis Committee Member

Jenna Cody, 2019

Honors Thesis Committee

Kelly Duffy, 2016; Carina Guerra, 2018, Rachel Bleggi, 2020, Alex Yang, 2020, Rachel Bleggi, 2020, Jessica Harvey 2021, Kirina Shih 2024,

Research Experience for Undergraduates 2009-2012

Mentored students in their research work for this NSF funded summer program. Let the statistical software seminar for all students in the program.
Students mentored: Kwamie Harris, Mikaela Maxwell.

Grants

R21MH135511 CAMPBELL (MPI), CALHOUN, (MPI), ANDERSEN, (MPI)
Social Media Use and Rejection in Adolescent Females 2026-
2029

2023
Major Goals: Investigate novel social media network characteristics and individual responses to social media use to identify aspects of social media use and engagement that underlie risk for depression.
Role: MPI

R01DC021174	Kasari, Boyd	2024-2029
EMERGE: Early Markers of Expressive and Receptive (language) Growth in Ethnically diverse autistic toddlers		

Major Goals: To examine the 18-36 month old language development window in autistic children using neural and behavioral measures at the same point in time and over time.

Role: Co-I

FOH 2028	Campbell (PI)	2026-
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2020
 ADEMO: Neural synchrony in parent-child dyads of emotional responses and interactions
 Major Goals: Investigate the individual and dyadic interactions of emotional responses within and between parents and children and how they relate to anxiety symptoms.
 Role: PI

U01DA055344 5/6 – 2031	Lin & Engle (PIs)	2026
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HBCD Prenatal Experiences and Longitudinal Development (PRELUDE) Consortium
NIDA

Major Goals: The objectives of our HEALthy Brain and Child Development (HBCD) Prenatal Experiences and Longitudinal Development (PRELUDE) consortium are to characterize typical trajectories of brain development from birth through childhood, measuring the influence of key biologic and environmental factors and their interactions on child social, cognitive, and emotional development.
Role: co-Investigator, EEG lead

U01HD116463	Hazelett (PI)	2025-2030
The Infant Down Syndrome Brain and Behavior Study		

In this project, the Infant Brain Imaging Study, a team with over 15 years' of experience in infant neuroimaging, will collect comprehensive, state-of-the-art brain and behavioral data in infants with DS at ages 6, 12, and 24 months, with collection at five clinical sites across the U.S. These data will allow identification and tracking of early brain differences in DS and their relationships to behavior, which can help guide intervention research aimed at improving developmental outcomes.

Role: Co-I

NC TraCS Pilot Neural in the Virtual Examine electrophysiological and physiological responses to emotional scenarios in virtual reality. Role: PI	Campbell(PI)	2022-2023
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R01 MH121462 Jeste (PI) 12/01/2019 – 12/01/2026
Toward Scalable Biomarker-based Prediction of ASD in High-Risk Infants
As an add-on to a recently funded study of MRI predictors of autism spectrum disorder (ASD) in high familial risk (HR) infants, we propose to use electroencephalography (EEG) and eye tracking (ET) biomarkers to test more scalable predictors of ASD in this same cohort. This project holds promise for more accurate, early, presymptomatic identification and more timely early intervention for HR infants.
Role: co-Investigator

R01 MH103790-01A1 Belger, Aysenil (PI) 07/20/15-05/31/21
Stress Regulation, Working Memory, and Cognitive Disorganization in Adolescence
The goal of this study is to understand the neurophysiological processes that contribute to cognitive disorganization in adolescents at risk for psychosis, and the role of abnormal stress regulation in the onset of cognitive decline and psychotic symptom emergence between ages 9-16.
Role: Co-I

U54 HD079124 Piven (PI) 9/24/2020-6/30/25
NICHD
Clinical Translational Research Center for Neurodevelopmental Disorders
This proposal has the overarching goal of supporting and promoting research relevant to understanding the pathogenesis and treatment of neurodevelopmental disorders.
Role: Investigator

24182 Campbell (PI) 11/3/2015-2020
National Alliance for Research on Schizophrenia and Depression (NARSAD)
Neural synchrony of executive and affective processing in schizophrenia
The overall goal of this project is to understand the neurobiological substrates of dynamic interactions between cognitive and affective domains in psychosis. Understanding the interaction between these domains could reveal networks susceptible for deficits or interactions that may be preserved and a potential target for treatment intervention in SCZ.
Role: PI

R18 HS025597 Mazur (PI) 04/01/18-06/31/21
Agency for Healthcare Research and Quality (AHRQ) \$176,868
Simulation-Based Research to Enhance Performance of Radiation Therapist
The specific aim of this proposal is to develop and assess the impact of and generalized simulation based training and neurofeedback intervention on radiation therapists (RTTs) mental workload, situation awareness and performance.
Role: Investigator

Sleep Innovation Grant Campbell (PI) 11/2018-2019
Applying EEG and Behavioral Methods to Understand Sleep Issues in Infants At-Risk for Autism.
Sleep issues are some of the first observed problems in autism spectrum disorders (ASD), persist throughout childhood, and are of urgent concern for families. This project will connect sleep electrophysiology, sleep questionnaires, and overnight sleep measures of videosomnography and actigraphy to study sleep in infants at high and low risk for ASD. By studying infants, we can explore and identify early of sleep deficits in ASD.

ASF CAPD Belger (PI) 11/2018-11/2019
Autism Speaks Foundation
Understanding pathways to auditory processing disorders in infants at high risk for ASD.
This project investigates the hierarchical contribution of auditory processing, from tones, to syllables, to words and how these may differentially relate to symptoms in ASD.
Role: Co-PI

R01 MH082004

Perkins (PI)

09/25/14-6/30/20

NIH

5/9: Predictors and Mechanisms of Conversion to Psychosis

The multi-site collaboration will follow large CHR (n= 378) and demographically matched comparison (n= 162) samples that will undergo comprehensive assessments of biological and behavioral changes. This approach will answer important questions about the origins of the brain changes that give rise to psychosis and will provide insights into likely approaches to halting or mitigating the pathological process and advance our understanding of risk prediction, both critical steps in prevention.

Role: Investigator

R21 DA031316

Grewen (PI)

3/15/12-2/28/15

NIH

Perinatal nicotine and auditory evoked potentials in early infancy

Our goal is to identify and refine a neurophenotype of nicotine's detrimental effects on the developing brain, in order to inform early interventions in this at-risk population. We plan to use acquired findings to support an application for more detailed, longitudinal study.

Role: Investigator

W81XWH-11-1-0796

Elbogen (PI)

9/30/11-9/29/15

US Army Medical Research

Neural markers and rehabilitation of executive functioning in veterans with TBI and PTSD

The goal of this project is to characterize brain function and connectivity impairments associated with deficient cognitive control and emotion regulation in veterans with post-traumatic stress disorder (PTSD). This research may suggest additional avenues for assessment of clinical intervention efficacy and the identification of therapeutic targets (e.g. alteration of function in fronto-limbic circuits) relevant to the military population.

Role: Investigator

Service

Dissertation committee member for students in Statistics and Operations Research, Psychology and Neuroscience, Neuroscience, Mathematics.

Oliver Smithies Nobel Symposium organizer (2014)

Graduate Student Council, representative from Psychology department (Fall 2009-Spring 2011)

Search Committee, Graduate Student Representative, for Department Chair, Psychology (Spring 2011)

EEG Lab Coordinator and Manager (Spring semesters of 2009, 2010, 2011)

Graduate Curriculum Committee, Graduate Student Representative (Fall 2007-Spring 2008)