

# Ashley F. P. Sanders

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## Academic Positions

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### University of Georgia

ASSISTANT PROFESSOR, DEPARTMENT OF PSYCHOLOGY

Athens, GA

2024-present

## Education

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### Washington University in St. Louis

POSTDOCTORAL RESEARCH SCHOLAR

- NIMH T32: *Developmental Neuroimaging and Child Psychopathology*. PIs: Joan Luby and Deanna Barch

St. Louis, MO

2020-2024

### University of New Orleans

PH.D. IN APPLIED BIOLOGICAL PSYCHOLOGY (Minor: Statistics)

- Dissertation: *Structural connectivity and immunological correlates of emotion processing in children with chromosome 22q11.2 deletion syndrome*. PI: Elliott A. Beaton

New Orleans, Louisiana

2014 - 2019

### Loyola University New Orleans

B.S. IN BIOLOGICAL SCIENCES

New Orleans, Louisiana

2008 - 2011

## Peer-Reviewed Publications

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Beebe, J.L., Martin, C.R., Sanders, A.F.P., Guidry, J., Faheem, F., Atallah, J., & Beaton, E.A. (2024). catechol-O-methyltransferase allelic variation in relation to psychological and hormonal indices of stress in children and adolescents with chromosome 22q11.2 deletion syndrome (22q11.2DS). *Journal of Applied Genetics* (1-6).

Sanders, A.F.P., B., Seider, N. A., Triplett, R. L., Lean, R. E., Neil, J. J., Miller, J.P., Tillman, R., Smyser, T.A., Barch, D.M, Luby, J.L, Chen, E., Miller, G. E. (2024). Prenatal exposure to maternal disadvantage-related inflammatory biomarkers: associations with neonatal white matter microstructure. *Translational Psychiatry*, 14(1), 72.

Weissman, D.G., Baum, G.L., Sanders, A.F.P., Rosen, M.L., Barch, D.M., McLaughlin, K.M., & Somerville, L.H. (2023). Family income is not significantly associated with T1w/T2w ratio in the Human Connectome Project in Development. *Imaging Neuroscience* 1(1-10).

Sanders, A.F.P., Harms, M.P., Kandala, S., Marek, S., Somerville, L.H., Bookheimer, S.Y., Dapretto, M., Thomas, K.M., Van Essen, D.C., Yacoub, E., & Barch, D.M. (2023). Age-related differences in resting-state functional connectivity from childhood to adolescence. *Cerebral Cortex*, 33(11), 6928-6942.

Sanders, A.F.P., Hobbs, D.A., Knaus, T.A., & Beaton, E.A. (2023). Structural connectivity and emotion recognition impairment in children and adolescents with chromosome 22q11.2 deletion syndrome. *Journal of Autism and Developmental Disorders*, 53(10), 4021-4034.

Herzberg, M.P., Hennefield, L., Luking, K.R., Sanders, A.F.P., Vogel, A.C., Kandala, S., Tillman, R., Luby, J., & Barch, D.M. (2022). Family income buffers the relationship between childhood adverse experiences and putamen volume. *Developmental Neurobiology* 83(1-2), 28-39.

Barch, D.M., Hua, X., Kandala, S., Harms, M.P., Sanders, A.F.P., Brady, R., Tillman, R., & Luby, J. (2022). White matter alterations associated with lifetime and current depression in adolescents: Evidence for cingulum disruptions. *Depression and Anxiety*, 39(12), 881-890.

**Sanders, A.F.P.**, Baum, G.L., Harms, M.P., Kandala, S., Bookheimer, S.Y., Dapretto, M., Somerville, L.H., Thomas, K.M., Van Essen, D.C., Yacoub, E., & Barch, D.M. (2022). Developmental trajectories of cortical thickness by functional brain network: The roles of pubertal timing and socioeconomic status. *Developmental Cognitive Neuroscience*, 57, 101145.

Baum, G.L., Flourney, J.C., Glasser, M.F., Harms, M.P., Mair, P., **Sanders, A.F.P.**, Barch, D.M., Buckner, R.L., Bookheimer, S.Y., Dapretto, M., Smith, S., Thomas, K.M., Yacoub, E., Van Essen, D.C., & Somerville, L.H. (2022). Graded variation in T1w/T2w ratio during adolescence: Measurement, caveats, and implications for development of cortical myelin. *Journal of Neuroscience*, 42(29), 5681-5694.

Barch, D.M., Donahue, M.R., Elsayed, N.M., Gilbert, K., Harms, M.P., Hennefield, L., Herzberg, M., Kandala, S., Karcher, N., Jackson, J.L., Luking, K.R., Rappaport, B.I., **Sanders, A.F.P.**, Taylor, R., Vogel, A.C., Whalen, D., & Luby, J. (2021). Early childhood socioeconomic status and cognitive and adaptive outcomes at the transition to adulthood: The mediating role of gray matter development across 5 scan waves. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 7(1), 34-44.

**Sanders, A.F.P.**, Hobbs, D.A., Stephenson, D.D., Laird, R.D., & Beaton, E. A. (2017). Working memory impairments in chromosome 22q11.2 deletion syndrome: The roles of anxiety and stress physiology. *Journal of Autism and Developmental Disorders*, 47(4), 992-1005.

Kelley, L., **Sanders, A.F.P.**, & Beaton, E.A. (2016). Vitamin D deficiency, behavioral atypicality, anxiety and depression in children with chromosome 22q11.2 deletion syndrome. *Journal of Developmental Origins of Health and Disease*, 1, 1-10.

Scott, B.G., **Sanders, A.F.P.**, Graham, R.A., Banks, D.M., Russell, J.D., Berman, S.L., & Weems, C.F. (2014). Identity distress among youth exposed to natural disasters: Associations with level of exposure, posttraumatic stress, and internalizing problems. *Identity: An International Journal of Theory and Research*, 14(4), 255-267.

## Conference Presentations

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Zhaolong, A.L., Ray, M.K., **Sanders, A.F.P.**, Yuqi, C., Marek, S., & Hershey, T. (September 2024). Weight Indices and Basal Ganglia Microstructure from Childhood to Early Adolescence. Presented at 2024 Flux Congress, Baltimore, MD.

**Sanders, A.F.P.**, Tirado, B., Seider, N., Triplett, R., Lean, R., Neil, J., Miller, P., Tillman, R., Barch, D., Luby, J., Rogers, C., Smyser, C., Warner, B., Chen, E., & Miller, G. (April 2023). Prenatal exposure to maternal disadvantage-related inflammatory biomarkers: Associations with neonatal white matter connectivity. Presented at 2023 Society of Biological Psychiatry Annual Meeting, San Diego, CA.

**Sanders, A.F.P.**, Harms, M.P., Kandala, S., Somerville, L.H., Van Essen, D.C., & Barch, D.M. (April 2022). Developmental changes in network-level and subcortical participation coefficient: The moderating role of socioeconomic status. Presented at 2022 Society of Biological Psychiatry Annual Meeting, New Orleans, LA.

**Sanders, A.F.P.**, Hobbs, D.A., Stephenson, D.D., & Beaton, E.A. (April 2022). Structural connectivity in relation to emotional face processing in children and adolescents with chromosome 22q11.2 deletion syndrome. Presented at 2022 Society of Biological Psychiatry Annual Meeting, New Orleans, LA.

**Sanders, A.F.P.**, Harms, M.P., Somerville, L.H., Mair, P., Bookheimer, S., Buckner, R., Dapretto, M., Thomas, K., Van Essen, D.C., Woods, R., Yacoub, E., & Barch, D.M. (September 2020). Developmental trajectories of cortical thickness by functional network. Presented at 2020 Flux Conference (Virtual).

Buck, S.A., Winston, J.L., **Sanders, A.F.P.**, Reichman, N.B., Beaton, E.A., & Colombo, P.J. (April 2019). Effect of musical experience on cortisol and interleukin-6 response to acute psychological

stress. Presented at 2019 Greater New Orleans Science and Engineering Fair, New Orleans, LA.

Crowley, M., Fox, N., Schmidt, L., Poole, K., Beaton, E., Hobbs, D., **Sanders, A.F.P.**

Understanding children's social anxiety: Multiple models and multiple mechanisms. (March 2019). Submitted paper symposium for the 2019 Society for Research in Child Development Biennial Meeting, Baltimore, MD.

Varela, E., Beaton, E., Kamps, J., Quintana, J., **Sanders, A.F.P.**, Dupont, R., Pucci, G., & Harris, B. (October 2018). Parent and self-reports of anxiety and cortisol levels in youth diagnosed with autism spectrum disorder. Presented at the 2018 National Conference in Clinical Child and Adolescent Psychology, Kansas City, MO.

Hobbs, D.A., Stephenson, D.D., **Sanders, A.F.P.**, & Beaton, E.A. (May 2017). Reduced lingual volume is associated with deficient working memory in children with chromosome 22q11.2 deletion syndrome. Won 2nd place in its category. Presented at the Louisiana Psychological Association Annual Convention, Kenner, LA.

Daigle, A.M., Manale, B., Medina, M.J., Hobbs, D.A., Stephenson, D.D., **Sanders, A.F.P.**, & Beaton, E.A. (May 2017). Piloting a new method for measuring cerebellar volume in children with neurodevelopmental disorders. Won 2nd place in its category. Presented at the Louisiana Psychological Association Annual Convention, Kenner, LA.

Manale, B., Daigle, A.M., Hobbs, D.A., Stephenson, D.D., **Sanders, A.F.P.**, Medina, M.J., & Beaton, E.A. (May 2017). Children with chromosome 22q11.2 deletion syndrome have smaller putamen than typically developing children. Presented at the Louisiana Psychological Association Annual Convention, Kenner, LA.

Mobley, J.M., Hobbs, D.A., **Sanders, A.F.P.**, Stephenson, D.D., & Beaton, E.A. (May 2017). Mothers report elevated separation anxiety in children with chromosome 22q11.2 deletion syndrome. Presented at the Louisiana Psychological Association Annual Convention, Kenner, LA

Khan, A., Poole, H., Cooper, N., Beaton, E., **Sanders, A.**, & Sheldon, S. (August 2016). Measuring the impact of a fall break on stress physiology in first year engineering students. Presented at the 20th Annual Meeting of the Society for Behavioral Neuroendocrinology, Montreal, Quebec.

**Sanders, A.F.P.**, Stephenson, D.D., Hobbs, D.A., Burleigh, L.M., Bacigalupi, R.G., & Beaton, E.A. (May 2016). Anxiety mediates working memory impairments in children with Chromosome 22q11.2 Deletion Syndrome. Presented at the Society of Biological Psychiatry 71st Annual Scientific Meeting, Atlanta, GA.

Beaton, E.A., **Sanders, A.F.P.**, Hobbs, D.A., & Stephenson, D.D. (May 2016). Salivary cortisol, dehydroepiandrosterone, and alpha-amylase in children with Chromosome 22q11.2 Deletion Syndrome in response to a stressful math task. Presented at the Society of Biological Psychiatry 71st Annual Scientific Meeting, Atlanta, GA.

Poole, H., Agnew, M., Khan, A., Sandor, J., Cooper, N., Beaudette, S., Sheldon, S., Beaton, E., **Sanders, A.**, Basharat, B., Modi, A., & Wiener, J. (December 2015). One week, many ripples: Measuring the impacts of the McMaster fall break on student stress physiology. Presented at the Research on Teaching Learning Conference, McMaster University, Hamilton, Ontario.

Beaton, E.A., **Sanders, A.F.P.**, Tountas, A.M., & Stephenson, D.D. (May 2015). Elevated cytokine activity in anxious children with Chromosome 22q11.2 Deletion Syndrome following a mild stressor. Presented at the Society of Biological Psychiatry 70th Annual Scientific Meeting, Toronto, Ontario.

**Sanders, A.F.P.**, Pizzitolo, A.P., Scott, B.G., Graham, R.A., Banks, D.M., Russell, J.D., & Weems, C.F. (May 2013). Does posttraumatic stress exacerbate the link between identity and internalizing problems in adolescents? Presented at the 25th Association for Psychological Science Annual Convention, Washington, D.C.

Scott, B.G., Russell, J.D., **Sanders, A.F.P.**, & Weems, C.F. (May 2013). Developmental variation in amygdala volumes among children with posttraumatic stress. Presented at the 25th Association

for Psychological Science Annual Convention, Washington, D.C.

Sanders, A.F.P., Wee, J.L., & Rines, J.A. (August 2009). An annual survey of Chaetoceros species in an oligohaline subtropical estuary. Presented at the 20th North American Diatom Symposium Annual Convention, Milford, I.A.

## Grants

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### NICHD K99/R00 (submission: June 2023)

ROLE: PRINCIPAL INVESTIGATOR

- Title: *Altered cerebellar development as a path linking childhood disadvantage to predictive processing mechanisms*
- Impact score: 28
- Fundable score but withdrew application due to accepting faculty position at UGA

## Professional Affiliations

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Flux Society 2023-2024

Society of Biological Psychiatry 2022-2024

## Honors & Awards

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Andrew S. Wensel Distinguished Graduate Student University of New Orleans 2017

Excellence in Psychology University of New Orleans 2016

Richard Frank Research Grant Loyola University New Orleans 2009 - 2011

## Teaching Experience

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### Instructor | Psychology of Stress

UNIVERSITY OF GEORGIA, DEPARTMENT OF PSYCHOLOGY

Athens, GA

Fall 2024

### Instructor | General Psychology

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Spring 2016; Fall 2018

### Instructor | Human Sexual Behavior

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Summer 2018

### Graduate Teaching Assistant | Personality Psychology

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Spring 2018

### Graduate Teaching Assistant | Introduction to Statistics

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Fall 2017

### Graduate Teaching Assistant | Human Sexual Behavior

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Summer 2017

### Graduate Teaching Assistant | Introduction to Biopsychology

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Spring 2017

- Guest Lectures: Neural Development; Brain Damage and Plasticity

### Graduate Teaching Assistant | Motivation and Emotion

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

New Orleans, LA

Spring 2017

**Graduate Teaching Assistant | Sensation and Perception**

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

- Guest Lecture: Spatial Vision

*New Orleans, LA*

*Spring 2017*

**Departmental Academic Advisor**

UNIVERSITY OF NEW ORLEANS, DEPARTMENT OF PSYCHOLOGY

*New Orleans, LA*

*2016 - 2017*