

Ashley Nicole Barrows

Educational History:

B.S., May 2023, The University of Tennessee, Knoxville

Majors: Honors Neuroscience as well as Biochemistry & Cellular and Molecular Biology (BCMB)

Thesis: "Neural correlates of infant attention during initial exposure to own- and other-race faces"

Mentor: Gregory Reynolds, Ph.D.

January – May 2022, University College of Dublin, Ireland

Major: Science

Research Experience:

2023 – 2025

Position: Lab Manager and Research Specialist

Lab: Population Neuroscience and Genetics (PNG) Center

Institute: Laureate Institute for Brain Research (LIBR), Tulsa, OK.

Mentor(s): Wesley Thompson, Ph.D. and Chun Chieh Fan, M.D., Ph.D.

2019 – 2023

Position: Undergraduate Research Assistant

Lab: Developmental Cognitive Neuroscience (DCN) Lab

Institute: The University of Tennessee, Knoxville

Mentor(s): Gregory Reynolds, Ph.D.

Peer Reviewed Journal Articles:

**In press*

Barrows, A. N., Slivka, L., Clayton, K., Roth, K., & Reynolds, G. (2025). Neural correlates of infant attention during initial exposure to own- and other-race faces. *Pursuit: The Journal of Undergraduate Research at The University of Tennessee*, 12(1), Article 1.

<https://doi.org/10.7290/pur12xmuj>

Available at: <https://trace.tennessee.edu/pursuit/vol12/iss1/1>

***Barrows, A. N.,** Fan, C. C., & Thompson, W. (2025). Opportunities and challenges in the analysis and interpretation of population neuroscience data. *Population Neuroimaging*. Elsevier.

Manuscripts in Preparation:

**Draft available upon request*

***Barrows, A.N.,** Zheng, H., Fan, C.C., (2024). Genome-Wide Association Study Identifies Variants Associated with Neural Pathway Morphology.

Professional Development & Certifications:

2020 – 2024	CITI (Collaborative Institutional Training Initiative) Program Training- Basic.
2020 – 2024	CITI Program Training- Responsible Conduct of Research; Social & Behavioral Research.
2023 – 2027	CITI Program Training- Conflicts of Interest.
2023 – 2027	CITI Program Training- Social and Behavioral Research Best Practices for Clinical Research.
2023	Data Science R Basics, HarvardX.

Professional Experience:

2023 – Present	Associate Editor, STEM Fellowship Journal.
2021 – 2023	Intern, Oklahoma Equality Law Center, Dennis R. Neill Equality Center, Tulsa, OK.
2020 – 2020	Note Taker, Student Disability Services, University of Tennessee, Knoxville, TN.

Professional Affiliations:

2020 – 2023	Service and Internal Diversity Chair, Alpha Kappa Psi Co-Ed Business Professional Fraternity, The University of Tennessee, Knoxville, TN.
2023 – 2025	Community Engagement Committee, Diversity Committee, Laureate Institute for Brain Research, Tulsa, OK.

Presentations at Scientific Meetings:

*Non presenting author

Barrows, A.N., Slivka, L.N., Clayton, K.R.H., Roth, K.C., Reynolds, G.D. (November 2022). Neural correlates of infant attention during initial exposure to own- and other- race faces. Poster presentation at the NeuroNET Fall Retreat, University of Tennessee, Knoxville, TN.

Barrows, A.N., Slivka, L.N., Clayton, K.R.H., Roth, K.C., Reynolds, G.D. (March, 2023). [Neural correlates of infant attention during initial exposure to own- and other- race faces](#). Poster presentation at The Society for Research in Child Development (SRCD), Salt Lake City, UT.

*Clayton, K.R.H, Slivka, L.N., **Barrows, A.N.**, Reynolds, G.D. (March 2023). [Exploring the Role of High and Low Spatial Frequencies in the Development of Infant Selective Attention to Faces](#). Poster presentation at The Society for Research in Child Development (SRCD), Salt Lake City, UT.

Barrows, A.N., Slivka, L.N., Clayton, K.R.H., Roth, K.C., Reynolds, G.D. (April 2023). Neural correlates of infant attention during initial exposure to own- and other- race faces. Poster presentation at The University of Tennessee Exhibition of Undergraduate Research and Creative Achievement (EURECA), Knoxville, TN.

Barrows, A.N., Slivka, L.N., Clayton, K.R.H., Roth, K.C., Reynolds, G.D. (May 2023). Neural correlates of infant attention during initial exposure to own- and other- race faces. Poster presentation at The University of Tennessee Psychology Departmental Spring Celebration, Knoxville, TN.

Barrows, A., Shao, L., Xu, B., Loughnan, R., Ahern, J., Thompson, W., Fan, C., Yeh, F-C., Zheng, H., (November 2024). Genome-Wide Association Study Identifies Variants Associated with Neural Pathway Morphology. Poster presentation at Research Day at Laureate Institute for Brain Research (LIBR), Tulsa, OK.

Barrows, A., H. Zheng, W. Thompson, C. Fan, (September 2024) Prenatal environmental exposures and cortical surface development. Poster presentation at HBCD Annual Meeting, San Diego, CA.

*Emily Werder, Stephanie Engel, Heather Burris, Heather Volk, Chun Chieh Fan, **Ashley Barrows**, (September 2024) Geospatial environmental exposures in the HEALthy Brain and Child Development (HBCD) Study. Poster presentation at HBCD Annual Meeting, San Diego, CA.

Barrows, A., Shao, L., Xu, B., Loughnan, R., Ahern, J., Thompson, W., Fan, C., Yeh, F-C., Zheng, H., (November 2024). Genome-Wide Association Study Identifies Variants Associated with Neural Pathway Morphology. Poster presentation at the American Society for Human Genetics (ASHG), Denver, CO.

Invited Presentations and Seminars:

Nov 3, 2023 Women in STEM Panelist. Sonia Kovalevsky Day, Tulsa Regional STEM

Alliance (TRSA).

Honors and Awards:

2016	Presidential Service Award- Silver Level, AmeriCorps.
2017	Presidential Service Award- Silver Level, AmeriCorps.
2018	Presidential Service Award- Gold Level, AmeriCorps.
2019	Presidential Service Award- Gold Level, AmeriCorps.
2022	Best undergraduate poster presentation, NeuroNET Retreat, University of Tennessee.
2023	Travel Award, Office of Undergraduate Research & Fellowships, University of Tennessee.
2023	Travel Award, Department of Psychology, University of Tennessee.
2023	Nu Rho Psi Neuroscience Honor Society, University of Tennessee.
2023	Service Medallion, University of Tennessee.
2023	Volunteer of Distinction, University of Tennessee.
2023	Distinction in Undergraduate Research, University of Tennessee.
2023	Honors Concentration in Neuroscience, University of Tennessee.

Outreach:

2020	Brain Awareness Week, Advancements of Neuroscience at The University of Tennessee.
2021	Brain Awareness Week, Advancements of Neuroscience at The University of Tennessee.
2024	Science Discovery Class, Sonshine Camp at Oklahoma United Methodist Camping Ministry.
2024	Science Class, Boston Avenue United Methodist Church.

Membership:

2020 – 2023	Advancements in Neuroscience, University of Tennessee.
2020 – 2023	Leading Women of Tomorrow, University of Tennessee.
2022 – 2023	Neuroscience Network of East Tennessee (NeuroNET).
2020 – 2023	Child Development Research Group (CDRG).
2023 – 2024	Society for Research in Child Development (SRCD).
2023 – 2025	Oklahoma Neuroscience Chapter.
2024 – 2025	American Society of Human Genetics (ASHG).