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Professional appointments

Position	Organization	Year(s)
Director	Center for Methodology, Evaluation, and Applied Statistics for University Research and Education (C-MEASURE)	2024-present
Associate Professor	Department of Psychology, Middle Tennessee State University	2023-present
Assistant Professor	Department of Psychology, Middle Tennessee State University	2018-2023
Postdoctoral Research Fellow	Department of Biomedical Engineering, The University of Akron	2016-2018

Education

Degree	University	Thesis topic	Year(s)
Doctor of Philosophy, Adult Development & Aging Psychology	The University of Akron	Aging and context effects in working memory: An event-related potential investigation	2013-2016
Master of Arts, Adult Development & Aging Psychology	The University of Akron	Behavioral and neurophysiological associates of aging and emotional word recognition	2011-2013
Bachelor of Science, Psychology	The Ohio State University	-	2007-2011

Accepted Manuscripts (Student mentees underlined)

1. **Houston, J.R.**, Rogers, T. D., Kirkpatrick, T. M., Robison, A. M., Throm, A. G., Burgess, S. M., Klinge, P. M., Sakaie, K., Vorster, S. J., Luciano, M. G., Loth, F., & Allen, P. A. (2026). High-Resolution Diffusion Tensor Imaging of the Cerebellum and Brainstem in Chiari Malformation Type I: Association with Cognitive Function and Pain. *The Cerebellum*, 25(2), 45.
2. Allen, P. A., Kaut, K. P., **Houston, J.R.**, Houston, M. L., Rabinowitz, E. P., Delahanty, D. L., & Klinge, P. M. (2025). Episodic Memory, Chiari I Malformation, Personality and Coping: The Role of Chronic Pain. *Behavioral Sciences*, 15(12), 1678.

3. Kirkpatrick, T.M., & **Houston, J.R.** (2025). Assessing the Relationship Between Religious Beliefs and Death Anxiety: An Explorative Study. *Innovation in Aging*, 9(Supplement_2), igaf122.3063.
4. Robison, A., & **Houston, J.R.** (2025). The Impact of Stereotype Threat on Technology Usage in Older Adults. *Innovation in Aging*, 9(Supplement_2), igaf122.3667.
5. Al Samman, M.M., Garcia, M.A., García, M., Houston, J.R., Loth, D., Labuda, R., Vorster, S., Klinge, P.M., Loth, F., Delahanty, D.L., & Allen, P.A. (2023). Relationship of Morphometrics and Symptom Severity in Female Type I Chiari Malformation Patients with Biological Resilience. *The Cerebellum*.
6. Salinas, S.D., Farra, Y.M., Khoiy, K.A., **Houston, J.R.**, Lee, C.-H., Bellini, C., & Amini, R. (2022). The role of elastin on the mechanical properties of the anterior leaflet in porcine tricuspid valves. *PLOS ONE*, 17(5), e0267131.
7. **Houston, J.R.**, Maleki, J., Loth, F., Klinge, P.M., Allen, P.A. (2022). Influence of pain on cognitive dysfunction and emotion dysregulation in Chiari Malformation Type I. In: Adamaszek, M., Manto, M., Schutter, D.J.L.G. (Eds.), *The Emotional Cerebellum. Advances in Experimental Medicine and Biology*, 1378. Springer, Cham.
8. Houston, M.L., **Houston, J.R.**, Sakaie, K., Klinge, P.M., Vorster, S., Luciano, M.G., Loth, F., & Allen, P.A. (2021). Functional connectivity abnormalities in Type I Chiari: Associations with cognition and pain. *Brain Communications*. 3(3), fcab137.
9. García, M., Eppelheimer, M.S., **Houston, J.R.**, Houston, M.L., Nwotchouang, B.S., Kaut, K.P., Labuda, R., Bapuraj, J.R., Maleki, J. Klinge, P.M., Vorster, S., Luciano, M.G., Loth, F., & Allen, P.A. (2021). Adult age differences in self-reported pain and anterior CSF space in Chiari Malformation. *Cerebellum*. 21, 194-207.
10. Garcia, M.A., Li, X., Allen, P.A., Delahanty, D.L., Eppelheimer, M.S., **Houston, J.R.**, Johnson, D.M., Loth, F., Maleki, J., Vorster, S., & Luciano, M.G. (2021). Impact of surgical status, loneliness, and disability on Interleukin 6, C-Reactive Protein, cortisol, and estrogen in females with symptomatic Type I Chiari Malformation. *Cerebellum*. 20(6), 872-886.
11. Mallik, P.R., Allen, P.A., Lien, M-C., Jardin, E., Houston, M.L., **Houston, J.R.**, & Jurosic, B.K. (2021). An electrophysiological study of aging and perceptual letter-matching. *Experimental Aging Research*. 47(1), 92-108.
12. **Houston, J.R.**, Hughes, M.L., Bennett, I.J., Allen, P.A., Rogers, J.M., Lien, M-C., Stoltz, H., Sakaie, K., Loth, F., Maleki, J., Vorster, S.J., & Luciano, M.G. (2020). Evidence of neural microstructure abnormalities in Type I Chiari Malformation: Associations among fiber tract integrity, pain, and cognitive dysfunction. *Pain Medicine*. 21(10), 2323-2335.
13. Nwotchouang, B.S., Eppelheimer, M., Ibrahimy, A., **Houston, J.R.**, Biswas, D., Labuda, R., Bapuraj, J.R., Allen, P.A., Frim, D., & Loth, F. (2020). Clivus length distinguishes between asymptomatic healthy controls and symptomatic adult women with Chiari Malformation Type I. *Neuroradiology*. 62(11), 1389-1400.

14. **Houston, J.R.**, Allen, N.J., Eppelheimer, M.S., Bapuraj, J.R., Biswas, D., Allen, P.A., & Loth, F. (2019). Evidence for sex differences in morphological abnormalities in Type I Chiari Malformation. *The Neuroradiology Journal*, 32(6), 458-466.
15. Garcia, M.A., Allen, P.A., Li, X., **Houston, J.R.**, Loth, F., Labuda, R., & Delahanty, D.L. (2019). An examination of pain, disability, and the psychological correlates of Chiari Malformation pre- and post-surgical correction. *Disability and Health Journal*. 12(4), 649-656.
16. Jardin, E., Allen, P.A., Levant, R.F., Lien, M-C., McCurdy, E.R., Villalba, A., Mallik, P., **Houston, J.R.**, & Gerdes, Z.T. (2019). Electrophysiological evidence of emotional processing deficits in alexithymia. *Journal of Cognitive Psychology*. 31(5-6), 619-633.
17. **Houston, J.R.**, Allen, P.A., Rogers, J.M., Lien, M-C., Allen, N.J., Hughes, Bapuraj, J.R., Eppelheimer, M.S., Loth, F., Stoodley, M.A., Vorster, S.J., & Luciano, M.G. (2019). Type I Chiari Malformation, RBANS performance, and brain morphology: Connecting the dots on cognition and macro-level brain structure. *Neuropsychology*, 33(5), 725-738.
18. Eppelheimer, M.E., Biswas, D., Braun, A.M., **Houston, J.R.**, Allen, P.A., Bapuraj, J.R., Labuda, R., Loth, D.M., Frim, D., & Loth, F. (2019). Quantification of changes in brain morphology following posterior fossa decompression surgery in women treated for Chiari malformation type 1. *Neuroradiology*, 6(9), 1011-1022.
19. Biswas, D., Eppelheimer, M., **Houston, J.R.**, Ibrahimy, A., Bapuraj, J.R., Labuda, R., Allen, P.A., Frim, D., & Loth, F. (2019). Quantification of cerebellar crowding in Type I Chiari Malformation. *Annals of Biomedical Engineering*, 47(3), 731-743.
20. Allen, P.A., Hughes, M.L., **Houston, J.R.**, Jardin, E., Mallik, P., McLennan, C., & Delahanty, D.L. (2019). Are there age differences in consolidated episodic memory? *Experimental Aging Research*, 45(2), 97-119.
21. **Houston, J.R.**, Hughes, M.L., Lien, M-C., Martin, B.A., Loth, F., Luciano, M., Vorster, S., & Allen, P.A. (2018). An electrophysiological study of cognitive and emotion processing in Type I Chiari Malformation. *The Cerebellum*, 17(4), 404-418.
22. **Houston, J.R.**, Pollock, J.W., Lien, M.-C., & Allen, P.A. (2018). Emotional arousal deficit or emotional regulation bias? An electrophysiological study of age-related differences in emotion perception. *Experimental Aging Research*, 44(3), 187-205.
23. Eppelheimer, M.S., **Houston, J.R.**, Bapuraj, J.R., Labuda, R., Loth, D.M., Braun, A.M., Allen, N.J., Heidari Pahlavian, S., Biswas, D., Urbizu, A., Martin, B.A., Maher, C.O., Allen, P.A., & Loth, F. (2018). A retrospective morphometric analysis of adult female Chiari Type I patients with commonly reported and related conditions. *Frontiers in Neuroanatomy*, 12, 2.
24. **Houston J.R.**, Eppelheimer M.S., Heidari Pahlavian S.H., Biswas D., Urbizu A., Martin B.A., Bapuraj J.R., Luciano M., Allen P.A., Loth F. (2018). A morphometric assessment of Type I Chiari malformation above the McRae Line: A retrospective case-control study in 302 adult female subjects. *Journal of*

Neuroradiology, 45(1), 23-31.

25. Allen, P.A., Delahanty, D., Kaut, K.P., Li, X., Garcia, M., **Houston, J.R.**, Tokar, D.M., Loth, F., Maleki, J., Vorster, S., & Luciano, M.G. (2018). Chiari 1000 Registry Project: Assessment of surgical outcome on self-focused attention, pain, and delayed recall. *Psychological Medicine*, 48(10), 1634-1643.
26. **Houston, J.R.**, Bennett, I.J., Allen, P.A., & Madden D.J. (2016). Visual acuity does not moderate effect sizes of higher-level cognitive tasks. *Experimental Aging Research*, 42(3), 221-263.
27. Zelin, A.I., Erchull, M.J., & **Houston, J.R.** (2015). Is everybody doing it? Perceptions and misperceptions of sexual behavior in the college freshman population. *Gender Issues* 32(3), 139-163.
28. Allen, P.A., **Houston, J.R.**, Pollock, J.W., Buzzelli, C., Li, X., Harrington, A.K., Martin, B.A., Loth, F., Lien, M-C., Maleki, J., & Luciano, M.G. (2014). Task-specific and general cognitive effects in Chiari Malformation Type 1. *PLoS ONE*, 9(4), e94844.

Manuscripts in preparation (Student mentees underlined)

1. Lamancusa, K., Allen, P.A., Hall, R.J., **Houston, J.R.**, Houston, M.L., Lien, M-C., & Hayslip Jr., B. (revision under review). Does creative potential decrease through middle adulthood? *Experimental Aging Research*.
2. Ealy, D.M., Perssico, K.P., Allen, P.A., & **Houston, J.R.** (in preparation). Macro-level cerebellar tonsil morphology is not associated with Type I Chiari cognition and pain symptomatology.
3. **Houston, J.R.**, Houston, M.L., Ealy, D.M., Lien, M-C., & Allen, P.A. (in preparation). Aging and context effects in working memory: An event-related potential investigation.

Invited presentations

1. **Houston, J.R.** (2026). Neural Microstructure Associates of Cognitive and Pain Symptomatology in Chiari Malformation Type I. Talk presented at the Chiari Research Open House, Boston, MA.
2. Allen, P.A., **Houston, J.R.**, & Loth, F. (2023). Psychological implications in adults with Chiari Malformation Type I. Talk presented at the Annual Meeting Bobby Jones CSF Research Colloquium, Washington, DC.
3. **Houston, J.R.**, & Grissom, L. (2022) Taking steps to maintain a healthy brain as we age. Talk presented at the 1st MTSU Positive Aging Consortium Meeting, Murfreesboro, TN.
4. García, M., Eppelheimer, M.S., **Houston, J.R.**, Houston, M.L., Nwotchouang, B.S.T., Kaut, K.P., Labuda, R., Bapuraj, J.R., Maleki, J., Klinge, P.M., Vorster, S.J., Luciano, M.G., Loth, F., & Allen, P.A. (2020). Adult age differences in pain in

- Chiari Malformation: The mediating effect of decreasing anterior CSF area. Talk presented at the Annual Meeting Bobby Jones CSF Research Colloquium.
5. **Houston, J.R.** (2019). Exploring the current perspectives on cognitive and emotional aging: What does the research suggest about our aging minds? Keynote presented at the Annual Meeting for the Middle Tennessee Psychological Association, Murfreesboro, TN.
 6. Allen, P.A., & **Houston, J.R.** (2017). Proposal of a “Cerebellar” Cognitive Test Battery – Adult Perspective. Talk presented at the 2nd Annual Cerebrospinal Fluid Disorders Symposium, Providence, RI.
 7. Allen, P.A., & **Houston, J.R.** (2014). Influence of Chiari Malformation I on affective and cognitive performance. Talk presented at the International Conquer Chiari Research Conference, Akron, OH.

Peer-reviewed presentations (Student mentees underlined)

1. **Houston, J.R.**, Kirkpatrick, T.M., Robison, A.M., Burgess, S.M., Throm A.G., Key, E.M., Sanford, T.W., Smith, M.G., Prante, E.E., Mert, G., Rogers, T.D., & Allen, P.A. (2026). High resolution diffusion tensor imaging of the cerebellum and brainstem in Type I Chiari Malformation: Associations with attention and pain. Poster presented at the Annual Meeting for the Cognitive Neuroscience Society, Vancouver, BC.
2. Houston, M.L., Kirkpatrick, T.M., **Houston, J.R.**, Gifford, K.A., Pechman, K.R., Sashikumar, N., Landman, B., Moore, E.E., Hohman, T.J., Jefferson, A.L., & Allen, P.A. (2026). White Matter Integrity and Creativity in the Aging Mind. Poster presented at the Annual Meeting for the Cognitive Neuroscience Society, Vancouver, BC.
3. Key, E., & **Houston, J.R.** (2026). Neural Mechanisms of a Brief, Short Body Scan Meditation and the Influence on Cognitive Performance & Perceived Stress. Poster presented at the Annual Meeting for the Cognitive Neuroscience Society, Vancouver, BC.
4. Kirkpatrick, T.M., & **Houston, J.R.** (2025). Assessing the Relationship Between Religious Beliefs and Death Anxiety: An Explorative Study. Poster presented at The Gerontological Society of America's 78th Annual Scientific Meeting, Boston, MA.
5. Robison, A.M., Fahey, M., & **Houston, J.R.** (2025). Stereotype Threat and Technology Use in Older Adults. Poster presented at The Gerontological Society of America's 78th Annual Scientific Meeting, Boston, MA.
6. Ealy, D.M., Robison, A.M., Cochrane, M.A., Ibrahim, M.A., Burgess, S.M., Throm, A.G., Kirkpatrick, T.M., Key, E.M., & **Houston, J.R.** (2024). Overcoming fixation during creative idea generation through cognitive flexibility priming: Evidence from a lifespan sample. Poster presented at the Annual Meeting for the Psychonomic Society, New York, NY.
7. Ealy, D.M., Adaliku, C.A., Perssico, K., Allen, P.A., & **Houston, J.R.** (2023). Voxel-

- based morphometry analysis of grey matter in Chiari Malformation. Poster presented at the Annual Midwestern Psychological Association Conference, Chicago, IL.
8. Strong, R., Key, E., Allen, E., Finch, A., Ealy, D.M., Maldonado, E., Perssico, K., Nieberle, K.W., & **Houston, J.R.** (2023). Leader and follower identity invention: The effect of identity priming. Poster presented at the Annual Midwestern Psychological Association Conference, Chicago, IL.
 9. Allen, E., Strong, R., Maldonado, E., Ealy, D.M., Key, E., Finch, A., Perssico, K., Nieberle, K.W., & **Houston, J.R.** (2023). Leader and follower identity invention: The effect of primed social support. Poster presented at the Annual Midwestern Psychological Association Conference, Chicago, IL.
 10. Armfield, B., Hein, M., Van Hein, J. **Houston, J.R.**, & Frame, M.C. (2023). Validating the use of short-term memory capacity for selecting highway patrol officers. Symposium paper presented at the Annual Society for Industrial and Organizational Psychology Conference, Boston, MA.
 11. Houston, M.L., **Houston, J.R.**, Vorster, S.C., Luciano, M.G., Loth, F., & Allen, P.A. (2019). Investigating the relationship between cognitive function and neural connectivity in Type I Chiari malformation patients. Poster presented at the Annual Meeting for the Psychonomic Society, Montréal, QC.
 12. Allen, P.A., Lamancusa, K., **Houston, J.R.**, Hughes, M.L., & Lien, M-C. (2019). Creativity remains stable through 55 years of age. Poster presented at the Annual Meeting for the Psychonomic Society, Montréal, QC.
 13. Allen, P.A., **Houston, J.R.**, Hughes, M.L., Bennett, I.J., Loth, F., Rogers, J.M., Stoodley, M.A., Luciano, M.G., Vorster, S.J. (2019). Structural integrity and functional connectivity in Chiari Malformation Type I: The effects of pain and cognition. Talk presented at the 2nd Annual CSF Flow Meeting, Buffalo, NY.
 14. Eppelheimer, M.S., Biswas, D., Bapuraj, J.R., **Houston, J.R.**, Loth, D.M., Labuda, R., Allen, P.A., & Loth, F. (2019). Comparison of brain morphology for Chiari I Malformation subjects with and without Ehlers-Danlos Syndrome. Talk presented at the 2nd Annual CSF Flow Meeting, Buffalo, NY.
 15. Evitts, R., Frame, M.C., Jackson, A.T., & **Houston, J.R.** (2019). Narcissism and selection decisions: Do narcissists select narcissists? Poster presented at the Annual River Cities I-O Psychology Conference, Chattanooga, TN.
 16. Russell, M., Jackson, A.T., Hein, M.B., & **Houston, J.R.** (2019). Trouble at work: A model testing relationships among job strain, social support, cooperativeness, and well-being. Poster presented at the Annual River Cities I-O Psychology Conference, Chattanooga, TN.
 17. **Houston, J.R.**, Lien, M-C., Hughes, M.L., Mallik, P.R., & Allen, P.A. (2018). Aging and context effects in working memory: An event-related potential investigation. Poster presented at the Annual Meeting for the Psychonomic Society, New Orleans, LA.
 18. Hughes, M.L., Allen, P.A., Lute, S., & **Houston, J.R.** (2018). Creating the creative: What distinguishes creative older adults? Poster presented at the Annual

- Meeting for the Psychonomic Society, New Orleans, LA.
19. Hughes, M.L., **Houston, J.R.**, Lien, M-C., Vorster, S., Luciano, M.G., Loth, F., & Allen, P.A. (2017). Investigating neurological correlates of Chiari Malformation Type I symptomatology: A diffusion tensor imaging study of cognition and pain. Poster presented at the Annual Meeting for the Psychonomic Society, Vancouver, BC.
 20. Loth, F., **Houston, J.R.**, Biswas, D., Heidari Pahlavian S., Eppelheimer, M.S., Loth, D., Labuda, R., & Allen, P.A. (2017). A multi-disciplinary approach to the study of Type I Chiari Malformation. Talk presented at the Annual Winter Conference on Brain Research, Big Sky, MT.
 21. Biswas, D., Eppelheimer, M.S., **Houston, J.R.**, Braun, A., Labuda, R., & Loth, F. (2017). Morphometric analysis of the cerebellum in Type I Chiari Malformation. Symposium paper presented at the Annual Summer Biomechanics, Bioengineering, and Biotransport Conference, Tucson, AZ.
 22. Eppelheimer, M.S., **Houston, J.R.**, Heidari Pahlavian, S., Braun, A.M., Biswas, D., Loth, D.M., Urbizu, A., Labuda, R., Allen, P.A., & Loth, F. (2017). Brain morphometrics that provide a better understanding of Chiari Type I Malformation. Symposium paper presented at the Annual Summer Biomechanics, Bioengineering, and Biotransport Conference, Tucson, AZ.
 23. Jardin, E., Allen, P.A., Levant, R.F., Lien, M-C., McCurdy, E., Villalba, A., & **Houston, J.R.** (2016). Alexithymia in men? An electrophysiological investigation of emotional processing. Poster presented at the Annual Meeting for the Psychonomic Society, Boston, MA.
 24. **Houston, J.R.**, Allen, P.A., Luciano, M.G., Vorster, S., & Loth, F. (2016). Chiari Malformation and hyper-vigilance: An EEG study. Poster presented at the Annual Meeting for the Psychonomic Society, Boston, MA.
 25. Eppelheimer, M.S., Urbizu, A., **Houston, J.R.**, Heidari Pahlavian, S., Braun, A., Biswas, D., Allen, P.A., Labuda, R., & Loth, F. (2016). Semi-automatic image processing of craniospinal morphometrics for Chiari malformation. Talk presented at the Annual Biomedical Engineering Society Meeting. Minneapolis MN.
 26. **Houston, J.R.**, Rossmiller, A.C., & Allen, P.A. (2016). Case mixing does not modulate the Stroop effect. Poster presented at the Annual Midwestern Psychological Association Conference, Chicago, IL.
 27. Rossmiller, A.C., **Houston, J.R.**, & Allen, P.A. (2016). Testing the Stroop effect with grayscale stimulus presentation. Poster presented at the Annual Midwestern Psychological Association Conference, Chicago, IL.
 28. **Houston, J.R.**, Pollock, J.W., Lien, M-C., & Allen, P.A. (2015). An ERP investigation of age-related disruption of affective integration during the processing of emotional faces. Poster presented at the Annual Meeting for the Psychonomic Society, Chicago, IL.
 29. **Houston, J.R.**, Lien, M.-C., & Allen, P.A., (2014). Aging and the processing of emotional words, an event-related potential approach. Poster presented at The

Gerontological Society of America's 67th Annual Scientific Meeting, Washington, D.C.

30. **Houston, J.R.**, Bennett, I.J., Allen, P.A., & Madden D.J., (2014). Age group comparisons in cognitive aging: Do visual acuity criteria matter? Poster presented at The Gerontological Society of America's 67th Annual Scientific Meeting, Washington, D.C.
31. **Houston, J.R.** (2012). Cognitive slowing: Exploring the phenomenon. Talk presented at the Annual Ohio Association of Gerontology and Education Conference, Youngstown, OH.

Research and creative activity funding

Conquer Chiari Foundation: *Self-report and neurobiological characterization of headaches in Type I Chiari Malformation*

- Role: Principal Investigator
- Schedule: 2026-2027
- Total requested funds: \$57,022.00 Personal award amount: \$5,500.00
- Status: Funded

National Science Foundation IUSE: *TRANSFER-STEM TN: Transforming Access, Retention, and Success for Transfer Students in STEM*

- Role: Faculty Contributor
- Schedule: 2027-2029 (proposed)
- Total requested funds: Pending Personal award amount: N/A
- Status: Pending

National Science Foundation CAREER: *Variation in Instructional Communication and Engagement in Undergraduate STEM (VOICES)*

- Role: Program Evaluator
- Schedule: 2026-2030 (proposed)
- Total requested funds: ~\$450,000 Evaluation award amount: \$10,000.00
- Status: Pending

Department of Education EDCAPS: *Graduate AI Literacy Architecture (GALA)*

- Role: Program Evaluator
- Schedule: 2026-2030 (proposed)
- Total requested funds: ~\$500,000.00 Evaluation award amount: \$100,000.00
- Status: Not funded

National Science Foundation CDS&E-MSS: *Multi-View Representation Learning in 3D Neuroimaging for Multimodal Detection and Survival Analysis*

- Role: Co-Principal Investigator
- Schedule: 2026-2029 (proposed)
- Total requested funds: \$449,158.00 Personal award amount: \$13,779.00
- Status: Not funded

Tennessee Board of Regents SERS: *Columbia State Community College-Middle Tennessee*

State University Bridge Program

- Role: Faculty contributor, Program evaluator
- Schedule: 2025-2030 (proposed)
- Total requested funds: Pending Personal award amount: N/A
- Status: Pending

National Science Foundation CDS&E-MSS: *Transforming Alzheimer's Detection and Care with Advanced Machine Learning*

- Role: Co-Principal Investigator
- Schedule: 2025-2028 (proposed)
- Total requested funds: \$555,053.00 Personal award amount: \$26,008.00
- Status: Not funded

Conquer Chiari Foundation: *High Resolution Diffusion Tensor Imaging of the Cerebellum and Brainstem in Type I Chiari Malformation: Associations with Cognitive Function and Symptomatology.*

- Role: Principal Investigator
- Schedule: 2022-2025
- Total requested funds: \$26,008.00 Personal award amount: \$16,088.00
- Status: Funded

NIH R01: *Longitudinal Influence of Adult Age and Isolation on Chiari Malformation Symptoms.*

- Role: Co-Principal Investigator
- Schedule: 2021-2026 (proposed)
- Total requested funds: \$3,828,374.00 Personal award amount: \$131,256.00
- Status: Not funded

NIH R01: *Natural History of Middle Adulthood in Chiari Malformation Type I.*

- Role: Co-Principal Investigator
- Schedule: 2019-2024 (proposed)
- Total requested funds: \$3,830,288.00 Personal award amount: \$130,512.00
- Status: Not funded

Peer review responsibilities

Position	Journal(s)	Year(s)
Community Reviewer	Frontiers in Cognitive Science: Attention	2025-present
Review Editor	Frontiers in Cognitive Science: Attention	2022-2025
Consulting Editor	Experimental Aging Research	2020-present
Ad hoc Reviewer	Attention, Perception, and Psychophysics	2014-present

Brain Communications
 Brain Research
 Developmental Cognitive Neuroscience
 Experimental Aging Research
 Fluids and Barriers of the CNS
 Frontiers in Neurology
 Frontiers in Psychology
 Heliyon
 JAMA
 Journal of Cognitive Psychology
 Neuropsychology Review
 Physiology & Behavior
 Psychological Reports
 Scientific Reports
 Social Neuroscience
 Public Library of Science (PLOS)
 World Neurosurgery

Teaching experience

Position	Course	University	Year(s)
Associate Professor	Psychology 6290: Psychological Statistics: ANOVA	Middle Tennessee State University	2027-present
Associate Professor	Psychology 6640: Thesis Research	Middle Tennessee State University	2023-present
Associate Professor	Psychology 6600: Independent Research in Psychology	Middle Tennessee State University	2023-present
Associate Professor	Psychology 6590: Literature Review and Reading in Psychology	Middle Tennessee State University	2023-present
Associate Professor	Psychology 6570: Quasi-experimental Design in Behavioral Science	Middle Tennessee State University	2023-present
Associate Professor	Psychology 4630/5630: Death & Dying	Middle Tennessee State University	2023-present
Associate Professor	Psychology 4610/5610: Adult Development and Aging	Middle Tennessee State University	2023-present
Associate Professor	Psychology 3990: Independent Research in Psychology	Middle Tennessee State University	2023-present

Associate Professor	Psychology 3020: Basic Statistics for the Behavioral Sciences	Middle Tennessee State University	2023-present
Associate Professor	Psychology 2000: Careers in Psychology Seminar	Middle Tennessee State University	2023-present
Assistant Professor	Psychology 6640: Thesis Research	Middle Tennessee State University	2023
Assistant Professor	Psychology 4630/5630: Death & Dying	Middle Tennessee State University	2022-2023
Assistant Professor	Psychology 6600: Independent Research in Psychology	Middle Tennessee State University	2021-2023
Assistant Professor	Psychology 4610/5610: Adult Development and Aging	Middle Tennessee State University	2019-2023
Assistant Professor	Psychology 3990: Research in Psychology	Middle Tennessee State University	2019-2023
Assistant Professor	Psychology 3020: Basic Statistics for the Behavioral Sciences	Middle Tennessee State University	2019-2023
Assistant Professor	Psychology 3590: Personality	Middle Tennessee State University	2018-2023
Assistant Professor	Psychology 2300: Developmental Psychology	Middle Tennessee State University	2018-2023
Instructor of Record	Psychology 230: Developmental Psychology	The University of Akron	2014
Instructor of Record	Psychology 110: Quantitative Methods in Psychology	The University of Akron	2013
Instructor of Record	Psychology 100DL: Introduction to Psychology (Distance Learning)	The University of Akron	2013
Instructor of Record	Psychology 100H: Introduction to Psychology (Honors)	The University of Akron	2012
Instructor of Record	Psychology 100: Introduction to Psychology	The University of Akron	2011-2012

Graduate mentoring and advising

Student	Role	Topic	Year of Completion
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Mallory Smith	M.A. Thesis Chair	Old Age in the Digital Age #2	2027 (expected)
Deeyana Ahmed	M.A. Thesis Committee Member	Intersectionality and Sleep: How Intersectional Identity Becomes a Compounding Factor of Sleep Disturbance	2027 (expected)
Tara Kirkpatrick	M.A. Thesis Committee Member	Substance abuse in the older adult community	2026 (expected)
Elizabeth Key	M.A. Thesis Chair	Examining the associations between mindfulness and sensitivity to concentration disruption	2026
Madison Ramsby	M.A. Thesis Committee Member	Decoding intended speech from EEG data: A comparative study using medical-grade and portable EEG systems	2026
Claire Dobson	M.A. Thesis Committee Member	The Relationship Between Peer Rejection and Child Aggression: Sleep as a Moderator	2025
Anna Robison	M.A. Thesis Chair	Old Age in the Digital Age: The Impact of Stereotype Threat on Technology Usage in Older Adults	2025
Lauren Johnson	M.A. Thesis Committee Member	Evaluating the effects of acetylcholinesterase inhibitors and beta-blockers on verbal memory in patients with Alzheimer's Disease	2025
Andrea Chalut	M.A. Thesis Chair	Does remote work impact creativity in teams?	2024
Hannah Rogers	M.A. Thesis Chair	Creativity and idea generation in hybrid dyads	2024

Raif Al Mezraani	M.A. Thesis Chair	Creativity in pairs: Investigating the association between team member creativity and overall team creativity in dyads	2024
Cassie Patterson	M.A. Thesis Committee Member	Analyzing the effects of hemoglobin and red blood cell count on executive function in healthy older adults	2024
Denise Ealy	M.A. Thesis Chair	Examining the mechanisms of forgetting associated with age-related differences in creativity	2023
Brenna Armfield	M.A. Thesis Committee Member	Predicting job performance parameters from working memory performance	2022
Jennifer Johnson	M.A. Thesis Committee Member	Does emotion perception in music and speech prosody show a negative bias? A neural oscillation investigation	2021
Maitane García	Ph.D. Thesis Committee Member	Perfil neuropsicológico asociado a la Malformación de Chiari tipo I: implicaciones del cerebelo en el funcionamiento cognitivo	2021
Haylie Stoltz	M.A. Thesis Committee Member	Trauma's relation to neuropsychological functioning and the vulnerability of the LGB community	2020
Hao Ngo	M.A. Thesis Committee Member	Does growing up with technology enhance sensory integration?	2020
Richard Evitts	M.A. Thesis Committee Member	Narcissism and selection decisions: Do narcissists select narcissists?	2020
Meredith Russell	M.A. Thesis Committee Member	Trouble at work: A model testing relationships among job strain, social support, cooperativeness, and well-being	2020
Kara Ann Wilson	M.A. Thesis Committee Member	Priority and distinctiveness: enhancing free recall using categorical network	2019

Undergraduate mentoring and advising

Student	Role	Topic	Year of Completion
Elizabeth Lawrence	Honor's Thesis Committee Member	Prosody Perception in Older Adults: Exploring Links with Speech-in-Noise (SIN) Perception, Musical Rhythm, and Musical Training	2026
Allison Throm	Honor's Thesis Advisor	Interplay Between Pain, Age, and Cognition – Visual Search and N-Back Tasks	2025
Tara Kirkpatrick	Honor's Thesis Advisor	Death Anxiety and Religiosity: How Interreligious Values Change the Data	2024
Lisa Hardie	Honor's Thesis Advisor	Viewing Gender Differences in Emotional Response, Attention, and Memory Using EEG	2019
Natalie Wiswesser	Honor's Thesis Mentor	An Electrophysiological Study on Sex-Related Differences in Emotion Perception	2018
Jenna Jwayyed	Honor's Thesis Mentor	Cognitive correlates of refugee status	2016
Victoria Boni	Honor's Thesis Mentor	The Correlation between Depression and Exercise/Diet	2016
Ann Rossmiller	Honor's Thesis Mentor	The effects of selective attention on memory performance and studying	2016
Hannah Croft	Honor's Thesis Mentor	Sex Differences in Divided and Focused Attention: Are women better at multi-tasking?	2015
Heidi Honeck	Honor's Thesis Mentor	Global Precedence as a Function of Handedness	2014

University service responsibilities

Role	Organization	Year(s)
Member	Institutional Review Board	2025-present
Director	Center for Methodology, Evaluation, and Applied Statistics for University Research and Education (C-MEASURE)	2024-present
Member	MT-Internal Grant Opportunities committee	2023-present
Leadership	MTSU Positive Aging Consortium	2019-present
Member	MTSU Aging Studies	2019-present
Chair	Faculty Professional Development Travel Grant committee	2023-2024
Member	Faculty Professional Development Travel Grant committee	2022-2023
Chair	MT-Internal Grant Opportunities committee	2022-2023
Member	Faculty Research and Creative Activity committee	2020-2021

Departmental service responsibilities

Role	Organization	Year(s)
Member	Graduate Curriculum committee	2024-present
Member	Long-Range Planning committee	2019-present
Member	Tenure & Promotion committee	2025-2026
Member	Ad hoc Tenure-Track Search committee (Clinical Psychology)	2026-2027
Member	Ad hoc Tenure-Track Search committee (Clinical Psychology)	2025-2026
Member	Ad hoc Tenure-Track Search committee (Clinical Psychology)	2024-2025

Member	Ad hoc Tenure-Track Search committee (School Psychology)	2024-2025
Member	Ad hoc Tenure-Track Search committee (Industrial/Organizational Psychology)	2024-2025
Chair	Ad hoc Lecturer Search committee	2024
Member	Ad hoc Lecturer Search committee	2024
Member	Ad hoc Lecturer Search committee	2024
Member	Ad hoc Tenure-Track Search committee (Clinical Psychology)	2023-2024
Member	Ad hoc Tenure-Track Search committee (Industrial/Organizational Psychology)	2023-2024
Member	Ad hoc Lecturer Search committee	2023
Member	Ad hoc Research Space committee	2020-2024
Member	Ad hoc Visiting Professor Search committee	2023
Member	Ad hoc Tenure-Track Search committee (Clinical Psychology)	2022-2023
Member	Research Pool Users committee	2019-2023
Member	Social and Professional Activities committee	2019-2023
Member	Ad hoc Visiting Professor Search committee	2022
Member	Ad hoc Tenure-Track Search committee (School Psychology)	2021-2022
Member	Ad hoc Visiting Professor Search committee	2021

Co-chair	Ad hoc Tenure-Track Search committee (Cognitive Psychology/Developmental Psychology)	2020-2021
Member	Diversity, Inclusion, & Equity committee	2020-2021
Member	Faculty Liaison committee	2020-2021
Chair	Diversity, Inclusion, & Equity committee	2019-2020
Member	Ad hoc Tenure-Track Search committee (Sensation & Perception)	2019-2020

Professional memberships

Position	Organization	Year(s)
Member	Cognitive Neuroscience Society	2025-present
Fellow	Psychonomic Society	2020-present
Member	American Psychological Association Division 20: Adult Development and Aging	2020-present
Member	American Psychological Association Division 7: Developmental Psychology	2020-present
Member	Psychonomic Society	2016-2020
Student Member	Psychonomic Society	2014-2016

Additional service responsibilities

Role	Organization, Location	Year(s)
Invited Speaker	St. Clair Senior Center, Murfreesboro, TN	2019-present
Senior Thesis Mentor	Central Magnet High School, Murfreesboro, TN	2018-present
Project Judge	Middle Tennessee State University Invention Convention, Murfreesboro, TN	2019
Invited Speaker	Ohio State Graduate Fair in Psychology, Columbus, OH	2011-2015

Invited Speaker	Akron STEM school visitation day, Akron, OH	2015
District Mentor	Ohio State Science Fair, Akron, OH	2015
District Judge	Western Reserve District 5 Science Day, Akron, OH	2015
Treasurer	Gerontology Association, Akron, OH	2013-2014

Fellowships, scholarships, and awards

Title	Organization	Year(s)
Fellowship	Psychonomic Society	2020-present
Graduate Research Fellowship	The Conquer Chiari Foundation	2015-2016
Paul E. Panek Endowed Scholarship in Psychology	The University of Akron	2015-2016
Graduate Research Fellowship	The Conquer Chiari Foundation	2014-2015
Master's Thesis Research Scholarship	The University of Akron	2013
Graduate Student Travel Award	The University of Akron	2012
Pathways Academic Scholarship	The Ohio State University	2011
Provost Academic Scholarship	The Ohio State University	2011

Related training

Role	Organization	Year of completion
Certificate in Asynchronous Distance Learning	Middle Tennessee State University	2019
Certificate in Synchronous Distance Learning	The University of Akron	2013