

# Nathan L. Anderson

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## EDUCATION

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PhD, Psychological & Brain Sciences  
*Washington University in St. Louis* 2021

M.A., Psychological & Brain Sciences  
*Washington University in St. Louis* 2017

B.S., Human Biology  
B.S., Psychology  
*Michigan State University* 2012

## POSITIONS HELD

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Assistant Professor  
*Department of Psychology & Neuroscience Center, Brigham Young University* 2025-Present

Postdoctoral Scholar  
*Department of Neurology, Northwestern University Feinberg School of Medicine*  
Advisor: Rodrigo Braga 2021-2025

Instructor  
*Department of Psychological & Brain Sciences, Washington University in St. Louis*  
Course: Cognitive Neuroscience 2019

Teaching Assistant  
*Department of Psychological & Brain Sciences, Washington University in St. Louis*  
Courses: Cognitive Neuroscience 2018-2019  
Human Learning and Memory 2016

Research Assistant  
*Department of Psychological & Brain Sciences, Washington University in St. Louis*  
Advisor: Kathleen McDermott 2017

Lab Manager

*Department Of Psychology, Michigan State University*

Supervisor: Kimberly Fenn

2014-2015

## FUNDING SUPPORT

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NIH T32 Training Grant (NS047987). 2022-Present. PI: Ken Paller.

Mentoring relationships:

\* indicates undergraduate student

† indicates post-bac research assistant

‡ indicates graduate student

◆ indicates authors contributed equally

## PUBLICATIONS

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‡Salvo, J. J.◆, **Anderson, N. L.◆**, & Braga, R. M. (2024). Intrinsic functional connectivity delineates transmodal language functions. *Imaging Neuroscience*, 3, IMAG.a.25.

Kwon, Y.H, ‡Salvo, J.J., **Anderson, N.**, ‡Edmonds, D., ‡Holubecki, A.M., †Lakshman, M., Yoo, K., Yeo, B.T.T, Kay, K., Gratton, C., Braga, R.M. (2024). Situating the salience and parietal memory networks in the context of multiple parallel distributed networks using precision functional mapping. *Cell Reports*, 44(1).

‡Edmonds, D., ‡Salvo, J.J., **Anderson, N.**, †Lakshman, M., Yang, Q., Kay, K., Zelano, C., & Braga, R.M. (2024). Social cognitive regions of human association cortex are selectively connected to the amygdala. *Science Advances*, 10(47), eadp0453.

Barbieri, E., ‡Salvo, J.J., **Anderson, N.L.**, Simon, S., Ables-Torres, L., Behn, J., Bonakdarpour, B., †Holubecki, A., Braga, R.M., & Mesulam M-M. (2024). Primary Progressive Apraxia of Reading. *Cortex*, 178, 223-234.

Kucyi, A., **Anderson, N.**, Bounyarith, T., Braun, D., Shareef-Trudeau, L., Treves, I., Braga, R.M., Hsieh, P., & Hung, S. (2024). Individual variability in neural representations of mind-wandering. *Network Neuroscience*, 1-66.

Shintel, H., **Anderson, N.L.**, Fenn, K.M. (2014). Talk this way: The effect of prosodically conveyed semantic information on memory for novel words. *Journal of Experimental Psychology: General*, 143(4), 1437-1442.

## MANUSCRIPTS UNDER REVIEW

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**Anderson, N.L.**, ‡Salvo, J.J., Smallwood, J., & Braga, R.M. (2025). Distinct distributed brain networks dissociate self-generated mental states. *bioRxiv*, 2025-02.

‡Cyr, C., ‡Holubecki, A.M., †Shi, L., †Lakshman, ‡M., Salvo, J.J., **Anderson, N.L.**, Kragel, J.E., Lurie, S.M., Voss, J., Kokkinos, V., Rosenow, J., Schuele, S.U., Johnson, E., Zelano, C., & Braga, R.M. Targeting intracranial electrical stimulation to network regions defined within individuals causes network-level effects. *bioRxiv*, 2025-07.

## CONFERENCE TALKS

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McDermott, K., **Anderson, N.L.**, Gilmore, A.W. (2017). The Effect of Delay on Activation in the Parietal Memory Network. Annual Meeting of the Psychonomic Society, Vancouver, BC.

## PRESENTED POSTERS

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**Anderson, N.L.**, ‡Cyr, C., ‡Holubecki, A.M., †Shi, L., Smallwood, J., Schuele, S., Rosenow, J., Kokkinos, V., & Braga, R.M. (2024). Intracranial recordings reveal dynamics of distributed networks during mental imagery. Annual meeting of the Society for Neuroscience, Chicago, IL.

‡Salvo, J.J., **Anderson, N.L.**, & Braga, R.M. (2024). On the relationship between distributed association networks and category-preferring visual streams in the inferotemporal cortex. Annual meeting of the Society for Neuroscience, Chicago, IL.

Yang, Q., Zhou, G., Sagar, V., Lane, G., **Anderson, N.L.**, Braga, R.M., & Zelano, C. (2024). Context dependent odor processing in the human brain. Annual meeting of the Society for Neuroscience, Chicago, IL.

†Shi, L., ‡Cyr, C., **Anderson, N.L.**, ‡Holubecki, A.M., Johnson, E.L., Zelano, C., Smallwood, J., Schuele, S., Rosenow, J., Kokkinos, V., & Braga, R.M. (2024). Hippocampal ripples increase during mental imagery in humans. Annual meeting of the Society for Neuroscience, Chicago, IL.

†Shinn, A., ‡Salvo, J.J., **Anderson, N.L.**, †Shi, L., ‡Holubecki, A.M., Barbieri, E., Mesulam, M.M., & Braga, R.M. (2024). Within-individual estimation of the distributed language network in patients with primary progressive aphasia. Annual meeting of the Society for Neuroscience, Chicago, IL.

‡Salvo, J.J., **Anderson, N.L.**, & Braga, R.M. (2024). Mapping cerebellar language and visual word regions with functional magnetic resonance imaging. Annual meeting of the Organization for Human Brain Mapping, Seoul, South Korea.

**Anderson, N.L.**, ‡Salvo, J.J., †Lakshman, M., Smallwood, J., & Braga, R.M. (2024). Distinct distributed networks support visual and linguistic mental imagery. Annual Meeting of the Cognitive Neuroscience Society, Toronto, ON.

‡Salvo, J.J., **Anderson, N.L.**, Barbieri, E., Mesulam, M.M., & Braga, R.M. (2024). Cerebellar Lobules VII and VIII may causally participate in reading and language processing. Meeting of the Chicago Chapter of the Society for Neuroscience, Chicago, IL.

**Anderson, N.L.**, ‡Salvo, J.J., †Lakshman, M., Smallwood, J., & Braga, R.M. (2023) Transmodal distributed networks double-dissociate vividness of visual vs. auditory mental imagery. Annual Meeting of the Organization for Human Brain Mapping, Montreal, QC.

Kwon, Y., ‡Salvo, J.J., **Anderson, N.L.**, †Lakshman, M., Yoo, K., Kay, K., Gratton, C. & Braga, R.M. (2023) Characterizing the parietal memory network within the individual using functional connectivity at 7T. Annual Meeting of the Organization for Human Brain Mapping, Montreal, QC.

**Anderson, N.L.**, Dobbins, I.G., \*Ellis, E., & McDermott, K.B. (2020). Combining Natural Language and Machine Learning to Predict Aspects of Episodic Event Descriptions. Annual Meeting of the Psychonomic Society, Virtual.

Shintel, H., **Anderson, N.L.**, & Fenn, K.M. (2013) Talk this way: The effect of prosodically conveyed semantic information on memory for novel words. Annual Meeting of the Psychonomic Society, Toronto, ON.

## **SERVICE**

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### **Professional Memberships**

Cognitive Neuroscience Society  
Organization for Human Brain Mapping  
Society for Neuroscience  
Psychonomic Society