SHENYANG HUANG

Curriculum Vitae

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Google Scholar: https://scholar.google.com/citations?user=BZZ1XE4AAAAJ

EDUCATION

Duke University, Durham, NC — 2025
Doctor of Philosophy in Psychology and Neuroscience, Cognition & the Brain
Cumulative GPA: 4.00/4.00

Duke University, Durham, NC — 2023
Master of Arts in Psychology and Neuroscience, Cognition & the Brain
Cumulative GPA: 4.00/4.00

Duke University, Durham, NC — 2020
Bachelor of Science with Distinction in Neuroscience
Bachelor of Science in Mathematics
Cumulative GPA: 3.97/4.00
Summa Cum Laude

GRANTS, HONORS, & AWARDS

Cognitive Neuroscience Society Graduate Student Award	2025
E. Bayard Halstead Fellowship in Science, History & Journalism	2024 - 2025
Graduate Travel Award sponsored by the Charles Lafitte Foundation	2023 - 2024
Conference Travel Award sponsored by the Duke Graduate School	2023
Graduate Research Grant Award sponsored by the Charles Lafitte Foundation	2021
Duke Summer Neuroscience Program Fellowship	2019
Phi Beta Kappa Honor Society, top 1% of cohort	2019

PUBLICATIONS

[16] **Huang, S.***, Howard, C. M.*, Bogdan, P. C., Morales-Torres, R., Slayton, M., Cabeza, R., & Davis, S. W. (2025). Trial-level Representational Similarity Analysis. *eLife*, *14*. https://doi.org/10.7554/eLife.106694.1

[15] Bogdan, P. C., **Huang, S.**, Deng, L., S. W., & Cabeza, R. (*under review*). Intrinsic fluctuations in global connectivity reflect transitions between states of high and low prediction error. https://www.biorxiv.org/content/10.1101/2025.03.18.643969v2.abstract

[14] **Huang, S.**, Bogdan, P. C., Howard, C. M., Gillette, K., Deng, L., Welch, E., McAllister, M. L., Giovanello, K. S., Davis, S. W., & Cabeza, R. (*accepted*). Cortico-hippocampal interactions underlie schema-supported memory encoding in older adults. *Cerebral Cortex*.

[13] Slayton, M., Howard, C. M., **Huang, S.**, Hovhannisyan, M., Cabeza, R., & Davis, S. W. (*accepted*). Semantic Dimensions Support the Cortical Representation of Object Memorability. *Journal of Cognitive Neuroscience*.

[12] De Brigard, F., **Huang, S.**, Cabeza, R., Davis, S. W. (2025). Beyond task-based connectivity in fMRI:

Reply to comments on "Connectivity analyses for task-based fMRI" by Shenyang Huang, Felipe De Brigard, Roberto Cabeza, Simon W. Davis. *Physics of Life Reviews*, *54*, 211–214. https://doi.org/10.1016/j.plrev.2025.07.024

[11] Morales-Torres, R., Miceli, K., **Huang, S.**, Szpunar, K., & De Brigard, F. (2025). Episodic details are better remembered in plausible relative to implausible counterfactual simulations. *Psychonomic Bulletin & Review*, *32*, 1852-1859. https://doi.org/10.3758/s13423-025-02670-0

[10] Yu, C., **Huang, S.**, Howard, C. M., Hovhannisyan, M., Clarke, A., Cabeza, R., & Davis, S. W. (2024). Subsequent Memory Effects in Cortical Pattern Similarity Differ by Semantic Class. *Journal of Cognitive Neuroscience*, 1–12. https://doi.org/10.1162/jocn_a_02238

[9] Howard, C. M., **Huang, S.**, Hovhannisyan, M., Cabeza, R., & Davis, S. W. (2024). Differential Mnemonic Contributions of Cortical Representations during Encoding and Retrieval. *Journal of Cognitive Neuroscience*, 1–29. https://doi.org/10.1162/jocn_a_02227

[8] **Huang, S.**, De Brigard, F., Cabeza, R., Davis, S. W. (2024). Connectivity analyses for task-based fMRI. *Physics of Life Reviews*, *49*, 139–156. https://doi.org/10.1016/j.plrev.2024.04.012

[7] **Huang, S.***, Faul, L.*, Parikh, N., LaBar, K. S., De Brigard, F. (2024). Counterfactual thinking induces different neural patterns of memory modification in anxious individuals. *Scientific Reports*, *14*(1), 10630. https://doi.org/10.1038/s41598-024-61545-x

[6] **Huang, S.**, Paul, U., Gupta, S., Desai, K., Guo, M., Jung, J., Capestany, B., Krenzer, W. D., Stonecipher, D., & Farahany, N. (2024). U.S. public perceptions of the sensitivity of brain data. *Journal of Law and the Biosciences, 11*(1), lsad032. https://doi.org/10.1093/jlb/lsad032

[5] **Huang, S.**, Howard, C. M., Hovhannisyan, M., Ritchey, M., Cabeza, R., & Davis, S. W. (2024). Hippocampal functions modulate transfer-appropriate cortical representations supporting subsequent memory. *Journal of Neuroscience, 44*(1). https://doi.org/10.1523/JNEUROSCI.1135-23.2023

[4] Stanley, M. L., **Huang, S.**, Marsh, E. J., & Kay, A. C. (2023). The Role of Structure-Seeking in Moral Punishment. *Social Justice Research*. https://doi.org/10.1007/s11211-023-00416-8

[3] **Huang, S.***, Faul, L.*, Sevinc, G., Mwilambwe-Tshilobo, L., Setton, R., Lockrow, A., Ebner, N. C., Turner, G. R., Spreng, R. N., De Brigard, F. (2021). Age Differences in Intuitive Moral Decision-Making: Associations with Inter-Network Neural Connectivity. *Psychology and Aging, 36*(8), 902–916. https://doi.org/10.1037/pag0000633

[2] **Huang, S.**, Stanley, M. L., & De Brigard, F. (2020). The phenomenology of remembering our moral transgressions. *Memory & Cognition, 48*(2), 277–286. https://doi.org/10.3758/s13421-019-01009-0

[1] Fei, Y., Zhu, D., Sun, Y., Gong, C., **Huang, S.**, & Gong, Z. (2018). Repeated Failure in Reward Pursuit Alters Innate Drosophila Larval Behaviors. *Neuroscience Bulletin, 34*(6), 901–911. https://doi.org/10.1007/s12264-018-0248-0

Note: * indicates co-first authorship

POSTERS & PRESENTATIONS

Huang, S., Howard, C. M., Bogdan, P. C., Morales-Torres, R., Slayton, M., Cabeza, R., Davis, S. W. (2025, April). *Trial-Level Representational Similarity Analysis*. Poster session accepted for Cognitive Neuroscience Society 2025 Annual Meeting, Boston, MA.

Huang, S., Gillette, K., Howard, C. M., Deng, L., Davis, S. W., Cabeza, R. (2024, April). *Age-Related Differences in Memory Encoding: The Impact of Schematic Knowledge*. Poster session accepted for

Cognitive Neuroscience Society 2024 Annual Meeting, Toronto, Canada.

Huang, S., Howard, C. M., Hovhannisyan, M., Cabeza, R., Ritchey, M., Davis, S. W. (2023, March). *Hippocampal functions modulate transfer-appropriate cortical representations supporting subsequent memory*. Poster session and Data Blitz accepted for Cognitive Neuroscience Society 2023 Annual Meeting, San Francisco, CA.

Huang, S., Faul, L., Parikh, N., LaBar, K. S., De Brigard, F. (2022, April). *Multivariate neural patterns of counterfactual thinking-induced reconsolidation of autobiographical memory*. Poster session presented at Cognitive Neuroscience Society 2022 Annual Meeting, San Francisco, CA.

Huang, S., Faul, L., Sevinc, G., Mwilambwe-Tshilobo, L., Setton, R., Lockrow, A., Ebner, N. C., Turner, G. R., Spreng, R. N., De Brigard, F. (2021, March). *Inter-Network Neural Connectivity Predicts Differences in Intuitive Moral Decision-Making between Younger and Older Adults*. Poster session and Data Blitz presented at Cognitive Neuroscience Society 2021 Virtual Meeting.

Huang, S., Simmons, C., Krenzer, W., & Farahany, N. (2020, May). *Consumer-Based EEG Devices-Are They Mind-Wandering?* Poster session presented at Cognitive Neuroscience Society 2020 Virtual Meeting.

Huang, S., Stanley, M., & De Brigard, F. (2019, July). *The Phenomenology of Remembering Immoral Actions*. Poster session presented at Duke Undergraduate Research Showcase, Durham, NC.

Academic Service

Peer reviewer, *NeuroImage, NeuroImage: Clinical, Neurobiology of Aging*, *Neuropsychologia*	2024 - present
Workshop leader for *Duke Institute for Brain Sciences Methods Meetings*	2021- present
Mentor and lecturer for *cognitive neuroscience research internships*	2021 - present
Mentor of research independent studies, Nathaniel Braswell, Brandon Francis, Martin Ma	2021 - present
Teaching assistant, *Introduction to Cognitive Neuroscience, Contemporary Neuroscience Methods, Current Research in Neuroscience, Functional Magnetic Resonance Imaging*	2022 - 2023

Skills

MATLAB	Markdown
Python	LaTeX
R	Qualtrics Survey Platform
Stan statistical modeling	

References

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