

SHENYANG HUANG

Curriculum Vitae

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Center for Cognitive Neuroscience

Duke University, Durham, NC 27708

EDUCATION

Duke University, Durham, NC	2025
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Doctor of Philosophy in Psychology and Neuroscience, Cognition & the Brain

Cumulative GPA: 4.00/4.00

Duke University, Durham, NC	2023
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Master of Arts in Psychology and Neuroscience, Cognition & the Brain

Cumulative GPA: 4.00/4.00

Duke University, Durham, NC	2020
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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
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E. Bayard Halstead Fellowship in Science, History & Journalism	2024 - 2025
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Graduate Travel Award sponsored by the Charles Lafitte Foundation	2023 - 2024
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Conference Travel Award sponsored by the Duke Graduate School	2023
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Graduate Research Grant Award sponsored by the Charles Lafitte Foundation	2021
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Duke Summer Neuroscience Program Fellowship	2019
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Phi Beta Kappa Honor Society, top 1% of cohort	2019
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PUBLICATIONS

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- [12] **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. (*under review*). Cortico-hippocampal interactions underlie schema-supported memory encoding in older adults. <https://www.biorxiv.org/content/10.1101/2024.09.18.613755v1>
- [11] Slayton, M., Howard, C. M., **Huang, S.**, Hovhannisyan, M., Cabeza, R., & Davis, S. W. (*under review*). Semantic Dimensions Support the Cortical Representation of Object Memorability.
- [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., Hovhannisyann, 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

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

SKILLS

MATLAB	Markdown
Python	LaTeX
R	Qualtrics Survey Platform
Stan statistical modeling	

REFERENCES

Felipe De Brigard, Ph.D.

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 Duke University
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