

Hanna Hillman

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Education

- Yale University** — *New Haven, CT* *Sept 2020 – Present*
Ph.D. Candidate in Psychology | Neuroscience Track
Advisor: Professor Samuel D. McDougle
- University of Minnesota** — *Minneapolis, MN* *Sept 2010 – May 2016*
Bachelor of Arts, Psychology | Minor in Neuroscience | Minor in Sociology

Academic Experience

- Harvard University** — *Cambridge, MA* *June 2019 – Aug 2020*
Research Assistant | Lab Manager
Lab: Computational Cognitive Neuroscience Lab | Advisor: Professor Samuel Gershman
- Princeton University** — *Princeton, NJ* *Oct 2017 – June 2019*
Research Assistant
Lab: Hasson Lab | Advisor: Professor Uri Hasson
- Princeton University** — *Princeton, NJ* *Sept 2018 – Jan 2019*
Continuing Education Student
Graduate Course: Mathematical Tools of Neuroscience
- Earl E. Bakken Medical Device Center** — *Minneapolis, MN* *Dec 2016 – May 2017*
Post Bac. Intern
- University of Minnesota** — *Minneapolis, MN* *April 2014 – Jan 2015*
Undergraduate Research Assistant
Lab: Miller Vision Lab | Advisor: Professor Robert F. Miller
- University of Minnesota** — *Minneapolis, MN* *Jan 2013 – May 2014*
Undergraduate Research Assistant
Lab: DeYoung Personality Lab | Advisor: Colin DeYoung

Publications

- Hillman, H.**, Botthof, T., Forrence, A. D., & McDougle, S. D. (2024). Dissociable Codes in Motor Working Memory. *Psychological Science*
- Schurr, R., Reznik, D., **Hillman, H.**, Bhui, R., & Gershman, S. J. (2024). Dynamic computational phenotyping of human cognition. *Nature Human Behaviour*
- Nastase, S. A., Liu, Y. F., **Hillman, H.**, Zadbood, A., Hasenfratz, L., Keshavarzian, N., ... & Hasson, U. (2021). The “Narratives” fMRI dataset for evaluating models of naturalistic language comprehension. *Scientific data*

Meshulam, M., Hasenfratz, L., **Hillman, H.**, Liu, Y. F., Nguyen, M., Norman, K. A., & Hasson, U. (2021). Neural alignment predicts learning outcomes in students taking an introduction to computer science course. *Nature communications*

Nastase, S. A., Liu, Y. F., **Hillman, H.**, Norman, K. A., & Hasson, U. (2020). Leveraging shared connectivity to aggregate heterogeneous datasets into a common response space. *NeuroImage*

Selected Talks

Working Memory Symposium — *Online* (July 2024)

See: Adam, K. C., Klatt, L. I., Miller, J. A., Rösner, M., Fukuda, K., & Kiyonaga, A. (2025). Beyond routine maintenance: Current trends in working memory research. *Journal of Cognitive Neuroscience*

Manhattan Area Memory Meeting (MAMM) — *New Haven, CT* (June 2024)

Current Works in Cognitive Psychology, Yale University — *New Haven, CT* (October 2024)

Posters

Hillman, H., Botthof, T., Forrence, A. D., McClure, T., & McDougale, S. D. *Parallels between motor working memory and motor learning*. Presented at the Society for Neuroscience Conference. Chicago, IL. (October 2024)

Hillman, H., Botthof, T., Forrence, A. D., McClure, T., Goodcase, S., & McDougale, S. D. *Parallels between motor working memory and motor learning*. Presented at the Neural Computation of Movement Conference. Dubrovnik, Croatia. (April 2024)

Hillman, H., Botthof, T., Forrence, A. D., & McDougale, S. D. *Disentangling visuospatial and motor working memory*. Presented at the Society for Neuroscience Conference. Washington D.C. (November, 2023)

Hillman, H., Botthof, T., Forrence, A. D., & McDougale, S. D. *Interference in motor working memory*. Presented at the Neural Computation of Movement Conference. Victoria, Canada. (April, 2023)

Hillman, H., Botthof, T., Forrence, A. D., & McDougale, S. D. *Evidence for dual processes in motor working memory*. Presented at the Neural Computation of Movement Conference. Dublin, Ireland. (July, 2022)

Hillman, H., Botthof, T., Forrence, A. D., & McDougale, S. D. *Evidence for dual processes in motor working memory*. Presented at the Society for Neuroscience Conference. San Diego, CA. (November, 2022)

Extracurriculars & Outreach

Yale Swing, Blues, and Fusion — *New Haven, CT*
Vice President

Jan 2022 – Present

McDougal Graduate Student Center — *New Haven, CT*
Health & Wellness Fellow

Sept 2022 – June 2023

TEDxUMN — *Minneapolis, MN*
Chief Curator | Co-Director

Jan 2013 – Jan 2015