Sarah M. Lurie

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EDUCATION

Northwestern University, Chicago, IL — *09/2017 – present*
Ph.D., Interdepartmental Neuroscience Program
Advisor: Dr. Joel Voss, Laboratory for Human Neuroscience

Princeton University, Princeton, NJ — *09/2013 – 06/2017*
B.A., Neuroscience. Minor: Applications of Computing
Senior thesis: *Detecting Biased Memory Reactivation During Sleep with a Laterally Asymmetric Signal*
Thesis advisor: Dr. Ken Norman, Computational Memory Lab

FELLOWSHIPS AND AWARDS

NIH F31 NRSA Award (F31-MH125577) — *08/2021 – present*
Role: PI. *Sponsor*: Dr. Joel Voss. *Co-Sponsor*: Dr. John Disterhoft
Title: The Role of Hippocampal Theta Phase in Human Memory Encoding
Source: National Institute for Mental Health (NIMH)

Training Grant Recipient (T32-MH067564) — *08/2021 – 12/2020*
Neurobiology of Information Storage Training Program

PUBLICATIONS AND MANUSCRIPTS

1. **Lurie, S.M.,** Kragel, J.E., Schuele, S.U., Voss, J.L. (under review). Human hippocampal responses to network stimulation vary with theta phase. *bioRxiv*, doi: 10.1101/2022.02.28.482345.
2. **Lurie, S.M.** & Voss, J.L. (in prep). Theta-patterned stimulation targeting the hippocampal network yields phase-dependent effects on associative memory encoding.
3. Wang, B., Antony, J.W., **Lurie, S.,** Brooks, P.P., Paller, K.A., Norman, K.A. (2019). Targeted memory reactivation during sleep elicits neural signals related to learning content. *Journal of Neuroscience, 39*(34), 6728-6736.

PRESENTATIONS

Speaker, Northwestern University Cognitive Brain Mapping Group — *2022*
Phase-dependent receptivity to external stimulation in the human hippocampus

Speaker, Northwestern University Neurobiology of Information Storage Research in Progress Meeting — *2020*
The role of hippocampal theta phase in human memory encoding

Nanosymposium speaker, Society for Neuroscience annual meeting — *2019*
Oscillatory mechanisms for hippocampal memory encoding tested in humans

Speaker, Northwestern University Neurobiology of Information Storage seminar — *2019*
Oscillatory mechanisms for memory encoding tested in humans

CONFERENCE POSTER PRESENTATIONS

1. **Lurie, S.M.,** Kragel, J.E., Song, E., Schatza, M., Schuele, S.U., Disterhoft, J.F., Widge, A.S., Voss, J.L. (2021). Hippocampal potentials evoked by network-targeted stimulation vary by theta phase. Presented at the 2021 International Brain Stimulation Conference, Charleston, SC.
2. Kragel, J., **Lurie, S.,** Schatza, M., Blackwood, E., Chung, E., Zelano, C., Schuele, S.., Disterhoft, J., Widge, A., Voss, J. (2021). Theta synchronized closed-loop stimulation increases hippocampal excitability in humans. Presented at the 2021 International Brain Stimulation Conference, Charleston, SC.
3. **Lurie, S.M.,** Kragel, J.E., Song, E., Schatza, M., Schuele, S.U., Disterhoft, J.F., Widge, A.S., Voss, J.L. (2021). Hippocampal potentials evoked by network-targeted stimulation vary by theta phase. Presented at the annual meeting of the Society for Neuroscience.
4. Kragel, J.E., **Lurie, S.M.,** Schatza, M., Blackwood, E., Chung, E.A., Zelano, C., Schuele, S.U., Disterhoft, J.F., Widge, A.S., Voss, J.L (2021). Theta synchronized stimulation increases hippocampal excitability in humans. Presented at the annual meeting of the Society for Neuroscience.
5. Weiss, C., Song, E., Oh, M.M., **Lurie, S.M.,** Schatza, M.J., Galvez, A., Widge, A.S., Voss, J.L., Disterhoft, J.F. (2021). Rats learn multiple sets of visual discriminations during paired associate learning. Presented at the annual meeting of the Society for Neuroscience.
6. **Lurie, S.M.,** Voss, J.L. (2020). Oscillatory mechanisms for hippocampal memory encoding tested in humans. Presented at the annual meeting of the Cognitive Neuroscience Society.
7. **Lurie S,** Voss J.L. (2019) Oscillatory mechanisms for hippocampal memory encoding tested in humans. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
8. **Lurie, S.,** Zhou, G., Mathieu, R., Gottfried, J.A., Lane, G., & Zelano, C. (2018). Perception *and* neural representation of dichorhinic odor stimuli in humans. Presented at the Annual Meeting of the Association for Chemoreception Sciences, Bonita Springs, FL.

TEACHING AND MENTORING

Teaching Assistant, Northwestern University *Spring 2019*
NEU401: Fundamentals of Neuroscience, Motor & Cognitive.
Lead instructor: Dr. Thorsten Kahnt

Teaching Assistant, Northwestern University *Winter 2019*
NEU202: Cellular and Molecular Neuroscience.
Lead instructor: Dr. David McLean

Undergraduate Mentoring, Northwestern University *2020*
Kumudini Myla (Neuroscience)

Volunteer, Northwestern University Brain Awareness Outreach Brain Fair *2019*

SOCIETY MEMBERSHIP

Society for Neuroscience
Cognitive Neuroscience Society

PEER REVIEW

Ad hoc reviewer for: *Cerebral Cortex*, *Cortex*