Sarah M. Lurie

303 E. Chicago Ave., Room 11-455 Chicago, IL 60611 SarahLurie2017@u.northwestern.edu

EDUCATION

09/2017 -	present
-----------	---------

09/2013 - 06/2017

Ph.D., Interdepartmental Neuroscience Program Advisor: Dr. Joel Voss, Laboratory for Human Neuroscience

Princeton University, Princeton, NJ

Northwestern University, Chicago, IL

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	
<i>Title:</i> The Role of Hippocampal Theta Phase in Human Memory Encoding	
Source: National Institute for Mental Health (NIMH)	

Training Grant Recipient (T32-MH067564)

Neurobiology of Information Storage Training Program

08/2021 – 12/2020

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 Phase-dependent receptivity to external stimulation in the human hippocampus	2022
Speaker, Northwestern University Neurobiology of Information Storage Research in Progress Meeting The role of hippocampal theta phase in human memory encoding	2020
Nanosymposium speaker, Society for Neuroscience annual meeting Oscillatory mechanisms for hippocampal memory encoding tested in humans	2019
Speaker, Northwestern University Neurobiology of Information Storage seminar Oscillatory mechanisms for memory encoding tested in humans	2019

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 NEU401: Fundamentals of Neuroscience, Motor & Cognitive. <i>Lead instructor</i> : Dr. Thorsten Kahnt	Spring 2019
Teaching Assistant , Northwestern University NEU202: Cellular and Molecular Neuroscience. <i>Lead instructor</i> : Dr. David McLean	Winter 2019
Undergraduate Mentoring, Northwestern University Kumudini Myla (Neuroscience)	2020
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