

## Sarah M. Lurie

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### EDUCATION

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- 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

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- 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

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- Lurie, S.M.**, Kragel, J.E., Schuele, S.U., Voss, J.L. (under review). Theta phase affects receptivity of the human hippocampus to external input.
- Lurie, S.M.** & Voss, J.L. (in prep). Theta-patterned stimulation targeting the hippocampal network yields phase-dependent effects on associative memory encoding.
- 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

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- 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

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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 dichorhnic odor stimuli in humans. Presented at the Annual Meeting of the Association for Chemoreception Sciences, Bonita Springs, FL.

## TEACHING AND MENTORING

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

## SOCIETY MEMBERSHIP

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Society for Neuroscience  
Cognitive Neuroscience Society

## PEER REVIEW

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