

**Shantanu P. Jadhav, Ph.D.**

Associate Professor, Neuroscience Program and Department of Psychology  
 Brandeis University, Waltham, MA

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**CURRENT POSITION**

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2021-present **Brandeis University**  
 Associate Professor, Department of Psychology and Neuroscience Program  
 Volen National Center for Complex Systems  
 Sloan-Swartz Center for Theoretical Neuroscience

2014-2021 **Brandeis University**  
 Assistant Professor

**EDUCATION AND TRAINING**

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2009-2014 **University of California, San Francisco (UCSF)**  
 Postdoctoral Fellow, Neuroscience  
 Advisor: Dr. Loren Frank

2008-2009 **University of California, Berkeley**  
 Postdoctoral Fellow, Neuroscience  
 Advisor: Dr. Daniel Feldman

2003-2008 **University of California, San Diego (UCSD)**  
 Ph.D., Biology (Computational Neurobiology)  
 Advisor: Dr. Daniel Feldman

2002-2003 **National Center for Biological Science (NCBS), India**  
 Junior Research Fellow  
 Advisor: Dr. Sumantra Chattarji

1998-2002 **Indian Institute of Technology (IIT), Bombay, India**  
 Bachelor of Technology (B. Tech), Engineering Physics

**HONORS AND AWARDS**

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2022-2025 **Simons Foundation (SFARI) Autism Rat Model Consortium Award**

2019-2022 **Smith Foundation Odyssey Award**

2016-2020 **Whitehall Foundation Research Grant Award**

2016-2018 **NARSAD Young Investigator**, Brain & Behavior Foundation

2015-2017 **Alfred P. Sloan Research Fellowship in Neuroscience**, Alfred P. Sloan Foundation

2013 **Peter and Patricia Gruber International Research Award**, Society for Neuroscience (SFN)

2013 **Wellcome Trust/ DBT India Alliance Intermediate Fellowship** (declined)

2012 **COSYNE Presenter's Travel Award**, Gatsby Foundation, Cosyne 2012

2009 **Wheeler Center Grant**, UCSF

2006–2007 **La Jolla Interfaces In Science Pre-Doctoral Award** (Burroughs-Wellcome Fund), UCSD

2005	<b>Advanced Course in Computational Neuroscience</b> , IBRO/FENS, Arcachon, France
2003–2005	<b>NSF-IGERT Training Grant</b> , Computational Neurobiology Program, UCSD
2004	<b>Ray Thomas Edwards Graduate Student Travel Award</b> , UCSD
2003	Offered <b>Hopfield fellowship</b> , California Institute of Technology (declined)
2003	Offered <b>Presidential Fellowship</b> , Duke University (declined)
2002–2003	<b>Junior Research Fellow</b> , National Center for Biological Sciences, Bangalore, India
2001	<b>Undergraduate Research Program Fellowship</b> , Cold Spring Harbor Laboratory, NY
2000	<b>Visiting Students Research Fellowship</b> , Tata Institute of Fundamental Research, India

## GRANTS

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### ACTIVE GRANT SUPPORT:

2017-2027	PI	NIH Research Grant (R01 MH112661) “Role of Physiological Patterns in Hippocampal-Prefrontal Interactions”
2019-2024	PI	NIH Research Grant (R01 MH120228) “Multiple Mechanisms of Neural Coordination for Associative Memory Processes”
2022-2025	PI	SFARI Autism Rat Model Consortium “Neural Coordination Mechanisms Underlying Social Interactions in Rat Autism Models”

### PAST GRANT SUPPORT:

2019-2022	PI	Smith Foundation Odyssey Award “Neural Coordination Mechanisms for Memory Function and Dysfunction”
2017-2022	Co-I	NIH Research Grant (R01 MH110391) “Thalamic Mechanisms for Generating Abnormal Low-Frequency Oscillations Relevant to Schizophrenia” (PI: John Lisman and Donald Katz, Brandeis University)
2016-2020	PI	Whitehall Foundation Grant “Dissecting the Role of Network Activity Patterns in Cognition”
2016-2018	PI	NARSAD Young Investigator Grant “Neurophysiological Mechanisms of Hippocampal-Prefrontal Interactions in Memory”
2015-2017	PI	Alfred Sloan Foundation “Sloan Research Fellowship in Neuroscience”
2013-2017	PI	NIH K99/R00 Pathway to Independence Award (R00 MH100284) “Hippocampal-Prefrontal Interactions Underlying Learning and Memory”

## PUBLICATIONS (Peer-reviewed journal articles – reverse chronological order)

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1. Symanski CA, Bladon JH, Kullberg ET, Miller P, **Jadhav SP** (2022), “Rhythmic coordination and ensemble dynamics in the hippocampal-prefrontal network during odor-place associative memory and decision making”, *eLife*, 11: e79545, doi: 10.7554/eLife.79545

2. Tang W, **Jadhav SP** (2022), "Multiple-timescale representations of space: linking memory to navigation ", **Annual Review of Neuroscience**, 45:1-21, doi: 10.1146/annurev-neuro-111020-084824.
3. Sarmashghi M, **Jadhav SP**, Eden U (2022), "Integrating Statistical and Machine Learning Approaches for Neural Classification," **IEEE Access**, 10:119106-119118, doi: 10.1109/ACCESS.2022.3221436.
4. Sarmashghi M, **Jadhav SP**, Eden U (2021), "Efficient spline regression for neural spiking data", **PLoS One**, 16(10):e0258321, doi: 10.1371/journal.pone.0258321
5. Tang W, Shin JD, **Jadhav SP** (2021), "Multiple time-scales of decision making in the hippocampus and prefrontal cortex", **eLife**, 10:e66227, doi: 10.7554/eLife.66227.
6. Herzog LE, Katz DB, **Jadhav SP** (2020), "Refinement and reactivation of a taste-responsive hippocampal network", **Current Biology**, 30:1306-1311, doi: <https://doi.org/10.1016/j.cub.2020.01.063>.
7. Zielinski MC, Tang W, **Jadhav SP** (2020), "The role of replay and theta sequences in mediating hippocampal-prefrontal interactions for memory and cognition", **Hippocampus**, 30(1):60-72, doi: 10.1002/hipo.22821 (Peer-reviewed review article, Special Issue of *Hippocampus*).
8. Shin JD, Tang W, **Jadhav SP** (2019), "Dynamics of awake hippocampal-prefrontal replay for spatial learning and memory-guided decision making", **Neuron**, 104(6):1110-1125, doi: <https://doi.org/10.1016/j.neuron.2019.09.012>.
9. Zielinski MC, Shin JD, **Jadhav SP** (2019), "Coherent coding of spatial position mediated by theta oscillations in the hippocampus and prefrontal cortex", **Journal of Neuroscience**, 39(23):4550-4565; doi: 10.1523/JNEUROSCI.0106-19.2019.
10. Herzog LE, Pascual LM, Scott SJ, Mathieson ER, Katz DB, **Jadhav SP** (2019), "Interaction of taste and place coding in the hippocampus", **Journal of Neuroscience**, 39(16):3057-3069; doi: 10.1523/JNEUROSCI.2478-18.2019.
11. Tang W, **Jadhav SP** (2019), "Sharp-wave ripples as a signature of hippocampal-prefrontal reactivation for memory during sleep and waking states", **Neurobiology of Learning and Memory**, 160:11-20; doi: 10.1016/j.nlm.2018.01.002 (Peer-reviewed review article).
12. Maharjan DM, Dai Y, Glantz EH, **Jadhav SP** (2018), "Disruption of dorsal hippocampal-prefrontal interactions using chemogenetic inactivation impairs spatial learning", **Neurobiology of Learning and Memory**, 155(1):351-360
13. Tang W, Shin JD, Frank LM, **Jadhav SP** (2017), "Hippocampal-prefrontal reactivation during learning is stronger in awake compared with sleep states", **Journal of Neuroscience**, 37(49): 11789-11805.
14. Papale AE, Zielinski MC, Frank, LM, **Jadhav SP**, Redish AD (2016), "Interplay between hippocampal sharp-wave ripple events and vicarious trial and error behaviors in decision making", **Neuron**, 92:975-982.
15. Shin JD and **Jadhav SP** (2016), "Multiple modes of hippocampal-prefrontal interactions in memory-guided behavior", **Current Opinion in Neurobiology**, 40:161-169 (Peer-reviewed review article).
16. **Jadhav SP\***, Rothschild G\*, Roumis DR, Frank LM (2016), "Coordinated excitation and inhibition of prefrontal ensembles during awake hippocampal sharp-wave ripple events", **Neuron**, 90(1):113-127.

17. Felix SH, Shah KG, Tolosa VM, Sheth HJ, Tooker AC, Delima TL, **Jadhav SP**, Frank LM, Pannu SS (2013), "Insertion of Flexible Neural Probes Using Rigid Stiffeners Attached with Biodissolvable Adhesive", ***Journal of Visualized Experiments***, (79):e50609.
18. **Jadhav SP**, Kemere C, German PW, Frank LM (2012), "Awake hippocampal sharp-wave ripples support spatial memory", ***Science***, 336(6087): 1454-1458.
19. Morita T, Kang H, Wolfe J, **Jadhav SP**, Feldman DE (2011), "Psychometric curve and behavioral strategies for whisker-based texture discrimination in rats", ***PLoS One***, 6(6): e20437.
20. Carr MF\*, **Jadhav SP\***, Frank LM (2011), "Hippocampal replay in the awake state: a potential substrate for memory consolidation and retrieval", ***Nature Neuroscience***, 14(2):147-153. (\*Equal author contribution, Peer-reviewed review article).
21. **Jadhav SP**, Feldman DE (2010), "Texture coding in the whisker system", ***Current Opinion in Neurobiology***, 20(3):313-318. (Peer-reviewed review article).
22. Li L\*, Bender KJ\*, Drew PJ, **Jadhav SP**, Sylwestrak E, Feldman DE (2009), "Endocannabinoid signaling is required for development and critical period plasticity of the whisker map in somatosensory cortex", ***Neuron***, 64(4):537-549.
23. **Jadhav SP**, Wolfe J, Feldman DE (2009), "Sparse temporal coding of elementary tactile features during active whisker sensation", ***Nature Neuroscience***, 12(6):792-800.
24. Gabernet L, **Jadhav SP**, Feldman DE, Carandini M, Scanziani M (2005), "Somatosensory integration controlled by dynamic thalamocortical feed-forward inhibition", ***Neuron***, 48(2):315-327.
25. Vyas A\*, **Jadhav S\***, Chattarji S (2006), "Prolonged chronic stress induces amygdaloid neuronal hypertrophy and enhanced anxiety-like behavior", ***Neuroscience***, 143(2):387-393. (\*Equal author contribution).
26. Mitra R, **Jadhav S**, McEwen BS, Vyas A, Chattarji S (2005), "Stress duration modulates the spatiotemporal patterns of spine formation in the basolateral amygdala", ***PNAS***, 102(26):9371-9376.

## PREPRINTS

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1. Zielinski MC, Shin JD, **Jadhav SP** (2021), "Hippocampal theta sequences in REM sleep during spatial learning", *bioRxiv*, doi: <https://doi.org/10.1101/2021.04.15.439854>.
2. Olson JM, Leppla CA, Bladon JH, **Jadhav SP** (2021), "Adaptable and automated rodent behavior maze system", *bioRxiv*, <https://doi.org/10.1101/2021.06.05.447225>.

## BOOK CHAPTERS AND PREVIEWS

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1. Tang W, **Jadhav SP** (2018), "Conducting the Neural Symphony of Memory Replay", ***Neuron***, 100: 1016-1019 (Preview).
2. **Jadhav SP**, Frank LM (2014), "Memory replay in the hippocampus", ***Space, Time and Memory in the Hippocampal Formation*** (Ed: D. Derdikman, J. Knierim). Springer Publishers.
3. **Jadhav SP**, Frank LM (2009), "Reactivating Memories for Consolidation", ***Neuron***, 62: 745-746 (Preview).

**SERVICE AS REVIEWER**

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**Manuscript Review:**

2012 – Manuscript Reviewer for Research Journals: *Science*, *eLife*, *Neuron*, *Nature Neuroscience*, *Journal of Neuroscience*, *Nature Communications*, *Cell Reports*, *Hippocampus*, *Current Opinion in Neurobiology*, *Current Biology*, *Scientific Reports*, *Neurobiology of Learning and Memory*, *Behavioral Neuroscience*, *Journal of Neurophysiology*, *Trends in Cognitive Science*, *Progress in Neurobiology*, *Proceedings of the National Academy of Sciences (PNAS)*, *Biological Cybernetics*, *Frontiers (Review Editor)*

**Grant Review:**

2022 NIH: Special Emphasis Panel, ad hoc member  
 2021 Diversity K01 and MOSAIC K99 Study Section, ad hoc member  
 2021 NIH: Neurobiology of Learning, Memory and Decision Making Study Section, ad hoc member  
 2021 External Reviewer for German Research Foundation (DFG)  
 2020, 2018 NIH: Neurobiology of Learning and Memory Study Section, ad hoc member  
 2019, 2018 NIH: Brain Initiative F32 Postdoctoral Training Grants, ad hoc member  
 2020, 2017 The Wellcome Trust, UK  
 2020 European Research Council (ERC)  
 2019 Medical Research Council (MRC), UK  
 2019 University of Nottingham, UK  
 2018 Neurological Foundation of New Zealand  
 2016 Agence Nationale de la Recherche (ANR), France  
 2015 Biotechnology and Biological Sciences Research Council (BBSRC), UK

**TEACHING EXPERIENCE**

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2017, 2019, 2021 Memory and the Brain, Brandeis University  
 2018, 2021 Advanced Data Analysis, Brandeis University  
 2016, 2020 Systems Neuroscience, Brandeis University  
 2015 Neuroscience Proseminar, Brandeis University

**SERVICE ON COMMITTEES**

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2015, 2016, 2018 Brandeis Neuroscience Graduate Admissions Committee  
 2014, 2021 Brandeis Psychology Graduate Admissions Committee  
 2019 Brandeis Psychology Department Faculty Search Committee  
 2021 Brandeis IACUC Committee Faculty Member  
 2021- Brandeis Psychology Department DEI (Diversity, Equity and Inclusion) Committee

**STUDENT ADVISING**

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2014 – Advisor for 10 Ph.D. students, 6 postdoctoral researchers, 7 Master's students, and 18 undergraduate research assistants at Brandeis University.

### **Graduate Students (Ph.D.):**

2015-2020 Mark C. Zielinski  
 2015-2020 Justin D. Shin  
 2015-2020 Linnea Herzog (joint advisor with Donald Katz)  
 2015-2020 Claire C. Symanski  
 2016-2021 Roshan Nanu (joint advisor with John Lisman and Donald Katz)  
 2016-2022 Wenbo Tang  
 2017- Ryan Young  
 2019- Mingxin Ding  
 2020- Jordan Breffle (joint advisor with Paul Miller)  
 2022- Edward Rivera Melendez

### **Masters' Students:**

2014-2016 Dennis Maharjan  
 2014-2015 Susrita Sarkar  
 2017-2018 Emi Kullberg  
 2018-2019 Samantha Malmberg  
 2018 Mohammed Adel  
 2019-2020 Xinghaoyun Wan  
 2021-2022 Christopher Clickner

### **Postdoctoral Fellows and Visiting Researchers:**

2016-2020 Elif Engin (Visiting Researcher from McLean Hospital)  
 2016-2018 Suman Guha  
 2019- Jacob Olson  
 2019- John Bladon  
 2019-2020 Chris Leppla  
 2020- Blake Porter  
 2020-2022 Aanchal Bhatia

### **Undergraduate Researchers:**

2015-2018 Elon Mathieson  
 2015-2017 Ethan Glantz  
 2015-2019 Yuki Dai  
 2015-2018 Sang Min (Kevin) Lee  
 2015-2017 Kieran Cooper  
 2016-2018 Catherine Lin  
 2017-2021 Ziyi Guo  
 2017-2019 Zoe Tai  
 2017-2018 Eric Pilchowski  
 2018-2019 Cecelia Templeton  
 2018-2021 Luana Lima  
 2019-2020 Ivy Gao  
 2019-2020 Rebecca Gold  
 2019-2021 Novia Wu  
 2019-2022 Emma Johnston  
 2021- Porter Tomsick

2022- Catherine Shi  
 2022- Ellie Kunitz-Levy

## THESIS COMMITTEES

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### External Ph.D. Thesis Committee Member:

2017 Rohan Gala Northeastern University  
 2019 John Bladon Boston University  
 2020 David Tingley New York University  
 2021 Emma Krause Harvard University

### Ph.D. Thesis Committee Member (Brandeis University)

2015-2018 Daniel Acker  
 2015-2019 Veronica Flores  
 2015-2019 Narendra Mukherjee  
 2016-2018 Meredith Blankenship  
 2017-2021 Andrea Stacy  
 2017-2020 Lila Fakharzadeh  
 2018-2022 Benjamin Ballintyn  
 2019- Abuzar Mahmood  
 2019- Juliet Bottorff  
 2020- Kathleen Maigler  
 2020- Daniel Leman

### Ph.D. Qualifying Exam Committee (Brandeis University)

2016 Alejandro Torrado Pacheco  
 2016 Chelsea Groves Kuhnle  
 2018 Katie Kimbrell  
 2018 Bradly Stone  
 2020 Lisandro Martin

## CONFERENCE ABSTRACTS

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1. Porter BS, Shi C, Jadhav SP (2022), "Hippocampal-prefrontal circuit mechanisms that support inferential reasoning", *Society for Neuroscience*, 571.11.
2. Tang W, Shin JD and **Jadhav SP** (2022), "Distinct geometries of hippocampal and prefrontal representations for memory generalization", *Society for Neuroscience*, 571.12.
3. Young R, **Jadhav SP** (2022), "Non-local coding in hippocampal-prefrontal circuits during cue-guided and memory-guided navigation", *Society for Neuroscience*, 571.13.
4. Olson JM, Rees CW, Jadhav SP (2022), "Subiculum and CA1 activity in rats during learning of a novel complex navigational task", *Society for Neuroscience*, 571.14.
5. Breffle J, Germaine H, **Jadhav SP**, Miller P (2022), "Pre-existing randomly clustered recurrent circuit structure can lead to place field activity and correlated preplay", *Society for Neuroscience*, 571.15.
6. Ding M, Tomsick PL, **Jadhav SP** (2022), "The coordination of hippocampus, prefrontal cortex and ventral tegmental area for spatial learning and flexible behavior", *Society for Neuroscience*, 571.16.

7. Tang W, Shin JD and **Jadhav SP** (2021), "Neural substrates linking memory to decision making", *Joint Symposium in Computational Neuroscience*.
8. Guo Z, Young RA, **Jadhav SP** (2021), "Communication subspaces for local-field potential defined network states", *Joint Symposium in Computational Neuroscience*.
9. Guo Z, Young RA, **Jadhav SP** (2020), "Communication subspaces for local-field potential defined network states", *SFN Global Connectome*.
10. Tang W, Shin JD and **Jadhav SP** (2019), "Dynamics of awake hippocampal-prefrontal replay for spatial learning and memory-guided decision making", *Society for Neuroscience*, 335.26.
11. Shin JD, Tang W and **Jadhav SP** (2019), "Ontogeny of coordinated representations in the hippocampal-prefrontal network during spatial learning", *Society for Neuroscience*, 335.27.
12. Symanski CA, Kullberg E and **Jadhav SP** (2019), "Odor-place associative memory in the hippocampal-prefrontal network", *Society for Neuroscience*, 335.25.
13. Tang W, Shin JD and **Jadhav SP** (2019), "Hippocampal-prefrontal replay mediates retrospection and prospection for spatial choice learning", *Conference on Learning and Memory, UT Austin*.
14. Shin JD, Tang W and **Jadhav SP** (2019), "Ontogeny of representations in hippocampal-prefrontal networks for spatial learning", *Conference on Learning and Memory, UT Austin* (Best poster award).
15. Shin JD, Tang W and **Jadhav SP** (2018), "Development of hippocampal-prefrontal representations in parallel with behavioral learning", *Society for Neuroscience*, 424.07.
16. Tang W, Shin JD and **Jadhav SP** (2018), "Learning-associated changes in awake replay content in the hippocampal-prefrontal network", *Society for Neuroscience*, 424.06.
17. Young RY, Shin JD and **Jadhav SP** (2018), "Dual phase-locking in the hippocampal-prefrontal network", *Society for Neuroscience*, 424.05.
18. Zielinski MC, Shin JD and **Jadhav SP** (2018), "Hippocampal theta supports distinct prefrontal representations on a behavioral timescale", *Society for Neuroscience*, 424.03.
19. Symanski CA, Kullberg E and **Jadhav SP** (2018), "Odor-place associative memory in the hippocampal-prefrontal network", *Society for Neuroscience*, 424.02.
20. Herzog LE, Pascual L, Katz DB and **Jadhav SP** (2018), "Interactions of taste and place coding in the hippocampus", *Society for Neuroscience*, 424.01.
21. Nanu R, Lin C, Katz DB, **Jadhav SP**, Pi H and Lisman J (2018), "Investigating thalamic contributions to abnormal hippocampal oscillatory activity in a mouse model of schizophrenia", *Society for Neuroscience*, 424.04.
22. Tang W, Shin JD, Frank LM and **Jadhav SP** (2017), "Hippocampal-prefrontal reactivation during awake and sleep sharp-wave ripple events", *Society for Neuroscience*, 166.06.
23. Tang W, Shin JD, Frank LM and **Jadhav SP** (2017), "Coordination in the hippocampal-prefrontal network during awake and sleep sharp wave ripple events", *Computational and Systems Neuroscience Meeting*.
24. Maharjan DM, Glantz EH, Dai Y, **Jadhav SP** (2016), "Contralateral inactivation of the dorsal hippocampus and prefrontal cortex using DREADDs impairs spatial learning", *Society for Neuroscience*, 554.13.
25. Zielinski MC, Papale AE, Redish AD, Frank LM, **Jadhav SP** (2015), "Disrupting awake sharp-wave ripples increases vicarious trial and error behavior", *Society for Neuroscience*, 86.07.
26. Papale AE, Zielinski MC, Frank LM, **Jadhav SP**, Redish AD (2015), "Sequential activity during theta and sharp wave ripples supports flexible decision making", *Society for Neuroscience*, 86.04.
27. **Jadhav SP**, Rothschild G, Roumis DK, Grossrubatscher I, Frank LM (2014), "Coordinated awake reactivation of behaviorally related hippocampal-prefrontal ensembles", *Society for Neuroscience*, 93.06.



28. **Jadhav SP**, Frank LM (2013), "Multiple modes of hippocampal-prefrontal interactions during learning", *Society for Neuroscience*. 95.10.
29. **Jadhav SP**, Kemere C, German PW, Frank LM (2012), "Awake hippocampal sharp-wave ripples support spatial working memory", *Computational and Systems Neuroscience Meeting*, T17 (Invited talk).
30. **Jadhav SP**, Kemere C, German PW, Frank LM (2011), "Selective disruption of awake sharp-wave ripples impairs learning in a spatial working memory task", *Society for Neuroscience*. 731.22.
31. **Jadhav SP**, Wolfe J, Feldman DE (2008), "Sparse ensemble coding of slip-stick whisker motion events in somatosensory cortex during voluntary whisking on surfaces", *Society for Neuroscience*. 775.23.
32. **Jadhav SP**, Gabernet L, Feldman DE, Carandini M, Scanziani M (2004), "Controlling thalamo-cortical integration with dynamic feed-forward inhibitory circuits", *Society for Neuroscience*. 509.13.

## INVITED TALKS

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Aug 2022	Indian Institute of Science Education and Research (IISER), Pune, India
Apr 2022	Boston Children's Hospital, Harvard University, Boston, MA
Jan 2022	Kavli Institute for Systems Neuroscience, Norway
Sep 2020	Behavioral Neuroscience Seminar, University of Delaware, DE
Jan 2020	Winter Conference on Neurobiology of Learning and Memory, Utah
Dec 2019	Wellesley College, Wellesley, MA
Nov 2019	Bridging the Two Cultures, Brandeis University
Jun 2019	Spring Hippocampal Research Conference, Taormina, Sicily
May 2019	Yale University School of Medicine, New Haven, CT
Jan 2019	Winter Conference on Neurobiology of Learning and Memory, Utah
Apr 2018	Learning and Memory Conference, UC Irvine
Feb 2018	Indian Institute of Science Education and Research (IISER), Pune, India
Jan 2018	Rice University and Baylor College of Medicine, Houston, TX
Sep 2017	Max Planck Institute for Brain Research, Frankfurt, Germany
Sep 2017	Heidelberg Neuronal Ensemble Conference, Heidelberg, Germany
Jun 2017	Spring Hippocampal Research Conference, Taormina, Sicily
Feb 2017	Winter Conference on Brain Research (WCBR), Montana
Jan 2017	University of Chicago, Neuro Club
Nov 2016	Interdisciplinary Neuroscience Program Colloquium, University of Rhode Island
May 2016	Psychological and Brain Sciences, Dartmouth University
Dec 2014	Center for Interdisciplinary Research in Complex Systems, Northeastern University
Mar 2014	Department of Anatomy & Neurobiology, UC Irvine
Feb 2014	Boston Children's Hospital, Harvard University
Feb 2014	Department of Psychiatry, UT SouthWestern
Feb 2014	Department of Anatomy & Neurobiology, Washington University
Feb 2014	Department of Psychology, University of Chicago
Jan 2014	Department of Biology, Boston University
Jan 2014	Psychology & Neuroscience, Brandeis University
Dec 2013	Department of Psychology, Rutgers University
Nov 2013	Department of Psychology, University of Michigan
Nov 2013	Department of Psychology, University of Washington, Seattle
Apr 2013	National Center for Biological Sciences (NCBS), India
Mar 2013	Institute of Neuroscience, University of Oregon
Feb 2013	Janelia Farms Research Institute, HHMI
Jan 2013	Princeton Neuroscience Institute, Princeton University
Jan 2013	Department of Neurobiology, Northwestern University
Dec 2012	Brain and Cognitive Science, Rochester University

Nov 2012 National Institute of Health (NIH)

Feb 2012 Computational and Systems Neuroscience Meeting (COSYNE) 2012