Shantanu P. Jadhav, Ph.D.

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

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Lab Website: https://jadhavlab.com

CURRENT POSITION

2025-present **Brandeis University**
Professor, Department of Psychology and Neuroscience Program
Volen National Center for Complex Systems
Sloan-Swartz Center for Theoretical Neuroscience

2021-2025 **Brandeis University**
Associate Professor

2014-2021 **Brandeis University**
Assistant Professor

EDUCATION AND TRAINING

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

2024-2026 **Simons Foundation (SFARI) Cross-Species ASD** Award
2022-2026 **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	**Advanced Course in Computational Neuroscience**, IBRO/FENS, Arcachon, France
2003–2005	**NSF-IGERT Training Grant**, Computational Neurobiology Program, UCSD
2004	**Ray Thomas Edwards Graduate Student Travel Award**, UCSD
2003	Offered **Hopfield fellowship**, California Institute of Technology (declined)
2003	Offered **Presidential Fellowship**, Duke University (declined)
2002–2003	**Junior Research Fellow**, National Center for Biological Sciences, Bangalore, India
2001	**Undergraduate Research Program** Fellowship, Cold Spring Harbor Laboratory, NY
2000	**Visiting Students Research Fellowship**, Tata Institute of Fundamental Research, India

GRANTS

ACTIVE GRANT SUPPORT:

2017-2027	PI	NIH Research Grant (R01 MH112661) “Role of Physiological Patterns in Hippocampal-Prefrontal Interactions”
2022-2026	PI	SFARI Autism Rat Model Consortium “Neural Coordination Mechanisms Underlying Social Interactions in Rat Autism Models”
2023-2028	PI	NIH Research Grant, PIs: Jadhav/ Katz, (R01 DC020640) “Hippocampal - Gustatory Cortical Interactions Underlying Formation of Taste-Space Cognitive Maps”
2024-2026	PI	SFARI Cross-Species studies of ASD award, PIs: Manoach/ Jadhav “Identifying Translational Sleep Biomarkers in Autism”

PAST GRANT SUPPORT:

2019-2025	PI	NIH Research Grant (R01 MH120228) “Multiple Mechanisms of Neural Coordination for Associative Memory Processes”
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)

Google Scholar:
https://scholar.google.com/citations?user=eExCnfYAAAAJ&hl=en

In Process:

a) Shin JD, Satchell M, Miller P, **Jadhav SP** (2025), "REM sleep prefrontal ripple chains mediate distinct cortical-hippocampal reactivation patterns compared to NREM ripples", *bioRxiv,* doi: https://doi.org/10.1101/2025.09.15.676366; *In Review*.

1. Ding M, Tomsick PA, Young RA, **Jadhav SP** (2025), "Ventral tegmental area dopamine neural activity switches simultaneously with rule representations in the prefrontal cortex and hippocampus", ***Journal of Neuroscience***, 45(37):e1670242025. Cover Article, Special Issue: Computational Properties of Prefrontal Cortex. doi: https://doi.org/10.1523/JNEUROSCI.1670-24.2025.

2. Young RA, Shin JD, Guo Z, **Jadhav SP** (2025), "Hippocampal-prefrontal communication subspaces align with behavioral and network patterns in a spatial memory task", ***eNeuro***, ENEURO.0336-24.2025, doi: https://doi.org/10.1523/ENEURO.0336-24.2025.

3. Porter BS, Olson JM, Leppla CA, Duvelle E, Bladon JH, van der Meer M, **Jadhav SP** (2025), "Adapt-A-Maze: An Open Source Adaptable and Automated Rodent Behavior Maze System", ***eNeuro***, ENEURO.0138-25.2025, doi: https://doi.org/10.1523/ENEURO.0138-25.2025.

4. Shin JD, **Jadhav SP** (2024), "Prefrontal cortical ripples mediate top-down suppression of hippocampal reactivation during sleep memory consolidation", ***Current Biology***, 34:2801-2811.e9*,* doi: https://doi.org/10.1016/ j.cub.2024.05.018.

5. Breffle J, Germain H, Shin JD, **Jadhav SP***, Miller P* (2024), "Intrinsic dynamics of randomly clustered networks generate place fields and preplay of novel environments", ***eLife***, 2024 Oct 18:13:RP93981, doi: https://doi.org/10.7554/eLife.93981.1 (*Co-senior Authors).

6. Shin JD, Tang W, **Jadhav SP** (2023), "Protocol for geometric transformation of cognitive maps for generalization across hippocampal-prefrontal circuits", ***STAR Protocols***, 4:102513, doi: 10.1016/j.xpro.2023.102513.

7. Tang W*, Shin JD*, **Jadhav SP** (2023), "Geometric transformation of cognitive maps for generalization across hippocampal-prefrontal circuits", ***Cell Reports***, 42:112246, doi: 10.1016/j.celrep.2023.112246.

8. 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.

9. 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.

10. 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.

11. 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

12. 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.

13. 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.

14. 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*).

15. 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.

16. 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.

17. 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.

18. 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).

19. 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

20. 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; doi: 10.1523/JNEUROSCI.2291-17.2017

21. 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.

22. 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).

23. **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, doi: 10.1016/j.neuron.2016.02.010.

24. 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.

25. **Jadhav SP**, Kemere C, German PW, Frank LM (2012), "Awake hippocampal sharp-wave ripples support spatial memory", ***Science***, 336(6087): 1454-1458, doi: 10.1126/science.1217230.

26. 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.

27. 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).

28. **Jadhav SP**, Feldman DE (2010), "Texture coding in the whisker system", ***Current Opinion in Neurobiology***, 20(3):313-318. (Peer-reviewed review article).

29. 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.

30. **Jadhav SP**, Wolfe J, Feldman DE (2009), "Sparse temporal coding of elementary tactile features during active whisker sensation", ***Nature Neuroscience***,12(6):792-800.

31. 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.

32. 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).

33. 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

1. Shukla A, Rivera EL, Bladon JH, Jadhav SP (2025), "Cooperative behavior guided by peer coordination is impaired in a Fragile-X rat model of autism", *bioRxiv*, doi: https://doi.org/10.1101/2025.09.24.678380.
2. Porter BS, Shi C, Kozlova E, Jadhav SP (2025),"A novel rat spatial transitive inference paradigm for investigating memory schema and deliberation", *bioRxiv*, doi: https://doi.org/10.1101/2025.08.28.672785.
3. 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.

BOOK CHAPTERS AND PREVIEWS

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

Manuscript Review:

2012 – Manuscript Reviewer for Research Journals: *Science, eLife, Neuron, Nature Neuroscience, Journal of Neuroscience, Nature Communications*, *Cell Reports*, *Cell Reports Medicine, 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, iScience, Communications Biology, Science Advances, PLoS Biology, Learning and Memory, Frontiers (Review Editor)

Grant Review:

2025	Simons Foundation Fellows-To-Faculty Award Review
2024	US Army DEVCOM Soldier Center Research Review, Natick, MA
2021 - 25	NIH: Neurobiology of Learning, Memory and Decision Making Study Section, ad hoc member
2022 - 25	NIH: Special Emphasis Panel, ad hoc member
2018 - 25	NIH: Brain Initiative F32 and K99 Postdoctoral Training Grants, ad hoc member
2023	NIH: NIMH T32 NRSA Training Grants, ad hoc member
2023	Wellcome Trust, DBT, India-UK Alliance
2023	Boehringer Ingelheim Foundation, Germany
2021	Diversity K01 and MOSAIC K99 Study Section, ad hoc member
2021	External Reviewer for German Research Foundation (DFG)
2018, 2020	NIH: Neurobiology of Learning and Memory Study Section, ad hoc member
2017, 2020	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

2017 - 2024	Memory and the Brain, Brandeis University
2018 - 2025	Advanced Data Analysis, Brandeis University
2016 - 2025	Systems Neuroscience, Brandeis University
2015	Neuroscience Proseminar, Brandeis University

SERVICE ON COMMITTEES

2025-28	Brandeis University Faculty Senate Representative
2024-26	Brandeis University Committee on Faculty Rights and Responsibilities (CFRR)
2025-26	Chair, Brandies Psychology Graduate Admissions Committee
2024-25	Chair, Brandies Neuroscience Graduate Admissions Committee
2024-25	Brandeis Psychology Undergrad Curriculum Committee
2023-25	Brandeis University Athletics Faculty Mentor
2023-25	Brandeis University New Students Book Forum Committee
2021	Brandeis University IACUC Committee Faculty Member
2021-2023	Brandeis Psychology Department DEI (Diversity, Equity and Inclusion) Committee
2015, 2016, 2018	Brandies Neuroscience Graduate Admissions Committee
2014, 2021, 2025	Brandeis Psychology Graduate Admissions Committee

2019 Brandeis Psychology Department Faculty Search Committee

STUDENT ADVISING

2014 – Advisor for 13 Ph.D. students, 8 postdoctoral researchers, 8 Masters' students, and 23 undergraduate research assistants at Brandeis University.

Graduate Students (Ph.D.):

2015-2020	Mark C. Zielinski	(currently Senior Data Scientist at Scipher Medicine)
2015-2020	Linnea Herzog	(joint advisor with Katz; postdoc in Broad Institute, Scientist at Akous Inc.)
2015-2020	Claire C. Symanski	(currently Senior Medical Writer at EBSCO Information Services)
2015-2021	Justin D. Shin	(currently Postdoc in my lab at Brandeis University)
2016-2021	Roshan Nanu	(joint advisor with Lisman, Katz; currently Lead AI Engineer at Prompt Therapy Solutions Inc)
2016-2022	Wenbo Tang	(currently Postdoc at Cornell University)
2017-2023	Ryan Young	(currently Sr. Machine Learning Engineer at Mayflower Communications)
2020-2023	Jordan Breffle	(joint advisor with Paul Miller; currently Data Scientist at Scipher Medicine)
2019-2024	Mingxin Ding	(currently Postdoc in my lab at Brandeis University)
2022-	Edward Melendez	
2023-	Michael Satchell	(joint advisor with Paul Miller)
2023-	Connor Johnson	(joint advisor with Donald Katz)
2024-	Rafael Gabriel	(joint advisor with Donald Katz)

Masters' Students:

2014-2016	Dennis Maharjan	(next position: PhD student in CSHL)
2014-2015	Susrita Sarkar	(next position: PhD student in Boston University)
2017-2018	Emi Kullberg	(currently Intraoperative Neuromonitoring Specialist at MGH)
2018-2019	Samantha Malmberg	(currently PhD student in Boston University)
2018-2019	Mohammed Adel	(currently Postdoc in Brandeis University)
2019-2020	Xinghaoyun Wan	(currently PhD student in McGill University)
2021-2022	Christopher Clickner	(currently Research Technician at MGH)
2023-2024	Ananya Maharjan	
2024-	Diego Morandi Zerpa	

Postdoctoral Fellows and Visiting Researchers:

2016-2020	Elif Engin	(Visiting Researcher from McLean Hospital)
2016-2018	Suman Guha	(currently Associate at McKinsey & Company)
2019-2020	Chris Leppla	(currently Engineer/ Developer in SpikeGadgets, Inc.)
2019-2022	John Bladon	(currently Research Scientist in Sanofi, Inc.)
2020-2022	Aanchal Bhatia	(currently Postdoc in Greinberger Lab at Brandeis University)
2024-2024	Sarvesh Uplap	(currently Sr. Manager, Strategy - Business Dev, Shubham Tanks, India)
2019-2025	Jacob Olson	(K99 fellow)
2020 -	Blake Porter	
2021 -	Justin Shin	
2023 -	Ashutosh Shukla	
2025-	Mingxin Ding	

Undergraduate Researchers:

2015-2018	Elon Mathieson	(next position: Research Coordinator at Beth Israel Medical Center)

2015-2017	Ethan Glantz	(currently PhD student at Harvard University)
2015-2019	Yuki Dai	(next position: PhD student at Harvard University)
2015-2018	Sang Min Lee	(next position: Medical student at Ohio State University)
2015-2017	Kieran Cooper	
2016-2018	Catherine Lin	
2017-2021	Ziyi Guo	(next position: PhD student at Johns Hopkins University)
2017-2019	Zoe Tai	(next position: DVM student at Colorado State University)
2017-2018	Eric Pilchowski	(next position: Research Associate at the Skyhawk Therapeutics)
2018-2019	Cecelia Templeton	(next position: Research Associate at the University of Chicago)
2018-2021	Luana Lima	
2019-2020	Ivy Gao	(next position: PhD student at Tufts University)
2019-2020	Beck Gold	(next position: Medical student at George Washington University)
2019-2021	Novia Wu	(next position: MS student at Cornell University)
2019-2022	Emma Johnston	(next position: Research Coordinator at MGH)
2021-2024	Porter Tomsick	(next position: Research Associate at Virginia Polytechnic Institute)
2022-2023	Ellie Kunitz-Levy	
2023	Ruoxi Sun (summer)	(next position: PhD student in Johns Hopkins University)
2023-2024	Evgeniia Kozlova	
2022-2025	Catherine Shi	
2023-2025	Max Kappler	(next position: Postbac fellow in NIH)
2024-2025	Leo Lin	
2024-	Mei Rowland	
2024-	Abigail Froyshteter	
2024-	Leah Trashanski	

THESIS COMMITTEES

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
2023	Kelton Wilmerding	Boston 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
2018-2022	Katie Kimbrell
2018-2022	Bradly Stone
2019-2022	Abuzar Mahmood
2019-2023	Juliet Bottorff
2020-2024	Daniel Svedberg
2020-	Kathleen Maigler
2022-2025	Hannah Germaine
2023-	Mike Vivian

2024- Brian (Yi) Zhang
2024- Vincent Chen
2024- Xiaolin Qiao
2025- Fox Gourianova

Ph.D. Qualifying Exam Committee (Brandeis University)

2016 Alejandro Torrado Pacheco
2016 Chelsea Groves Kuhnle
2020 Lisandro Martin
2021 Daniel Leman

CONFERENCE ABSTRACTS

1. Shukla A, Melendez ER, **Jadhav SP** (2024), "Social cooperative learning deficits in a rat model of Fragile X syndrome", *Society for Neuroscience* 2024 *(Oct 2024)*.
2. Melendez ER, Shukla A, Shin JD, **Jadhav SP** (2024), "Hippocampal mechanisms underlying representation of peer locations and trajectories in a social cooperative learning task", *Society for Neuroscience* 2024 *(Oct 2024)*.
3. Shin JD, **Jadhav SP** (2024), "Prefrontal cortical ripples mediate top-down suppression of hippocampal reactivation during sleep memory consolidation", *Computational Properties of Prefrontal Cortex (May 2024).*
4. Porter BS, Shi C, Kozlova E, **Jadhav SP** (2023), "Hippocampal-prefrontal neural correlates of schema formation during transitive inference learning", *Society for Neuroscience,* 436.04.
5. Olson JM, Rees CW, **Jadhav SP** (2023), "Subiculum and CA1 coordination in rats during learning of a novel complex navigational task", *Society for Neuroscience,* 436.03.
6. Ding M, **Jadhav SP** (2023), "Hippocampus-prefrontal dynamics during a rule switching task", *Society for Neuroscience,* 436.02.
7. Porter BS, Shi C, **Jadhav SP** (2022), "Hippocampal-prefrontal circuit mechanisms that support inferential reasoning", *Society for Neuroscience,* 571.11.
8. Tang W, Shin JD and **Jadhav SP** (2022), "Distinct geometries of hippocampal and prefrontal representations for memory generalization", *Society for Neuroscience,* 571.12.
9. Young R, **Jadhav SP** (2022), "Non-local coding in hippocampal-prefrontal circuits during cue-guided and memory-guided navigation ", *Society for Neuroscience,* 571.13.
10. 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.
11. 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.
12. 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.
13. Tang W, Shin JD and **Jadhav SP** (2021), "Neural substrates linking memory to decision making", *Joint Symposium in Computational Neuroscience.*
14. Guo Z, Young RA, **Jadhav SP** (2021), "Communication subspaces for local-field potential defined network states", *Joint Symposium in Computational Neuroscience.*

15. Guo Z, Young RA, **Jadhav SP** (2020), "Communication subspaces for local-field potential defined network states", *SFN Global Connectome*.
16. 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.
17. 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.
18. Symanski CA, Kullberg E and **Jadhav SP** (2019), "Odor-place associative memory in the hippocampal-prefrontal network", *Society for Neuroscience,* 335.25.
19. 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*.
20. 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).
21. Shin JD, Tang W and **Jadhav SP** (2018), "Development of hippocampal-prefrontal representations in parallel with behavioral learning", *Society for Neuroscience,* 424.07.
22. 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.
23. Young RY, Shin JD and **Jadhav SP** (2018), "Dual phase-locking in the hippocampal-prefrontal network", *Society for Neuroscience,* 424.05.
24. Zielinski MC, Shin JD and **Jadhav SP** (2018), "Hippocampal theta supports distinct prefrontal representations on a behavioral timescale", *Society for Neuroscience,* 424.03.
25. Symanski CA, Kullberg E and **Jadhav SP** (2018), "Odor-place associative memory in the hippocampal-prefrontal network", *Society for Neuroscience,* 424.02.
26. Herzog LE, Pascual L, Katz DB and **Jadhav SP** (2018), "Interactions of taste and place coding in the hippocampus", *Society for Neuroscience,* 424.01.
27. 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.
28. 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.
29. 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*.
30. 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.
31. 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.
32. 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.
33. **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.
34. **Jadhav SP**, Frank LM (2013), "Multiple modes of hippocampal-prefrontal interactions during learning", *Society for Neuroscience.* 95.10.
35. **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).

36. **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.

37. **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.

38. **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

Sep 2025	Simons Foundation (SFARI) ARC Annual Meeting
Aug 2025	National Center for Biological Sciences (NCBS), Bengaluru, India
Aug 2025	Center for Neuroscience, Indian Institute of Science (IISc), Bengaluru, India
Dec 2024	Ernst Strungmann Forum, Frankfurt Institute of Advanced Studies
Nov 2024	Tufts Neuroscience Symposium 2024
Sep 2024	Simons Foundation (SFARI) ARC Annual Meeting
May 2024	Computational Properties of Prefrontal Cortex, NIH, Bethesda
Apr 2024	Simons Foundation (SFARI) ARC Meeting
Nov 2023	Society for Neuroscience Mini Symposium
Sep 2023	Neuroscience Seminar Series, University of Texas, Austin
May 2023	Roger Loucks Lecture, Department of Psychology, University of Washington, Seattle
May 2023	NeuroWire Seminar Series, McGill University, Cananda
Apr 2023	Learning and Memory Conference, UC Irvine
Apr 2023	US Army DEVCOM Soldier Center, Natick MA
Mar 2023	Simons Foundation (SFARI) ARC Meeting
Feb 2023	Winter Conference on Neural Plasticity, University of Toronto
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