

**Nanthia Suthana, Ph.D.**

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**EDUCATION:** 2005 B.S. Honors (Neuroscience), UCLA  
2009 Ph.D. (Neuroscience), UCLA

**PROFESSIONAL EXPERIENCE:**

**Present Positions**

Associate Professor-in-Residence, Dept. of Psychiatry & Biobehavioral Sciences, Dept. Neurosurgery / Psychology / Bioengineering, UCLA	2021-present
Associate Director, Neuromodulation Division, Semel Institute of Neuroscience and Human Behavior, UCLA	2015-present
Associate Director for Neuroscience Outreach, Brain Research Institute, UCLA	2016-present

**Previous Positions**

Assistant Professor-in-Residence, Dept. of Psychiatry & Biobehavioral Sciences, Dept. Neurosurgery / Psychology / Bioengineering, UCLA	2015-2021
Assistant Researcher, Department of Neurosurgery, UCLA	2013-2015
Lecturer, Department of Psychology, UCLA	2013-2014
Postdoctoral Scholar, Dept. of Neurosurgery, PI: Itzhak Fried, UCLA	2009-2012
Graduate Student Researcher, Neuroscience Interdepartmental Ph.D. Program, PIs: Susan Bookheimer and Barbara Knowlton, UCLA	2005-2009

**HONORS & SPECIAL AWARDS:**

UCLA DGSOM W. M. Keck Foundation Junior Faculty Award	2020
UCLA Postdoctoral Scholar Mentoring Award	2019
McKnight Technological Innovations in Neuroscience Award	2019
European Journal of Neuroscience Young Investigator Award Lecture, Neuromodulation Symposium, Del Monte Institute for Neuroscience	2019
Ruth and Raymond Stotter Term Chair, Department of Neurosurgery, UCLA	2016
Excellence in Translational Research Award, Department of Neurosurgery, UCLA	2015
Joseph Drown Friends Scholar Award, Friends of the Semel Institute of Neuroscience and Human Behavior, UCLA	2015

**PUBLICATIONS:**

Maoz, S.L., Stangl, M., Topalovic, U., Batista, D., Hiller, S., Aghajan, Z., Knowlton, B., Langevin, J.P., Fried, I., Eliashiv, D., **Suthana, N.** (2023) Dynamic neural representations of memory and space during human ambulatory navigation. Nature Communications. [[link](#)]

Gill, J.\*, Schneiders, J.A.\*, Stangl, M., Aghajan, Z.M., Villaroman, Hiller, S., Topalovic, U., Martelo, M.V., Inman, C.S., Villaroman, D., D., Bari, A., Adhikari, A., Rao, V., Fanselow, M.G., Craske, M., Krahl, S., Chen, J., Vick, M., Hasulak, N., Kao, J., Koek, R.J., **Suthana, N.\*\***, Langevin,

- J.P.\*\*. (2023) Closed-loop neuromodulation for treatment-resistant post-traumatic stress disorder. Nature Communications. 14:2997. \*Co-first authorship, \*\*Co-senior authorship. [[link](#)]
- Stangl, M., Maoz, S.L., **Suthana, N.** (2023) Mobile Cognition: Studying the human brain in the ‘real world’. Nature Reviews Neuroscience. Perspective, 24:347-362. [[link](#)]
- Topalovic U., Barclay, S., Ling, Chenkai, Alzuhair, A., Yu, W., Hokhikyan, V., Chandrakumar, H, Rozgic, D., Jiang, W., Basir-Kazeruni, S., Maoz, S.L., Inman, C., Bari, A., Fallah, A., Eliashiv, D., Fried, I., **Suthana, N.\***, Markovic, D.\* (2023) A wearable platform for closed-loop stimulation and recording of single-neuron and local field potential activity in freely-moving humans. Nature Neuroscience, 26:517-27. \*Co-senior authorship. [[link](#)]
- Feinsinger, A., Pouratian, N., Ebadi, H., Adolphs, R., Andersen, R., Beauchamp, M.S., Chang, E.F., Crone, N.E., Collinger, J.L., Fried I., Mamelak, A., Richardson, M., Rutishauser, U., Sheth, S.A., **Suthana, N.**, Tandon, N., Yoshor, D. (2022) NIH Research Opportunities in Humans Consortium. Ethical commitments, principles, and practices guiding intracranial neuroscientific research in humans. Neuron. 110:188-194. PMID: 35051364. [[link](#)]
- Mobbs, D., Wise, T., **Suthana, N.**, Guzmán, N., Kriegeskorte, N., Leibo, J. Promises and Challenges of Human Computational Ethology. Perspective. (2021) Neuron. 109:2224-2238. PMID: 34143951 [[link](#)]
- Stangl, M., Topalovic, U., Inman, C., Hiller, S., Hasulak, N., Rao, V., Halpern, C., Fried, I., **Suthana, N.** (2021) Boundary-anchored neural mechanisms of location-encoding for self and others. Nature, 589:420-425. PMID: 33361808 [[link](#)]
- Mankin, E.A.\*, Aghajan, Z.\*, Schuette, P.\*, Tran M., Tchemodanov, N., Titiz, A.S., Kalender, G., Eliashiv, D., Stern, J., Weiss, S.A., Kirsch, D., Knowlton, B., Fried, I.\*\*, **Suthana, N.\*\*** (2021) Stimulation of right entorhinal white matter enhances visual memory encoding in humans. \*Equal first authorship. \*Equal senior authorship. Brain Stimulation, 14, 131-40. PMID: 33279717 [[link](#)]
- Topalovic, U., Aghajan, Z.M., Villaroman, D., Hiller, S., Christov-Moore, L., Wishard, T., Stangl, M., Hasulak, N., Inman, C., Fields, T., Eliashiv, D., Fried, I., Rao, V., **Suthana, N.** (2020) Wireless and Programmable Recording and Stimulation of Deep Brain Activity in Freely Moving Humans. Neuron, 108, 322-34. PMID: 32946744 [[link](#)]
- Ramirez-Zamora, A., Giordano, J., Gunduz, A. Alcantara, J., Nathanael J.C., Cerner, S., Difuntorum, P., Eisinger, R.S., Gomez, J., Long, S., Parks, B., Wong, J.K., Chiu, S., Patel, B., Grill, W.M., Walker, H.C., Little, S.J., Gilron, R., Tinkhauser, R., Thevathasan, W., Nicholas Sinclair, Lozano, A., Tom Foltynie, Fasano, A., Sheth, S., Scangos, K., Sanger, T., Miller, J., Brumback, A.C., Rajasethupathy, P., McIntyre, C., Schlachter, L., **Suthana, N.**, Kubu, C., Sankary, L.R., Herrera-Ferrá, K., Goetz, S., Cheeran, B., Steinke, K.G., Hess, C.W., Almeida, Wissam Deeb, L., Foote, K.D., Okun, M.S. (2020) Proceedings of the Seventh Annual Deep Brain Stimulation Think Tank: Advances in Neurophysiology, Adaptive DBS, Virtual Reality, Neuroethics and Technology. Frontiers in Human Neuroscience, Perspective. 14:54. PMID32292333 [[link](#)]
- Olsen, R.K., Carr, V.A., Daugherty, A.M., La Joie, R., Amaral, R.S.C., Amunts, K., Augustinack, J.C., Bakker, A., Berron, D., Boccardi, M., Bocchetta, M., Burggren, A., Chakravarty, M.M., Chetelat, de Flores, R., DeKraaker, J., Ding, S.-L., Geerlings, M., Huang, Y., Johnson, E., Insausti, R., Kanel, P., Kedo, O., Kennedy, K.M., Keresztes, A., Lee, J.K., Lindenberger, U., Mueller, S.G., Mulligan, E.M., Ofen, N., Palombo, D.J., Pasquini, L., Pluta, J.B., Raz, N., Rodrigue, K.M., Schlichting, M.L., Shing, Y.L, Stark, C.E.L., Steve, T.A., **Suthana, N.**, Wang, L., Werkle-Bergner, M., Yushkevich, P.A., and Wisse, L.E.M. (2019). Progress Update from the Hippocampal Subfields Group. Alzheimers Dement (Amst). 11:439-449. PMID31245529. [[link](#)]

- Saravanapandian, V., Sparck, E.M., Cheng, K.Y., Yu, F., Yaeger, C., Hu, T., **Suthana, N.**, Romero-Calderón, R., Ghiani, C.A., Evans, C.J., Carpenter, E.M., Ge, W. (2019) Quantitative Assessments Reveal Improved Neuroscience Engagement and Learning through Outreach. Journal of Neuroscience Research. 97(9):1153-1162. PMID30985023. [[link](#)]
- Ralph-Nearman, C., Arevian, A., Puhl, M., Kumar, R., Villaroman, D., **Suthana, N.**, Feusner, J.D., Khalsa, S.S. (2019) Somatomap: A novel mobile tool assessing body image perception reveals differences between fashion models and non-models. Journal of Medical Internet Resarch Mental Health. PMID31469647. [[link](#)]
- Suthana, N.**, Aghajan, Z.M., Mankin, E.A., Lin, A. (2018) Reporting guidelines and issues to consider for using intracranial brain stimulation in studies of human declarative memory. Frontiers in Neuroscience, Mini-review, 4:12:905. PMID30564089 [[link](#)]
- Reggente, N., Essoe, J.K., M. Aghajan, Z., Tavakoli, A.V., McGuire, J.F., **Suthana, N.**, Rissman, J. (2018) Enhancing the ecological validity of fMRI memory research using virtual reality. Frontiers in Neuroscience, Mini-review, 15:12:408. PMID29962932 [[link](#)]
- Titiz, A.S.\*, Hill, M.R.H.\*, Mankin, E.A.\*, M.Aghajan, Z., Eliashiv, D., Tchemodanov, N., Maoz, U., Stern, J., Tran, M.E., Schuette, P., Behnke, E., **Suthana, N.\*\***, and Fried, I.\*\* (2017) Theta-burst microstimulation in the human entorhinal area improves memory specificity. eLife, 6 PMC5655155. \*Equal first authorship. \*\* Equal senior authorship. [[link](#)]
- Nir, Y., Andrillon, T., Marmelshtein, A., **Suthana, N.**, Cirelli, C., Tononi, G., and Fried, I. (2017) Selective neuronal lapses precede human cognitive lapses following sleep deprivation. Nature Medicine, 23:1474-1480. PMC5720899. [[link](#)]
- Aghajan, Z.M., Schuette, P., Fields, T.A., Tran, M.E., Siddiqui, S.M., Hasulak, N.R., Tcheng, T.K., Eliashiv, D., Mankin, E.A., Stern, J., Fried, I., and **Suthana, N.** (2017) Theta Oscillations in the Human Medial Temporal Lobe during Real-World Ambulatory Movement. Current Biology, 27:3743-3751.e3. PMC5937848. [[link](#)]
- Wisse, L.E.M.\*, Daugherty, A.M.\*, Olsen, R.K., Berron, D., Carr, V.A., Stark, C.E.L., Amaral, R.S.C., Amunts, K., Augustinack, J.C., Bender, A.R., Bernstein, J.D., Boccardi, M., Bocchetta, M., Burggren, A., Chakravarty, M.M., Chupin, M., Ekstrom, A., de Flores, R., Insausti, R., Kanel, P., Kedo, O., Kennedy, K.M., Kerchner, G.A., LaRocque, K.F., Liu, X., Maass, A., Malykhin, N., Mueller, S.G., Ofen, N., Palombo, D.J., Parekh, M.B., Pluta, J.B., Pruessner, J.C., Raz, N., Rodrigue, K.M., Schoemaker, D., Shafer, A.T., Steve, T.A., **Suthana, N.**, Wang, L., Winterburn, J.L., Yassa, M.A., Yushkevich, P.A., and la Joie, R. (2017) A harmonized segmentation protocol for hippocampal and parahippocampal subregions: Why do we need one and what are the key goals? Hippocampus, 27:3-11. PMC5167633. \*Equal first autorship. [[link](#)]
- Cohen, M.S., Rissman, J., **Suthana, N.**, Castel, A.D., and Knowlton, B.J. (2016) Effects of aging on value-directed modulation of semantic network activity during verbal learning. Neuroimage, 125:1046-1062. PMC4794448. [[link](#)]
- Suthana, N.**, Parikshak, N.N., Ekstrom, A.D., Ison, M.J., Knowlton, B.J., Bookheimer, S.Y., and Fried, I. (2015) Specific responses of human hippocampal neurons are associated with better memory. Proceedings of the National Academy of Sciences of the United States of America, 112:10503-8. PMC4547223. [[link](#)]
- Suthana, N.**, Donix, M., Wozny, D.R., Bazih, A., Jones, M., Heidemann, R.M., Trampel, R., Ekstrom, A.D., Scharf, M., Knowlton, B., Turner, R., and Bookheimer, S.Y. (2015) High-resolution 7T fMRI

of Human Hippocampal Subfields during Associative Learning. Journal of Cognitive Neuroscience, 27:1194-1206. PMC4417053. [\[link\]](#)

Yushkevich, P.A., Amaral, R.S., Augustinack, J.C., Bender, A.R., Bernstein, J.D., Boccardi, M., Bocchetta, M., Burggren, A.C., Carr, V.A., Chakravarty, M.M., Chetelat, G., Daugherty, A.M., Davachi, L., Ding, S.L., Ekstrom, A., Geerlings, M.I., Hassan, A., Huang, Y., Iglesias, J.E., La Joie, R., Kerchner, G.A., LaRocque, K.F., Libby, L.A., Malykhin, N., Mueller, S.G., Olsen, R.K., Palombo, D.J., Parekh, M.B., Pluta, J.B., Preston, A.R., Pruessner, J.C., Ranganath, C., Raz, N., Schlichting, M.L., Schoemaker, D., Singh, S., Stark, C.E., **Suthana, N.**, Tompary, A., Turowski, M.M., Van Leemput, K., Wagner, A.D., Wang, L., Winterburn, J.L., Wisse, L.E., Yassa, M.A., and Zeineh, M.M. (2015) Quantitative comparison of 21 protocols for labeling hippocampal subfields and parahippocampal subregions in in vivo MRI: towards a harmonized segmentation protocol. Neuroimage, 111:526-41. PMC4387011. [\[link\]](#)

Miller, J.F., Fried, I., **Suthana, N.**, and Jacobs, J. (2015) Repeating spatial activations in human entorhinal cortex. Current Biology, 25:1080-5. PMC4422049. [\[link\]](#)

Wagshal, D., Knowlton, B.J., **Suthana, N.**, Cohen, J.R., Poldrack, R.A., Bookheimer, S.Y., Bilder, R.M., and Asarnow, R.F. (2014) Evidence for corticostriatal dysfunction during cognitive skill learning in adolescent siblings of patients with childhood-onset schizophrenia. Schizophrenia Bulletin, 40:1030-9. PMC4133665. [\[link\]](#)

**Suthana, N.**, Fried, I. (2014) Deep Brain Stimulation for Enhancement of Learning and Memory. Neuroimage, Review, 85:996-1002, PMID23921099. [\[link\]](#)

Cohen, M.S., Rissman, J., **Suthana, N.**, Castel, A.D., and Knowlton, B.J. (2014) Value-based modulation of memory encoding involves strategic engagement of fronto-temporal semantic processing regions. Cognitive, Affective and Behavioral Neuroscience, 14:578-92. PMC4074434. [\[link\]](#)

Jacobs, J., Weidemann, C.T., Miller, J.F., Solway, A., Burke, J.F., Wei, X.-X., **Suthana, N.**, Sperling, M.R., Sharan, A.D., Fried, I., and Kahana, M.J. (2013) Direct recordings of grid-like neuronal activity in human spatial navigation. Nature Neuroscience 16:1188. [\[link\]](#)

Donix, M., Burggren, A.C., Scharf, M., Marschner, K., **Suthana, N.**, Siddarth, P., Krupa, A.K., Jones, M., Martin-Harris, L., Ercoli, L.M., Miller, K.J., Werner, A., von Kummer, R., Sauer, C., Small, G.W., Holthoff, V.A., and Bookheimer, S.Y. (2013) APOE associated hemispheric asymmetry of entorhinal cortical thickness in aging and Alzheimer's disease. Psychiatry Research, 214:212-20. PMC3851589. [\[link\]](#)

Staba, R.J., Ekstrom, A.D., **Suthana, N.**, Burggren, A., Fried, I., Engel, J., Jr., and Bookheimer, S.Y. (2012) Gray matter loss correlates with mesial temporal lobe neuronal hyperexcitability inside the human seizure-onset zone. Epilepsia, 53:25-34. PMC3253228. [\[link\]](#)

**Suthana, N.**, Haneef, Z., Stern, J., Mukamel, R., Behnke, E., Knowlton, B., and Fried, I. (2012) Memory Enhancement and Deep-Brain Stimulation of the Entorhinal Area. New England Journal of Medicine, 366:502-510. PMC3447081. [\[link\]](#)

**Suthana, N.**, Fried, I. (2012) Percepts to recollections: Insight from single neuron recordings in the human brain. Trends in Cognitive Science, Review, 16:427-36, PMID22795560. [\[link\]](#)

Kern, K.C., Ekstrom, A.D., **Suthana, N.**, Giesser, B.S., Montag, M., Arshanapalli, A., Bookheimer, S.Y., and Sicotte, N.L. (2012) Fornix damage limits verbal memory functional compensation in multiple sclerosis. Neuroimage, 59:2932-40. PMID22001266. [\[link\]](#)

- Romero-Calderón, R., O'Hare, E.D., **Suthana, N.**, Scott-Van Zeeland, A.A., Rizk-Jackson, A., Attar, A., Madsen, S.K., Ghiani, C.A., Evans, C.J., and Watson, J.B. (2012) Project brainstorm: using neuroscience to connect college students with local schools. PLoS Biology, 10:e1001310. PMC3328426. [[link](#)]
- Burggren, A.C., Renner, B., Jones, M., Donix, M., **Suthana, N.**, Martin-Harris, L., Ercoli, L.M., Miller, K.J., Siddarth, P., Small, G.W., and Bookheimer, S.Y. (2011) Thickness in entorhinal and subicular cortex predicts episodic memory decline in mild cognitive impairment. International Journal of Alzheimer's Disease, 2011: 956053. PMC3089880. [[link](#)]
- Suthana, N.**, Ekstrom, A., Moshirvaziri, S., Knowlton, B., and Bookheimer, S. (2011) Dissociations within human hippocampal subregions during encoding and retrieval of spatial information. Hippocampus, 21:694-701. PMC3026858. [[link](#)]
- Donix, M., Burggren, A.C., **Suthana, N.**, Siddarth, P., Ekstrom, A.D., Krupa, A.K., Jones, M., Martin-Harris, L., Ercoli, L.M., Miller, K.J., Small, G.W., and Bookheimer, S.Y. (2010) Family history of Alzheimer's disease and hippocampal structure in healthy people. American Journal of Psychiatry, 167:1399-406. PMC3086166. [[link](#)]
- Suthana, N.**, Krupa, A., Donix, M., Burggren, A., Ekstrom, A.D., Jones, M., Ercoli, L.M., Miller, K.J., Siddarth, P., Small, G.W., and Bookheimer, S.Y. (2010) Reduced hippocampal CA2, CA3, and dentate gyrus activity in asymptomatic people at genetic risk for Alzheimer's disease. Neuroimage, 53:1077-84. PMC3260048. [[link](#)]
- Donix, M., Burggren, A.C., **Suthana, N.**, Siddarth, P., Ekstrom, A.D., Krupa, A.K., Jones, M., Rao, A., Martin-Harris, L., Ercoli, L.M., Miller, K.J., Small, G.W., and Bookheimer, S.Y. (2010) Longitudinal changes in medial temporal cortical thickness in normal subjects with the APOE-4 polymorphism. Neuroimage, 53:37-43. PMC3118546. [[link](#)]
- Suthana, N.**, Ekstrom, A.D., Moshirvaziri, S., Knowlton, B., and Bookheimer, S.Y. (2009) Human hippocampal CA1 involvement during allocentric encoding of spatial information. Journal of Neuroscience, 29:10512-9. PMC2873654. [[link](#)]
- Ekstrom, A., **Suthana, N.**, Millett, D., Fried, I., and Bookheimer, S. (2009) Correlation between BOLD fMRI and theta-band local field potentials in the human hippocampal area. Journal of Neurophysiology, 101:2668-78. PMC2681439. [[link](#)]
- Ekstrom, A.D., Bazih, A.J., **Suthana, N.**, Al-Hakim, R., Ogura, K., Zeineh, M., Burggren, A.C., and Bookheimer, S.Y. (2009) Advances in high-resolution imaging and computational unfolding of the human hippocampus. Neuroimage, 47:42-9. PMC2689320. [[link](#)]
- Ekstrom, A., **Suthana, N.**, Behnke, E., Salamon, N., Bookheimer, S., and Fried, I. (2008) High-resolution depth electrode localization and imaging in patients with pharmacologically intractable epilepsy. Journal of Neurosurgery, 108:812-5. PMC2628813. [[link](#)]
- Wang, L.M., **Suthana, N.**, Chaudhury, D., Weaver, D.R., and Colwell, C.S. (2005) Melatonin inhibits hippocampal long-term potentiation. European Journal of Neuroscience, 22:2231-7. PMC2581482. [[link](#)]

### *Book Chapters*

- Suthana, N.**, and Fried, I. (2013) "Navigating our Environment: Insight from single neuron recordings from the human brain" in Chapter 9 of Atoms of Cognition. Probing single neurons in the human brain. Publisher: MIT Press.

Ezzyat, Y., and **Suthana, N.** (2022) “Brain Stimulation” in Handbook of Human Memory. Publisher: Oxford University Press. In Press.

Maoz, S., Stangl, M., Suthana, N. (2022) “Promises and challenges of mobile iEEG recordings” in Intracranial EEG for Cognitive Neuroscience. Publisher: Springer, STM. Accepted.

## RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:

### *Current Grants*

NIH UO1 NS117838, NINDS 07/01/2020 - 06/30/2025  
Neurostimulation and Recording of Real World Spatial Navigation in Humans  
Role: **Principal Investigator**

NIH RO1 AG068317, NIA 07/01/2020 - 06/30/2025  
Network-targeted theta-burst stimulation for episodic memory improvement in MCI  
Role: **Co-Principal Investigator** (PIs: N. Suthana, A. Leuchter)

NIH RO1 MH124761, NIMH 07/01/2021 - 06/30/2026  
Intracranial neurophysiological signatures of fear and anxiety in humans  
Role: **Co-Principal Investigator** (PIs: N. Suthana, J.P. Langevin)

NIH T32 TNS115753, NINDS 07/01/2020-06/30/2025  
Training in Neurotechnology Translation  
Role: **Co-Principal Investigator** (PIs: N. Suthana, D. Lu, D. Markovic)

NIH UO1 NS121472, NINDS 07/01/2021 - 06/30/2026  
Mapping Algorithmic State Space in the Human Brain  
Role: **Co-Investigator** (PI: S. Sheth)

NIH UH3 NS107673, NINDS 10/01/2019-09/31/2024  
Responsive Neurostimulation for Post-Traumatic Stress Disorder  
Role: **Co-Investigator** (PI: J.P. Langevin)

NIH RO1 NS084017, NINDS 09/01/2018-08/31/2023  
Mechanisms of Memory Enhancement by Deep Brain Stimulation in Humans  
Role: **Co-Investigator** (PI: I. Fried)

### *Completed Grants*

UCLA DGSOM W. M. Keck Foundation Junior Faculty Award 01/01/2020-12/31/2022  
Deep Brain Recording and Stimulation of Human Experiences in the Wild  
Role: **Principal Investigator**

McKnight Foundation Technological Innovations in Neuroscience 08/01/2019-07/31/2022  
Wireless and Programmable Recording and Stimulation of Deep Brain Activity in Freely Moving Humans Immersed in Virtual (or Augmented) Reality  
Role: **Principal Investigator**

Zenith Award, ZEN-20-643042, Alzheimer’s Association 02/01/2020-01/31/2022  
Modulation of Hippocampal Circuitry with Focused Ultrasound in MCI  
Role: **Co-Investigator** (PI: S. Bookheimer)

NIH UO1 NS103802, NINDS 09/25/2017-08/24/2020  
Neurostimulation and Recording of Real World Spatial Navigation in Humans

**Role: Principal Investigator**

NIH UO1 NS103802-Supplement, NINDS  
Data sharing

09/25/2018-08/24/2019

**Role: Principal Investigator**

Joseph Drown Friends Scholar Award, Jane and Terry Semel Institute  
for Neuroscience & Human Behavior, UCLA

07/01/2015-06/30/2017

**Role: Principal Investigator**

**SELECTED SEMINARS AND PRESENTATIONS:**

*Neuroscience Institute, New York University, New York, February, 2024*

*Fralin Biomedical Research Institute, Virginia Tech, Roanoke, VA, February, 2024*

*Rice Neuroengineering Initiative, Rice University, Houston, Tx, November, 2023*

*Duke Neurobiology, Duke University, Durham, NC, November, 2023*

*Brain Initiative Investigator's Meeting, Washington D.C., June, 2023*

*Spring Hippocampal Research Conference, Verona, Italy, June, 2023*

*Kavli Institute for Systems Neuroscience, Trondheim, Norway, March, 2023*

*Neural Engineering Training Program, University of Michigan, Ann Arbor, MI, April, 2023*

*Cognitive Neuroscience Society Meeting, San Francisco, CA, March, 2023*

*Winter School on Brains & Computations, University of California, San Diego, December, 2022*

*Stanford Psychiatry Grand Rounds, Wu Tsai Neuroscience Seminar, Stanford University, April, 2022*

*Evolution of memory across time and experience workshop, Cosyne, Lisbon, Portugal, March, 2022*

*Brain Behavior Quantification and Synchronization Workshop, NIH, Virtual Meeting March, 2022*

*Innovators in Cognitive Neuroscience series, Virtual Meeting, February, 2022*

*Center for Cognitive Neuroscience, Duke University, Virtual Meeting, December, 2021*

*Brain Meeting, Wellcome Centre for Human Neuroimaging, UCL, Virtual Meeting, Oct, 2021*

*Mahoney Institute for Neuroscience, University of Pennsylvania, Philadelphia, PA, Sept, 2021*

*Neuroengineering Seminar Series, University of Minnesota, Virtual Meeting, March, 2021*

*Society for Neuroscience Connectome, Session Chair & Speaker, Virtual Meeting, Jan, 2021*

*Human Single-unit Meeting, California Institute of Technology, Pasadena, CA, November 2020*

*Neuromatch 3.0, Keynote, Virtual Meeting, Oct, 2020*

*Frontiers in Neuropsychiatry Seminars, Cornell University, Ithaca, NY, Oct, 2020*

*Winter Conference in Neural Plasticity, St. Kitts, St. Kitts and Nevis, Caribbean, Feb 2020*

*Neurorehabilitation Seminar Series / Neuroimaging & Informatics Seminar Series, USC, Feb 2020*

*North American Neuromodulation Society Meeting, Las Vegas, Nevada, Jan 2020*

*Baylor College of Medicine, Houston, Texas, Nov 2019*

*Neuromodulation Symposium, Del Monte Institute for Neuroscience, Rochester, NY, Oct 2019*

*Memory Disorders Research Society Meeting, New York, Oct 2019*

*Deep Brain Stimulation Think Tank, Orlando, Florida, Sept 2019*

*Spring Hippocampus Research Conference, Taormina, Sicily, Italy, June 2019*

*World Society for Stereotactic and Functional Neurosurgery, New York, June 2019*

*Neural Prosthesis Seminar Series, Case Western Reserve University, Cleveland, OH, Nov 2018*

*Human Single-unit Meeting, California Institute of Technology, Pasadena, CA, November 2018*

*Psychiatry Grand Rounds*, Dartmouth-Hitchcock Medical Center, Lebanon, NH, October 2018  
*iNAV Symposium*, Mont Tremblanc, Quebec, Canada, June 2018  
*Cognitive Neuroscience Society Annual Meeting*, Boston, MA, March 2018  
*International Conference on Memory*, Budapest, Hungary, July 2016  
*UT Austin Conference on Learning & Memory*, Session chair & speaker, Austin, TX, April 2017  
*Clinical and Translational Neuroscience Workshop*, U of Illinois, Urbana Champaign, IL, April 2016  
*Winter Conference in Neural Plasticity*, Maui, HI, Feb 2016  
*Center for Molecular and Behavioral Neuroscience*, Rutgers University, Newark, NJ, January 2015

**TEACHING EXPERIENCE:**

Introduction to Signal Processing for Neuroscientists ( <i>Neuroscience 260</i> ), Graduate Students, Co-faculty: Sotiris Masmanidis and Daniel Aharoni	Winter 2019-24
Behavioral and Cognitive Neuroscience (Neuroscience 101C), Undergraduate	Spring 2021-23
Competitive Edge Course for URM STEM Graduate Students (Topic: Presentation skills)	Summer 2013-23
Human Single Neuron and Oscillatory Mechanisms of Cognition ( <i>Psychology 207b</i> ), Graduate Students	Winter 2017
Medical Neurosciences, David Geffen School of Medicine, Medical Students Lead-faculty: James Bisley	Spring, 2015
Behavioral Neuroscience ( <i>Psychology 115</i> ), Undergraduate	Summer, 2015
Cognitive Neuroscience ( <i>Psychology 119C</i> ), Undergraduate	Fall 2012, Summer 2013-14
Introduction to Psychobiology ( <i>Psychology 15</i> ), Undergraduate	Spring 2013
Introduction to Psychology ( <i>Psychology 10</i> ), Undergraduate	Spring 2013
Physiological Psychology of Learning ( <i>Psychology 119M</i> ), Undergraduate	Spring 2013
Behavioral Neuroscience Laboratory ( <i>Psychology 116</i> ), Undergraduate Co-faculty: William Grisham	Summer 2012, Fall 2013

**SERVICE:**

Reviewing Editor, eLife	2020-2023
Ad hoc reviewer, Brain, Brain Stimulation, Cell, Current Biology, eLife, Journal of Neuroscience, Hippocampus, IEEE Design and Test, JAMA, NEJM, Nature, Nature Communications, Nature Human Behavior, Nature Medicine, Nature Neuroscience, Neuron, Neuroimage, PNAS, Science Advances, Trends in Cognitive Science	2014-present
National Institute of Health, Study section ad hoc reviewer	2020-21
Admissions Committee, UCLA MSTP Program, Member	2020
Internal Advisory Committee, UCLA-HBCU Neuroscience Pathways Program (HBCU - Historically Black Colleges and Universities)	2020-present
Postdoctoral Scholars Advisory Council, UCLA Graduate Division, Member	2016-present
Brain Research Institute Steering Committee, Member, UCLA	2015-present
Faculty search committee, UCLA Neuroscience theme, Member	2019
Admissions Committee, UCLA Neuroscience Ph.D. Program, Chair	2017
Admissions Committee, UCLA Neuroscience Ph.D. Program, Member	2015