

## STEPHANIE R. JONES, PHD

Professor

Department of Neuroscience, Brown University

<https://sites.brown.edu/stephanie-r-jones-lab/>

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## EDUCATION

*Undergraduate:* BA, Mathematics (Computer Science minor), *Magna Cum Laude*  
1993 Boston College, Chestnut Hill, MA

*Graduate:* MA, Mathematics  
1995 Boston College, Chestnut Hill, MA

2001 PhD, Mathematics  
Disciplines: Dynamical Systems Theory and Computational Neuroscience  
Advisor: Nancy Kopell, Boston University, Boston, MA

*Research Fellow:* Training in Neuroscience & Human Neurophysiology (MEG/EEG)  
2001-2005 Athinola A. Martinos Center for Biomedical Imaging  
Massachusetts General Hospital / Harvard Medical School, Boston, MA

## PROFESSIONAL APPOINTMENTS

2023-present Professor, Brown University, Providence, RI

2016-2024 Computational Neuroscientist, CfNN, Providence Veteran's Medical Center, RI

2018-2023 Associate Professor, Brown University, Providence, RI

2016-2018 Associate Research Professor, Brown University, Providence, RI

2011-2016 Assistant Research Professor, Brown University, Providence, RI

2011-2013 Associate Scientist, Newborn Medicine Boston Children's Hospital, Boston, MA

2005-2013 Assistant in Neuroscience, Martinos Center Mass. General Hosp., Boston, MA

2005-2011 Faculty, Harvard Medical School, Boston, MA

## HONORS and AWARDS

2025 Graduate School Faculty Award for Advising and Mentoring, Brown University

2025 Nominated for NINDS Landis Award for Outstanding Mentorship (award pending)

2025 Zimmerman Innovation Award, Carney Institute for Brain Science, Brown Univ.

2024 Brown Biomedical Innovations to Impact Award

2023 MIT/Brown Faculty Founders Competition Award

2022 Zimmerman Innovation Award, Carney Institute for Brain Science, Brown Univ.

2020 BIOMAG 2020 Mid-Career Award, Society for Biomagnetism

2019 Open-Source Technology Event SFN: Best Speed Dating Demonstration

2016 NIH BRAIN Initiative Award

2014 Dean's Emerging Areas of New Science (DEANS) Award, Brown Univ. BioMed

2012 & 2013 New Frontiers Award, Brown Univ. / Norman Prince Neuroscience Institute

2012 Harvard Catalyst Advanced Imaging Award, Harvard Translational Science Center

2011 Scholars in Medicine Dr. Lynne Reid /Shore Fellowship, Harvard Medical School

2008 Claflin Distinguished Scholar Award, Harvard Medical School

1993-1995 Dean's Fellowship, Dept. of Mathematics, Boston College

1993 Phi Beta Kappa, National Honor Society, Boston College

1993 Alfred A. Bennet Excellence in Mathematics Teaching Award, Boston College

## ADMINISTRATIVE and SCIENTIFIC LEADERSHIP POSITIONS (past 5 years)

2023-present	Science Advisory Board: NIMH CONTE Center: The Cognitive Thalamus
2022-2024	Brown University Neuroscience Graduate Program Admissions Committee
2022	Co-editor: Frontiers Special Issue “Understanding the Importance of Oscillatory Events: Methods, Characteristics and their Role in Information Coding”
2022-present	Dept. of Neuroscience First Year Graduate Student Advisor
2021-present	Dept. of Neuroscience Committee for Academic Reappointments & Promotions
2021-present	Science Advisory Board: National Fragile X Center, Cincinnati Children’s Hospital
2019-present	Science Advisory Board: Neuroscience Gateway Portal
2019-present	Science Advisory Board: Neuroelectromagnetic Data Archive & Tools Resource
2019-present	Science Advisory Board: European R.C. Project: ConnectToBrain
2019-present	Undergraduate Advisor Brown University Academic Advising
2018-2024	Director of Core for Decoding, Recording and Computational Neurosci. CfNN, Providence VA Medical Center
2021	Panel Advisor in NIH Workshop: BRAIN Initiative Transformative Non-Invasive Imaging Technology, Online
2021	Steering Committee: Brown U. Medical School Umbrella PhD Program
2021	Steering Committee: Brown U. Interdisciplinary Training in Comp. Neuroscience
2019	Co-editor: Frontiers Special Issue “Biomarkers of Neurodevelopment Disorders”

## GRANT REVIEW PANEL MEMBERSHIP (past 5 years)

2023	NIH Review Panel: Integration and Analysis of BRAIN Initiative Data
2022	Medical Res. Council: Japan UK Research Collaboration in Neuroscience
2022	Carney Institute Innovator Award Review Committee
2021	NIH: U19 From Genomic Association to Causation
2019	NIH Review Panel: Biobehavioral Awards for Innovative New Scientists
2019	NIH Review Panel: “Computational Approaches for Validating Dimensional Constructs of Relevance to Psychopathology”

## CONFERENCE and SYMPOSIUM ORGANIZATION (past 5 years)

2022-2025	<b>Summer Workshop Co-Organizer</b> Bi-annual Joint Brown University and Ben Gurion University summer workshop on Neurotechnology,
2021-2022	<b>Conference Series Co-Organizer</b> Catherine Kerr Vital Energy in Health and Healing Series, Online
2020	<b>Scientific Committee Member</b> for 22 <sup>nd</sup> International Conference on Biomagnetism
2019-2022	<b>Conference Organization Scientific Committee</b> International Conference on Biomagnetism (BIOMAG), Birmingham UK

## ENTREPRENEURSHIP TRAINING

2025	Washington University <i>Equalize Startups Award 2025 Cohort Member</i>
2024	Brown University: Biomedical Innovation to Impact (BBII) <i>Steven J. Massarsky Biomedical Research Innovation Award</i>
2023	Massachusetts Institute of Technology (MIT)/Brown University

## **PATENTS and PATENT APPLICATIONS**

Tolley, Nicholas and **Jones, Stephanie**. 2024. Estimation Of Parameters in Biophysically Detailed Neural Models with Simulation Based Inference. 63/567,108, filed March 19, 2024. Patent pending.

Zhou, David and **Jones, Stephanie**. 2023. System and Method for Dissecting Beta Waveforms Using Convolutional Dictionary Learning. 63/464.340, filed May 6, 2024. Patent pending.

## **CURRENT GRANTS (completed grants listed below after software contributions)**

### **Current Research and Training Grants as Principal Investigator or Co-Investigator**

2025-2026	<b>Zimmerman Innovation Award, Carney Institute of Brain Science</b> <b>Role: PI</b> Discovering & interpreting novel biomarkers of Alzheimer's Disease (AD) Progression in longitudinal MEG data
2025-2029	<b>R01NS134948   NINDS</b> <b>Role: Co-I</b> (PI A. Levin, Boston Children's Hospital) Paradoxical Sensory Responses: A Clue Towards Understanding Biotypes in Autism Spectrum Disorder and Other Neurodevelopmental Disorders
2024-2029	<b>T32 MH115895   NIMH NIH Training Program in Interactionist Cognitive Neuroscience</b> <b>Role: PI</b> ( Co-PIs: C. Moore, M. Frank, D. Badre)
2024-2029	<b>P50 AA022534   NIAAA</b> <b>Role: Co-I</b> (Project PI J. Stephens, University of New Mexico) Fetal Ethanol-induced behavior deficit: Mechanisms, diagnosis and Intervention
2024-2025	<b>Brown Biomedical Innovations to Impact Award, Brown Tech. License Office</b> <b>Role: PI</b> Unlocking Neurotherapeutics with Predictive Brain Simulations
2023-2028	<b>R25 NS130655   NINDS Brown University Summer Scholars Program in Computational Brain Science</b> <b>Role: PI</b> (Co-PIs: K. Webster & J. Ritt, Brown University)
2023-2028	<b>U24 NS129945   NINDS</b> <b>Role: PI</b> Dissemination of the Human Neocortical Neurosolver software for circuit level interpretation of human MEG/EEG
2023-2028	<b>P50 MH109429  NIMH</b> <b>Role: Project Leader</b> (Center PIs C. Schroder & M. Milham, Nathan Kline Inst.) CONTE Center: Neurobiology and cognitive role of slow brain network fluctuations
2023-2028	<b>R01 HD108222   NICHD</b> <b>Role: Co-I</b> (PI E. Pedapati, Cincinnati Children's Hosp.) Perturbation of neurodynamics underlying sensory hyperarousal and statistical learning in youth with FXS
2023-2026	<b>UG3 EB034696   NIBIB</b> <b>Role: Co-I</b> (PI G. Xiao, Brown University) Development of Quantum Magnetic Tunneling Junction Sensor Arrays for Brain Magnetoencephalography under Natural Settings

- 2023-2025 **MIT/Brown Faculty Founders Competition Award**  
**Role: PI**  
Innovations in Neurotechnology
- 2022-2025 **R01 MH130415 | NIMH**  
**Role: PI**  
Secondary analysis of resting state MEG data using the Human Neocortical Neurosolver software tool for cellular and circuit-level interpretation
- 2021-2025 **R01 AG076227 | NIA**  
**Role: PI** (Co-PI: F. Maestu, Complutense U. Madrid)  
CRCNS: US-Spain Research Proposal: Interpreting MEG Biomarkers of Alzheimer's Progression with Human Neocortical Neurosolver
- 2017 – 2025 **Berkman-Landis Family Fund Gift**  
**Role: PI** in stewardship for late Dr. Catherine Kerr  
Supporting Research in Patient Healing, Self Efficacy, and Vitality

#### Current Grants as Mentor or Trainer

- 2022-2027 **NIH: R35 Advancing the Research Careers of Women & PEERs in Brain Science**  
**Role: Quantitative Methods Consultant** (PI: Lipscome)
- 2021-2026 **NIH: K23 Mentored Patient-Oriented Research Career**  
**Role: Co-Mentor** (PI. B. Kavanaugh)
- 2020-2025 **NIH: K23 Mentored Patient-Oriented Research Career**  
**Role: Co-Mentor** (PI. L. Korthauer)
- 2020-2025 **NIH: Brown Postdoctoral Training Program in Computational Psychiatry**  
**Role: Trainer** (PI: Frank/Serre/Rasmussen)
- 2012-present **NIH: T32 Training in Neuroscience**  
**Role: Trainer** (PI: Lipscome/Sheinberg)

## RESEARCH

### Journal Articles (reverse chronological)

A full list of my journal publications can be found at

[https://scholar.google.com/citations?hl=en&user=H2lcpR0AAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=H2lcpR0AAAAJ&view_op=list_works&sortby=pubdate)

1. Thorpe RV, Moore CI, **Jones SR** (2025). Ensemble priming via competitive inhibition: local mechanisms of sensory context storage and deviance detection in the neocortical column. bioRxiv <https://doi.org/10.1101/2025.01.08.631952>.
2. Shpakivska-Bilan D, Susi G, Zhou DW, Cabrera J, Carvajal BP, Pereda E, Lopez ME, Bruña R, Maestu F, **Jones SR** (2024). High power transient 12-29Hz beta event features as early biomarkers of Alzheimer's Disease conversion: a MEG study. medRxiv <https://doi.org/10.1101/2024.09.13.24313611>
3. Mackey CA, Duecker K, Neymotin S, Dura-Bernal S, Haegens S, Barczak A, O'Connell MN, **Jones SR**, Ding M, Ghuman AS, Schroeder CE (2024). Is there a ubiquitous spectrolaminar motif of local field potential power across primate neocortex? bioRxiv <https://doi.org/10.1101/2024.09.18.613490>.
4. Kavanaugh BC, Vigne MM, Tirrell E, Luke Acuff W, Fukuda AM, Thorpe R, Sherman A, **Jones SR**, Carpenter LL, Tyrka AR (2024). Frontoparietal beta event characteristics are associated with early life stress and psychiatric symptoms in adults. Brain and cognition. 177:106164. doi: 10.1016/j.bandc.2024.106164

5. Diesburg DA, Wessel JR, **Jones SR** (2024) Biophysical Modeling of Frontocentral ERP Generation Links Circuit-Level Mechanisms of Action-Stopping to a Behavioral Race Model. *The Journal of Neuroscience*. 44(20):e2016232024. doi: 10.1523/JNEUROSCI.2016-23.2024
6. Tolley N, Rodrigues PLC, Gramfort A, **Jones SR**. (2024). Methods and considerations for estimating parameters in biophysically detailed neural models with simulation based inference. *PLoS Computational Biology*, 20(2), e1011108. <https://doi.org/10.1371/journal.pcbi.1011108>
7. Thorpe RV, Black CJ, Borton DA, Hu L, Saab CY, **Jones SR** (2024) Distinct neocortical mechanisms underlie human SI responses to median nerve and laser evoked peripheral activation. *Imaging Neuroscience*. 2:1–29.
8. Mainak Jas, Ryan Thorpe, Nicholas Tolley, Christopher Bailey, Steven Brandt, Blake Caldwell, Huzi Cheng, Dylan Daniels, ... **Jones SR** (2023) HNN-core: A python software for cellular and circuit-level interpretation of human MEG/EEG *Journal of Open-Source Software* 8 (92), 5848
9. Kavanaugh BC, Fukuda AM, Gemelli ZT, Thorpe R, Tirrell E, Vigne M, ... **Jones SR** (2023) Pre-treatment frontal beta events are associated with executive dysfunction improvement after repetitive transcranial magnetic stimulation for depression: A preliminary Report *Journal of Psychiatric Research* 168, 71-81
10. Diesburg DA, Wessel JR, **Jones SR**. (2024). Biophysical Modeling of Frontocentral ERP Generation Links Circuit-Level Mechanisms of Action-Stopping to a Behavioral Race Model. *The Journal of Neuroscience*, 44(20), e2016232024-. <https://doi.org/10.1523/JNEUROSCI.2016-23.2024>
11. SD McKeon, F Calabro, RV Thorpe, A de la Fuente, W Foran, AC Parr, ... **Jones SR** (2023) Age-related differences in transient gamma band activity during working memory maintenance through adolescence *NeuroImage* 274, 120112
12. CS Zimmerman, S Temereanca, D Daniels, C Penner, T Cannonier, ... **Jones SR** (2023) A Randomized Controlled Pilot Trial Comparing Effects of Qigong and Exercise/Nutrition Training on Fatigue and Other Outcomes in Female Cancer Survivors. *Integrative Cancer Therapies* 22, 15347354231162584
13. Morris S, Temereanca S, Zandvakili A, Thorpe, R, Sliva D, Greenberg BD, Carpenter LL, Philip NS, **Jones SR** (2023) Fronto-central resting-state 15-29Hz transient beta event features change with therapeutic transcranial magnetic stimulation for posttraumatic stress disorder and major depressive disorder. *Scientific Reports*, 2023; 13 (1), 6366.
14. Zimmerman C, Temereanca S, Daniels D, Penner C, Cannonier T, **Jones SR** and Kerr C<sup>+</sup> (2022) The Vitality Project: A Randomized Control Trial Comparing Qigong and Exercise/Nutrition Training on Fatigue, Emotional Health, and Stress in Fatigued Female Cancer Survivors. *Journal of Integrative Cancer Therapies*. 2023 15347354231162584  
<sup>+</sup> In memorium of Catherine Kerr  
<sup>\*\*</sup> Co-Senior author
15. Neymotin S, Tal I, Barczak A, O'Connell M, McGinnis T, Markowitz N, Espinal E, Griffith E, Anwar H, Dura-Bernal S, Schroeder C, Lytton W, **Jones SR**, Bickel S, Lakatos P (2022) Detecting spontaneous neural oscillation events in primary auditory cortex. *eNeuro* ENEURO.0281-21.2022. doi: 10.1523/ENEURO.0281-21.2022.
16. Moolchand P, **Jones SR**<sup>\*\*</sup> and Frank MJ (2022) Biophysical and Architectural Mechanisms of Subthalamic Theta under Response Conflict. *J. Neuroscience* 10.1523/JNEUROSCI.2433-19.2022 <https://doi.org/10.1523/JNEUROSCI.2433-19.2022>  
<sup>\*\*</sup> Co-Senior author, senior contribution on computational neural modeling component

17. Thorpe RV, Black CJ, Borton DA, Hu L, Saab, CY Jones SR Distinct neocortical mechanisms underlie human SI responses to median nerve and laser evoked peripheral activation. (2021) bioRxiv <https://doi.org/10.1101/2021.10.11.463545>
18. Bonaiuto JJ, Little S, Neymotin SA, **Jones SR**, R Barnes GR, Bestmann S (2021) Laminar dynamics of beta bursts in human motor cortex. *Neuroimage* 242:118479. <https://doi.org/10.1016/j.neuroimage.2021.118479> .  
\*\* Senior author contribution on computational neural modeling component
19. Law RG, Pugliese S, Shin H, Sliva DD, Lee S, Neymotin SA, Moore CI, **Jones SR** (2021) Thalamocortical mechanisms regulating the relationship between transient beta events and human tactile perception. *Cerebral Cortex*, 00:1-21, doi: <https://doi.org/10.1093/cercor/bhab221>
20. Jas M, **Jones SR**, Hämäläinen MS (2021) Whole-head OPM-MEG enables noninvasive assessment of functional connectivity. *Trends in Neurosciences* ISSN 0166-2236. [doi.org/10.1016/j.tins.2021.04.006](https://doi.org/10.1016/j.tins.2021.04.006).
21. Kohl C, Parviainen T & **Jones, SR** (2021) Neural Mechanisms Underlying Human Auditory Evoked Responses Revealed By Human Neocortical Neurosolver. *Brain Topogr.* <https://doi.org/10.1007/s10548-021-00838-0>
22. Powell M, Anso J, Gilron R, Provenza N, Allawala A, Silva D, Bijanki K, Oswalt D, Adkinson J, Pouratian N, Sheth S, Goodman W, **Jones SR**, Starr PA, Borton D (2020) NeuroDAC: An open-source arbitrary biosignal waveform generator. *J Neural Eng.* Nov 5:10.1088/1741-2552/abc7f0. doi: 10.1088/1741-2552/abc7f0. Epub ahead of print. PMID: 33152715; PMCID: PMC8096859.
23. Levitt J, Edhi MM, Thorpe RV, Leung JW, Michishita M, Koyama S, Yoshikawa S, Scarfo KA, Carayannopoulos AG, Gu W, Srivastava KH, Clark BA, Rosana Esteller R, Borton DA, **Jones SR**, Saab CY (2020) Pain phenotypes classified by machine learning using electroencephalography features. *NeuroImage*, Volume 223, 117256. ISSN 1053-8119. [doi.org/10.1016/j.neuroimage.2020.117256](https://doi.org/10.1016/j.neuroimage.2020.117256).  
\*\* Senior author contribution on computational methods
24. Eaton E, Swearingen HR, Zand Vakili A, **Jones SR**, Greenberg BD (2020) A Brief Report on an 8-Week Course of Mindfulness-based Care for Chronic Pain in the Treatment of Veterans With Back Pain. *Medical Care*: September 2020 - Volume 58 - Issue - p S94-S100. doi: 10.1097/MLR.0000000000001377
25. Sliva DD and **Jones SR** (2020) Is Alpha Asymmetry a Byproduct or Cause of Spatial Attention? New Evidence Alpha Neurofeedback Controls Measures of Spatial Attention. *Neuron*. Volume 105, Issue 3, Pages 404-406, ISSN 0896-6273. [doi.org/10.1016/j.neuron.2019.12.033](https://doi.org/10.1016/j.neuron.2019.12.033).
26. Sahin M, Sweeney JA, **Jones SR** (2020) Editorial: Biomarkers to Enable Therapeutics Development in Neurodevelopmental Disorders. *Frontiers in Integrative Neuroscience*, vol. 14, p. 57, 2020, doi: 10.3389/fnint.2020.616641.
27. Neymotin SA, Daniels DS, Caldwell B, McDougal RA, Carnevale NT, Jas M, Moore CI, Hines ML, Hämäläinen M, **Jones SR** (2020) Human Neocortical Neurosolver (HNN), a new software tool for interpreting the cellular and network origin of human MEG/EEG data. *eLife* 2020;9:e51214 DOI: 10.7554/eLife.51214 (<https://doi.org/10.7554/eLife.51214>)
28. Zandvakili A, Philip NS, **Jones SR**, Tyrka AR, Greenberg BD, Carpenter LL (2019) Use of Machine Learning in Predicting Clinical Response to Transcranial Magnetic Stimulation in comorbid Posttraumatic Stress Disorder and Major Depression: A Resting State Electroencephalography Study. *J. Affective Disorders*. 2019: 252:47-54. doi: 10.1016/j.jad.2019.03.077.

29. Sliva DD, Black CJ, Bowary P, Agrawal U, Santoyo JF, Philip N, Greenberg, BD, Moore CI, **Jones SR** (2018) A prospective study of the impact of transcranial alternating current stimulation on EEG correlates of somatosensory perception. *Front. Psych.* Nov 20;9:2117. doi: 10.3389/fpsyg.2018.02117
30. \*Sahin M, \***Jones SR**, \*Sweeney JA, Berry-Kravis E, Connors BW, Ewens, JB, Hartman AL, Levin AR, Potter WZ, Mamounas LA, on behalf of the Biomarker Workshop Faculty (2018) Discovering translational biomarkers in neurodevelopmental disorders. *Nature Reviews*, <https://doi.org/10.1038/d41573-018-00010-7>  
\*\* Co-First author
31. Shin H, Law R, Tsutsui S, Moore CI, **Jones SR** (2017) The rate of transient beta frequency events predicts behavior across tasks and species. *eLife* 6:e29086
32. Lee S, Asaad W, **Jones SR** (2017) Computational modeling to improve treatments for Essential Tremor. *Drug Discovery Today*. Volume 19, Pages 19-25.
33. Black CJ, Voights J, Agrawal U, Ladow M, Santoyo J, Moore CI, **Jones SR** (2017) Open Ephys. Electroencephalography: A modular, low-cost, open-source solution to human neural recordings. *J. Neural Engineering*. 14(3):035002
34. **Jones SR** (2016) When brain rhythms aren't 'rhythmic': implications for their mechanisms and meaning. *Curr. Opin. Neurobiol.*; 40:72-80
35. Sherman M, Lee S, Law R, Haegens S, Thorn C, Hamalainen M, Moore CI, **Jones SR** (2016) Neural mechanisms of transient neocortical beta rhythms: Converging evidence from humans, computational modeling, monkeys, and mice. *Proc. Natl. Acad. Sci.*; 113(33):E4885-94
36. Law R and **Jones SR** (2016) Membrane state diagrams make electrophysiological models simple. *bioRxiv* doi: <https://doi.org/10.1101/051839>
37. Hwang K, Ghuman AS, Dara S, Manoach DS, **Jones SR**, Luna B (2016) Frontal preparatory neural oscillations associated with cognitive control: A developmental study comparing young adults and adolescents. Adolescent immaturities in frontal preparatory neural oscillations associated with inhibitory control *Neuroimage*; 136:139-48.
38. Sacchet M, LaPlante R, Wan Q, Pritchett D, Lee A K-C, Hamalainen M, Moore CI, Kerr CE and **Jones SR**. (2015) Attention drives synchronization of alpha and beta rhythms between right inferior frontal and primary sensory cortex. *J. Neurosci.*; 35(5):2074-20
39. Ahlfors SP, **Jones SR**, Ahveninen J, Hamalainen MS, Bar M (2015) Direction of magnetoencephalography sources associated with feedback and feedforward contributions in a visual object recognition task. *Neurosci. Lett.*; 585:149-54
40. Hwang Kai, Ghuman Avniel S, Manoach Dara S, **Jones SR**, Luna B (2014) Cortical neurodynamics of inhibitory control. *J. Neurosci.*; 34(29):9551-61.
41. Lee S and **Jones SR** (2013) Distinguishing mechanisms of gamma frequency oscillations in human current source signals using a computational model of a laminar neocortical network. *Frontiers in Human Neurosci.*; Dec 18; 867:869
42. Kerr CE, Sacchet M, Lazar S, Moore CI, **Jones SR** (2013) Mindfulness starts with the body: somatosensory attention and top-down modulation of cortical alpha rhythms in mindfulness meditation. *Frontiers in Human Neurosci.*; Feb 13:7-12
43. Carlen M, Konstantinos M, Siegle JH, Cardin JA, Fatai F, Vierling-Claassen D, Ruhlmann C, **Jones SR\*\***, Deissertoth K, Sheng M, Moore CI, Tsai LH (2012) A critical role for NMDAR parvalbumin interneurons for gamma rhythm induction and cognitive function. *Molecular Psych.*; 17(5):537-48

**\*\* Senior author contribution on computational neural modeling component**

44. Wan Q, Kerr CE, Pritchett D, Hamalainen M, Moore CI, **Jones SR** (2011) Dynamics of dynamics within a single data acquisition session: variation in neocortical alpha oscillations in human MEG. *PLoS ONE*.;6(9):e24941.

45. Kerr CE<sup>\*\*</sup>, **Jones SR**<sup>\*\*</sup>, Wan Q, Pritchett DL, Wasserman RH, Wexler A, Villanueva JJ, Shaw JR, Kaptchuk TJ, Littenberg R, Hamalainen MS, Moore CI (2011) Effects of mindfulness meditation training on cortical dynamics: A MEG study of alpha rhythm modulation in SI. *Brain Research Bulletin*. 85(3-4):96-103.

**\*\* Joint first author contributions**

46. Vierling-Claassen D, Cardin JA, Moore CI, **Jones SR** (2010) Computational modeling of neocortical oscillations driven by cell-type selective optogenetic drive: resonant circuits controlled by low-threshold spiking and fast-spiking interneurons. *Front. Human Neurosci*. Nov 22, 4:198.

47. **Jones SR**, Kerr CE, Wan Q, Pritchett DL, Hamalainen MS, Moore CI (2010) Cued spatial attention drives representation-specific modulation of the alpha rhythm in primary somatosensory cortex. *Journal of Neurosci*. ;30(41):13760-5.

48. Ziegler DA, Pritchett DL, Hosseini-V. P, Corkin S, Hamalainen MS, Moore CI, **Jones SR** (2010) Transformations in oscillatory activity and evoked responses in primary somatosensory cortex in middle age: A combined comput. neur. modeling & MEG study. *Neuroimage*; 52(3):897-912.

49. **Jones SR**, Pritchett DL, Stufflebeam SM, Sikora M, Hamalainen MS, Moore CI (2009) Quantitative analysis and biophysically-realistic modeling of the MEG mu rhythm: rhythmogenesis and modulation of sensory evoked responses. *J. of Neurophys*; 102(6):3554-72.

50. Boas DA, **Jones SR**, Devor A, Huppert TJ, Dunn AK, Dale AM (2008) A vascular anatomical network model of the spatio-temporal response to brain activation. *Neuroimage*; 40(3):1116-29.

51. **Jones SR**, Pritchett DL, Stufflebeam SM, Hamalainen, M, Moore CI (2007) Neural correlates of tactile detection: A combined MEG and biophysically based computational modeling study. *Journal of Neurosci*.; 27(40):10751-10764.

52. **Jones SR**, Kopell N (2006) Local network parameters can affect inter-network phase lags in central pattern generators. *Journal of Math Biology*; 52(1):115-40.

53. Devor A, Ulbert I, Dunn AK, Narayanan SN, **Jones SR**, Andermann ML, Boas DA, Dale AM (2005) Coupling of the cortical hemodynamic response to cortical and thalamic neuronal activity. *Proc. Natl. Acad. Sci*. 2005;102(10):3822-7.

54. Pinto DJ, **Jones SR**, Kaper TJ, Kopell N (2003) Analysis of state-dependent transitions in frequency and long-distance coordination in a model oscillatory cortical circuit. *Journal of Computational Neurosci*.; 15(2):283-98.

55. Garabedian CE, **Jones SR**<sup>\*\*</sup>, Merzenich MM, Dale A, Moore CI (2003) Band-pass response properties of rat SI neurons. *Journal of Neurophysiol*.; 90(3):1379-91.

**\*\*First author contribution on computational neural modeling component**

56. **Jones SR**, Mulloney B, Kaper TJ, Kopell N (2003) Coordination of cellular pattern-generating circuits that control limb movements: the sources of stable differences in intersegmental phases. *Journal of Neurosci*.; 23(8):3457-68.

57. **Jones SR**, Pinto DJ, Kaper TJ, Kopell N (2000) Alpha-frequency rhythms desynchronize over long cortical distances: a modeling study. *Journal of Computational Neurosci*.; 9(3):271-91.



## Professional Educational Materials and Chapters in Books (reverse chronological)

1. Vierling-Claassen N and **Jones SR** (2016) "Neural Rhythms". Chapter in Computational Neuroscience Textbook: From Neurons to Cognition: Computational Neuroscience MIT Press; Editor: M. Arbib
2. **Jones SR** (2015) "The Puzzle of Brain Rhythms", contributed Path of Discovery Box, in Neuroscience: Exploring the Brain, 4<sup>th</sup> edition; MF. Bear, BW. Connors, & M. Paradiso
3. **Jones SR** (2015) "Local Field Potential: Relationship to Electroencephalography (EEG) and Magnetoencephalography (MEG)". Chapter in Encyclopedia of Computation Neuroscience Springer Reference; Editors: D. Jaeger and R. Jung. Springer-Verlag Berlin Heidelberg.
4. **Jones SR** (2011) "Biophysically principled computational neural modeling of magneto-/electroencephalography measured human brain oscillations". Chapter in Springer Neuromethods Textbook Series Neuronal Network Analysis; Editors: T. Fellin & M. Hallasa

## MAJOR SOFTWARE CONTRIBUTIONS

- |              |  |
|--------------|--|
| 2018-present | <b><i>Human Neocortical Neurosolver (HNN):</i></b> <i>An open-source software tool for circuit-level interpretation of MEG/EEG data.</i> HNN is a first-of-its-kind software tool for researcher to develop and test hypotheses on the cellular- and circuit-level origin of their data. HNN is distributed with a user-friendly GUI and Python interface ( <a href="https://hnn.brown.edu">https://hnn.brown.edu</a> ; <a href="https://github.com/jonescompneurolab/hnn-core">https://github.com/jonescompneurolab/hnn-core</a> ). |
| 2018-present | <b><i>Spectral Events Toolbox:</i></b> <i>A series of MATLAB &amp; Python functions that find and analyze transient high-power spectral events on a trial-by-trial basis.</i> Tools to quantify features of such events such as rate, duration, amplitude, frequency span are also provided. See <a href="https://github.com/jonescompneurolab/SpectralEvents">https://github.com/jonescompneurolab/SpectralEvents</a>   |

## COMPLETED RESEARCH GRANTS

### Completed Grants as Principal or Co-Principal Investigator

- |             |   |
|-------------|---|
| 2022 - 2023 | Zimmerman Innovator Award, Carney Institute for Brain Sciences<br>Role: PI<br>"Discovering novel biomarkers of aging & cognitive decline in large-scale open access human MEG data" |
| 2018 – 2023 | R01 NS108414   NINDS<br>Role: Co-Investigator. (PI: C. Saab, Cleveland Clinic)<br>"Spatiotemporal Coding in the Pain Circuit Along the Spine-Brain Continuum"                       |
| 2018 – 2022 | P20GM103645 COBRE Center for Central Nervous System Phase II<br>Role: Project Leader (PI: J. Sanes)<br>"The Causal Role of Neocortical Beta Events in Human Sensory Perception"     |
| 2020 - 2022 | NSF IIS-1912280<br>Role: Co-Investigator. (PI: T. Serre, Brown U.)<br>"CRCNS: US-France Research Proposal: Oscillatory processes for visual reasoning in deep neural networks"      |
| 2018 - 2019 | Medtronic Inc. - Brown Joint Research Project<br>Role: Co-PI (Co-PIs D. Borton and C. Saab)<br>"Physical and Computational Modeling of Sensory Relay"                               |

*Dr. Stephanie R. Jones, Curriculum Vitae*

- 2016 - 2019 NIBIB RO1 EB022889 & -02SI BRAIN Award in Theories, Models and Analysis  
Role: Contact PI (Co-PIs M. Hamalainen and M. Hines) “Human Neocortical Neurosolver”
- 2014 - 2019 NIMH RO1 MH106174 Collaborative Research in Computat. Neurosci. (CRCNS)  
Role: Contact PI (Co-PIs M. Hamalainen and A. Gramfort)  
“US-France Research: Revealing thalamocortical interactions in humans with MEG/EEG, intracranial recordings and computational neural modeling”
- 2015-2017 Providence VA Center for Excellence in Neurorestoration and Neurorehabilitation  
“Non-Invasive Approach to Alleviate Pain: Integrated tACS and Mindfulness”
- 2013-2016 Brown Inst. for Brain Sciences / Norman Prince Neurosci. Inst.: New Frontiers Fund  
“Effects of tACS in Tactile Perception and Acute Pain”
- 2016 NIH SBIR with Chin Chinglu Pharmaceutical Research  
“NMDA Receptor NR2D for the Treatment of IM”
- 2014-2015 Brown Univ. BioMed Dean’s Emerging Areas of New Science Award (DEANS)  
“DBS to Reduce Beta Rhythms in Parkinson’s disease Guided by Neural Modeling”
- 2011-2014 NSF Collaborative Research in Computational Neuroscience (CRCNS)  
“Contributions of thalamus and basal ganglia to neocortical beta oscillations”
- 2012-2013 Brown Inst. for Brain Sciences / Norman Prince Neuroscience Inst.: New Frontiers Fund  
“Targeting Deep Brain Stimulation to minimize cortical beta rhythms in PD”
- 2012-2013 Harvard Catalyst Boston Children’s Hospital Pilot Research Grant  
“Electrophysiological cortical abnormality in encephalopathy of prematurity”
- 2011-2012 Harvard Med. Sch., Scholars in Medicine Dr. Reid Fellowship  
“Making Beta Waves: Integrating Methods to Rescue Parkinsonian Brain Activity”
- 2008-2010 Harvard Medical School, Claflin Distinguished Scholar Award  
“Computational Modeling of Hemo-Neural Interactions Relevant to Epilepsy”
- 2005-2010 NIH K25 Mentored Career Award  
“Neurodynamics of Attention MEG, EEG and Modeling”

**INVITED KEYNOTE, SEMINAR & SYMPOSIUM SPEAKER (past 5 years)**

- 2025 **Invited Symposium Speaker** International Conference on Mathematical Neuroscience  
Barcelona, Spain (in person, June 2025)  
Organizer: Center for Mathematical Research Scientific Advisory Team
- Invited Seminar Speaker** BrainWorks Seminar, Wu Tsai Institute, Yale University  
New Haven, CT (in person, April, 2025)  
Organizer: K. Nobre
- Invited Seminar Speaker** National Center for Neuromodulation for Rehabilitation, MUSC  
(online, April 2025)  
Organizer: L. McTeague
- HNN Workshop**  
(online, Aug April 2025)  
Organizer: S.R. Jones
- Invited Symposium Speaker** Cognitive Neuroscience Meeting  
Boston, MA (in person, April 2025)  
Organizer: K. Hwuang, U Iowa
- Invited Seminar Speaker** University of San Diego, Neuroscience Graduate Program  
San Diego, CA (in person, March 2025)  
Organizer: R. Lozoya
- Invited Seminar Speaker** Global Research Initiative on Neurophysiology of Schizophrenia

(online, March 2025)  
Organizer: J. Pan, Broad Institute

**Invited Seminar Speaker** National Fragile X Consortium  
(online, Feb 2025)

Organizer: K. Huber, UT Southwestern

2024 **Invited Symposium Speaker** International Pharmacology-EEG Society  
Izmir, Turkey (online, Nov. 2024)

Organizer: Steven Leister, Abbvie Pharmaceuticals

**HNN Workshop** Society for Neuroscience Annual Meeting 2024  
Chicago, IL (in person, Oct 2024)

Organizer: S.R. Jones

**HNN Workshop** BIOMAG 2024  
Sydney, Australia (online, Aug 2024)

Organizer: S.R. Jones

**HNN Workshop** Association for the Scientific Study of Consciousness  
Tokyo, Japan (in person, July 2024)

Organizer: A. Dykstra

**HNN Workshop** NEURON summer Course at Brown University  
Providence, RI (in person, June 2024)

Organizer: R. McDougal; T. Carnevale

**Keynote Speaker** International Conference on Bioelectromagnetism  
Helsinki, Finland (in person, May 2024)

Organizer: R. Ilmoniemi

**HNN Workshop** (Online, May 2024)  
Organizer: S.R. Jones

**Invited Seminar** Emory University Sense and Salience Conference  
Atlanta, GA (in person, May 2024)

Organizer: R. Liu & B. Haider

**Invited Seminar** Broad Institute Stanley Center for Psychiatric Research  
Boston MA (in person, Feb 2024)

Organizer: J. Pan

**Invited Seminar** McGill University QLS/CAMBAM Seminar Series  
Montreal, Canada (online, Jan 2024)

Organizer: S. Krishna

2023 **HNN Workshop** North America MEG Meeting  
Washington DC (in person, Nov 2023)

Organizer: S.R. Jones

**HNN Workshop** Annual Society for Neuroscience Meeting  
Washington DC (in person, Nov 2023)

Organizer: S.R. Jones

**Invited Speaker** ICERM Workshop Mathematical Neuroscience  
Providence, RI (in person, Oct 2023)

Organizer: C. Curto

**Invited Speaker** Boston University Medical School Anatomy & Neurobiol. Seminar Series  
Boston, MA (in person, Oct 2023)

Organizer: M. Medalla

**Invited Speaker** Neurotechnology Summer Workshop Seminar Speaker  
Ben Gurion University, Ben Gurion, Israel (in person, Aug 2023)

Organizer: O. Shreiki

**Invited Speaker** University of Minnesota, NeuroPRSMH Seminar Series (online, May 2023)

Organizer: S. Sponheim

**Invited Speaker** MetaCell Webinar: Maximize Your Research with Cloud Workspaces (online, March 2023)

Organizer: M. Cantarelli

**Keynote Speaker** Max Planck Institute 10<sup>th</sup> Mind Brain Body Symposium Berlin, Germany (in person, March. 2023)

Organizer: A. Peterchev

**Invited Symposium Speaker** 5<sup>th</sup> International Brain Stimulation Conference Lisbon, Portugal (in person, Feb 2023)

Organizer: A. Babayan

2022 **Keynote Speaker** India EMBO Lecture Course: Noninvasive Brain Stimulation – Advances in Research and Clinical Practice

Gujarat, India (hybrid, Dec. 2022)

Organizer: N. Thirugnanasambandam

**Invited HNN Workshop Presentation** @PracticalM/EEG Toolbox Bouquet, Aix-en-Provence, France (online workshop, Dec. 2022)

Organizer: M. Chaumon

**Invited Speaker** Neuroscience Gateway Portal Workshop at Society for Neuroscience Meeting San Diego CA (online workshop, Nov, . 2022)

Organizer: A. Majumdar

**Keynote Speaker** Ann. Meeting Society for Psychophysiological Research, Vancouver, BC, Canada (in person, Oct. 2022)

Organizer: J. Wessel

**Invited HNN Workshop Presentation** BIOMAG 2022, University of Birmingham, Birmingham, UK (in person, Aug. 2022)

Organizer: O. Jensen

**Invited Speaker** University of Chicago Neuroscience Institute Chicago, IL (virtual, March. 2022)

Organizer: B. Doiron

**Invited Speaker** University of Miami Biomedical Engineering Miami, Florida (in person, Feb. 2022)

Organizer: A. Dykstra

2021 **Invited Speaker** Complutense University of Madrid Center for BioTech.

Madrid, Spain (in person)

Organizer: F. Maestu

**Invited Speaker & HNN Workshop** CuttingEEG: International Symp. for Cutting-Edge Methods for EEG, Aix-en-Provence, France (moved to online)

Organizer: M. Chaumon

**Invited Speaker** Bernstein Center for Computational Neuroscience Berlin, Germany (moved to online)

Organizers: J. Neumann and M. Brecht

**Invited Symposium Speaker** 20<sup>th</sup> World Congress of Psychophysiology Chengdu, China (moved to online)

Organizer: J. Schall and J. Riera-Diaz

**Invited Speaker** Transcontinental Computational Psychiatry London, UK (moved to online)

Organizer: Q. Huys, M. Browning, M. Paulus

**Invited Speaker** U. Minnesota NIBS Workshop  
Minneapolis, MN (moved to online)  
Organizer: A. Opitz and I Alekseichuk

**Invited Speaker** U. Iowa Neuroscience Institute  
Iowa City, IA (moved to online)  
Organizers: J. Wessel and K. Hwang

**Invited Speaker** NetPyNe Modelling Workshop  
Suny Downstate, NY (moved to online)  
Organizer: S. Dura-Bernal

**Invited Speaker** Brain Week RI Mindfulness Panel  
Providence, RI (moved to online)  
Organizer: B. Greenberg

**Invited Speaker** U. Utah Biomedical Engineering  
Salt Lake City, Utah (moved to online)  
Organizer: C. Cornelssen

**Invited Symposium Speaker** Cognitive Neurosci. Society Annual Meeting Online  
Organizer: J. Lefebvre

**Invited Panel Advisor Presentation** NIH BRAIN Initiative Transformative Non-Invasive  
Imaging Technology Workshop  
Online

Organizer: S. Wang

**Invited Speaker** NIH BRAIN Initiative SFN Connectome Toolmakers Public Social, Online  
Organizer: M. Olenick

**Invited Symposium Speaker** 7<sup>th</sup> International Conf. on NIBS,  
Baden Baden, Germany (moved to online)  
Organizer: G. Ruffini

2020 **Invited Speaker** Inst. of Cog, Neurosci, National Research U. Higher School of Economics  
Moscow, Russia (moved to online)  
Organizer: A. Ossadtch

**Keynote Speaker (Mid-Career Award Presentation)** BIOMAG 2020 Meeting of the  
International Society for Biomagnetism  
Birmingham, UK (moved to online)  
Organizer: O. Jensen

**Invited Speaker** Allen Institute Workshop: Toward Multipurpose Models of Cortical Circuits,  
Seattle, WA (moved to online)  
Organizers: A. Arkhipov, G. Einevoll

**Keynote Speaker** BrainSTIM 2020  
Helsinki Finland (moved to online)  
Organizers: R. Ilmoniemi and V. Clark

**Invited Speaker** University of Oregon Institute for Neuroscience  
Bend, OR (moved to online)  
Organizer: N. Swann

**Invited Speaker** NYC Neuromodulation Conference  
NY, NY (moved to online)  
Organizer: G. Ruffini

**Invited Speaker** European Inst. of Theoretical Neurosci. Workshop: Modeling Brain Signals  
Paris, France (in person)  
Organizers: A. Destexhe, G. Einevoll, V. Jirsa

- 2019 **Keynote Speaker** MEG North America  
Bethesda MD  
Organizer: A. Nugent  
**Invited Speaker** University of Connecticut, Brain Imaging Research Center  
Storrs, CT  
Organizer: F. Hoeft  
**Invited Speaker** University of Toronto, Krembil Institute  
Toronto CA  
Organizer: F. Skinner  
**Invited Speaker** Neuroscience Graduate Program Welcome Retreat, Brown Univ.  
Providence, RI  
Organizer: A. Hart  
**Invited Speaker** Carolina Non-Invasive Brain Stimulation Meeting  
Chapel Hill, NC  
Organizer: F. Frohlich  
**Invited Speaker** 7<sup>th</sup> Annual Science Factory  
Helsinki Finland  
Organizer: R. Ilmoniemi  
**Invited Speaker** Aalto University Brain Centre Seminar Series  
Helsinki, Finland  
Organizer: L. Parkkonen  
**Keynote Speaker** 2019 International BRAIN Twitter Conferences  
Online  
Organizer: A. Hulten  
**Invited Speaker** University Medical Center Hamburg-Eppendorf, Dept. of Neurophysiology  
Hamburg, Germany  
Organizer: A. Engel  
**Invited Speaker** University College London, Wellcome Center  
London, UK  
Organizer: G. Barnes, S. Besmann

## TEACHING

- 2022 - 2025 Co-Organizer and Instructor in Joint Brown University and Ben Gurion University  
Summer Workshop on Embodied Neurotechnologies
- 2019-present Mechanism and Meaning of Neural Dynamics (NEUR 1440), Brown University,  
Providence RI
- 2018 Faculty Leader and Instructor in Wyss - Brown Neuroengineering Workshop  
Summer 2018, Providence, RI
- 2015-2017 "Neural Dynamics: Theory and Modeling." Graduate Course.  
Dept. of Applied Mathematics (APMA 2821V), Brown University, Providence, RI
- 2012-2015 Co-Instructor in "Neural Dynamics". Undergraduate Course (Instructor: Moore)  
Dept. of Neuroscience (NEURO 1440) Brown University, Providence, RI
- 2008 Lecturer in Neuroscience Graduate Course (Neural Dynamics)  
Brain and Cognitive Science Dept, MIT, Cambridge, MA
- 1998-1999 Part-time Faculty Instructor (Multivariate Calculus)  
Dept. of Mathematics, Boston College, Chestnut Hill, MA

## *Dr. Stephanie R. Jones, Curriculum Vitae*

1995-1997	Summer-Term Faculty Instructor (Algebra, Pre-Calculus, Calculus) AHANA Student Programs Mathematics, Boston College, Chestnut Hill, MA
1996-1998	Teaching Fellow (Differential Equations) Dept. of Mathematics, Boston University, Boston, MA
1993-1995	Teaching Fellow (Calculus, Multivariate Calculus) Dept. of Mathematics, Boston College, Chestnut Hill, MA

## **MENTORSHIP**

### **Current Mentees**

Junior Faculty	Matthew Nassar, Assistant Professor Neuroscience, Brown University Julio Hernandez Pavlon, Assistant Professor Psychological Sci, Kansas State Univ.
Clinical Faculty	Brian Kavanaugh, Assistant Professor Psychiatry & Human Behavior, Bradley Hosp Laura Korthauer, Assistant Professor Psychiatry & Human Behavior, RIH
Post-doctoral	Darcy Diesburg David Zhou Katharina Duecker Carolina Pujol Fernandez Danielle Sliva
Professional Staff	Dylan Daniels (research science software engineer) Austin Soplatá (research science data scientist)
Graduate	Nicholas Tolley (PhD candidate Brown Neuroscience) Danielle Sliva (PhD candidate Brown Neuroscience) Chloe Zimmerman (MD/PhD candidate Neuroscience & Brown Medical Student) Adrianna Hohil (MS candidate in Biotechnology) Jacob Tajchman (MS candidate in Biomedical Engineering)
Undergrad.	Anel Zhussubali (Cognitive Neuroscience) Phillip Meader Yetter (Neuroscience)
Research Technicians	Joyce Gao (Brown B.S. Cognitive Neuroscience ('24))

### **Past Students (mentorship location; next position)**

Post-doctoral	Mainak Jas (MGH, Co-Mentor with Matti Hamalainen; Research Scientist, MGH) Carmen Khol, PhD (Brown Neuroscience; Industry Data Scientist London) Blake Caldwell, PhD (Brown Neuroscience; Columbia Medical School) Robert Law, PhD (Brown Neuroscience; Research Scientist Broad Institute) Shane Lee, PhD (Brown Neuroscience; Research Fellow, RIH) Nathan Vierling-Claassen (MGH/Brown Neuroscience; Industry Data Science) Paul Bowary (Brown Neuroscience; Neuropsych. Resident, Brown Med. Sch.)
Graduate & Co-Mentored Graduate	Christopher Black (Brown Biomedical Engineering; Post-doc, UCL) Prannath Moolchand (Brown Neuroscience; Post-doc Stanford) Hyeyoung Shin (Brown Neuroscience; Post-doc Berkley) Elvira Pirondini (EPFL; Grant Sponsored Visiting Graduate Student) Dominique Pritchett (MIT / Brown Neurosci.; Faculty Howard University)

David Ziegler (MIT Brain and Cog Sci.; Post-doc UCSD)  
Ryan Thorpe (Brown Biomedical Engineering Master's; PhD cand. Neuroscience)

Undergrad. Rachel Thomson (Neuroscience)  
Nova Chen (Neuroscience)  
Julia Ostrowski (Brown Computational Neuroscience: Honors Thesis Advisor)  
Juan Santoyo (Brown Neuroscience: Research Project Advisor)  
Cooper Penner (Brown Neuroscience: Capstone Thesis Advisor; ENP, Paris)  
Shawn Tsutsui (Brown Applied Math: Honors Thesis Advisor; UVA Med. School)  
Carolina Santiago (Brown Neuroscience: Honors Thesis Advisor; Neuroelectronics)  
Uday Agrawal (Brown Applied Math: Honors Thesis Advisor; Harvard Med. Sch.)  
Maxwell Sherman (Brown Applied Math: Honors Advisor; Park Lab, Harvard)  
Roan LaPlante (Brown Computer Science; MGH Technician)  
Nikolas Baya (Brown Applied Math: Summer UTRA Research; Class of 2018)  
Nikolai Rogalinski (Neuroscience)  
Gnaneswari (Esha) Karayi (Contemplative Studies)

Technicians Qian Wan (MGH/MIT; Graduate Student Harvard)  
Matthew Sacchet (MGH/MIT; Graduate Student Stanford)  
Elizabeth Kaplan (Brown Neuroscience: Graduate Student UCSD)

## **Graduate Student Advisory Committees (since 2015)**

### **Graduate Students Dissertation Committee at Brown University**

Nicole Dusang (Brown Electrical and Computer Engineer, expected 2023)  
Aneri Soni (Brown Neuroscience, PhD expected 2023)  
Eric Klein (Brown Neuroscience, PhD expected 2023)  
Ki-Soo Jeung (Brown MME, PhD expected 2023)  
Seth Akers-Campbell (Brown Neuroscience, PhD 2022)  
James Wilmott (Brown CLPS, PhD 2021)  
Valerie Estela (Brown Neuroscience, PhD 2020)  
Heysol Bermudez Cabrera (Brown Neuroscience NIH-GPP, PhD 2018)  
Radu Darie (Brown BME, PhD 2018)  
Brent Cross (Brown BME, MA 2015)

### **Graduate Students Dissertation Committee Outside of Brown University**

Frank Mazza (Univ. of Toronto, Department of Physiology, PhD 2024; Advisor; Etay Hay)  
Josep-Maria Balaguer Serra (Univ. of Pittsburg, Bioengin., PhD 2024; Advisor: Marco Capogrosso)  
Solveig Naess Univ. of Oslo, Norway, Math. & Natural Science, PhD 2021; Advisor: Gaute Einevoll  
Alexandros Gelastopoulos Boston University, Dept. of Math., PhD 2019; Advisor: Nancy Kopell

### **Other Mentorship**

Google Summer of Code Mentor (Summer 2022 - 2025)  
Leadership Alliance and BP-Endure Program Advisor (Summers 2019-present)  
Brown UTRA Advisor (Summers 2013-present)

## **PROFESSIONAL SOCIETIES**

1997-present Society of Neuroscience  
2014-present Organization of Computational Neuroscience

*Date Prepared: May 2025*