

## I. Identifying Data

Name Jessica M. Ross, Ph.D.  
 Current Position Postdoctoral Research Fellow  
 Current Affiliations Veterans Affairs Palo Alto Healthcare System, Stanford University School of Medicine  
 Contact/website jross4@stanford.edu / jessicamarieross.com

## II. Education History

### *Fellowship Training*

- 2021- Sierra Pacific Mental Illness Research Education and Clinical Centers (MIRECC), Veterans Affairs Palo Alto Healthcare System, Palo Alto, CA
- 2021- Dept of Psychiatry & Behavioral Sciences, Stanford University School of Medicine, Palo Alto, CA
- 2018-21 Harvard Medical School, Berenson-Allen Center for Noninvasive Brain Stimulation, Beth Israel Deaconess Medical Center, Boston, MA

### *Colleges and Universities Attended*

- 2018 Ph.D. Cognitive and Information Sciences, University of California, Merced
- 2011 A.S. Biology (with honors), Sacramento City College
- 2011 A.A. Psychology (with honors), Sacramento City College
- 2008 B.A. Music, University of California, Davis
- 2008 B.A. Italian Studies, University of California, Davis

### *Additional Training*

- 2018 Intensive Course in Transcranial Magnetic Brain Stimulation, Harvard Medical School, Boston, MA
- 2018 Kavli Summer Institute in Cognitive Neuroscience, Tahoe, CA
- 2017 ERP Boot Camp, Center for Mind and Brain, UC Davis
- 2017 Swartz Center for Computational Neuroscience, UC San Diego (Scott Makeig and John Iversen)
- 2016 UC Retreat Workshop, Research in Music Experience and Communication, Marconi, CA
- 2016 Kavli Summer Institute, Cognitive Neuroscience, UC Santa Barbara
- 2016 Swartz Center for Computational Neuroscience, UC San Diego (Scott Makeig and John Iversen)
- 2015 UC MERCI Symposium/Workshop on Research on Music Experience and Communication, UCLA
- 2015 Transcranial Magnetic Stimulation (TMS) Methods and Practice, Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles
- 2015 Generalized Linear Model Workshop, UC Merced
- 2014 Advanced Training Institute on Non-Linear Methods for Psychological Science, American Psychological Association, University of Cincinnati, Ohio
- 2014 Dynamics of Music and Language Summer School, UC Merced Center for Human Adaptive Systems and Environments (CHASE)
- 2012 Auditory Neuroscience (Graduate Coursework), UC Davis Extension
- 2011 Cognitive Neuroscience and Group Study (Graduate Coursework), UC Davis Extension
- 2008 Summer Abroad Folk Music Program in Ljubljana, Slovenia
- 2006 Spring Quarter Abroad Language and Culture Program in Syracuse, Sicily

## III. Publications

*Research Articles* (19 published/11 first author, 4 in review or revisions)

1. **Ross, J.M.**, Santarnecchi, E., Lian, S.L., Fong, T.G., Touroutoglou, A., Cavallari, M., Trivison, T.G., Marcantonio, E.R., Libermann, T.A., Schmitt, E., Inouye, S.K.\*, Shafi, M.M.\*, Pascual-Leone, A.\* (2022). Neurophysiologic predictors of individual risk for post-operative delirium after elective surgery. *Journal of the American Geriatrics Society*, 1-10.
2. Parmigiani, S., **Ross, J.**, Cline, C., Minasi, C., Gogulski, J. Keller, C.J. (2022). Reliability and validity of TMS-EEG biomarkers. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
3. Gogulski, J., **Ross, J.M.**, Talbot, A., Cline, C., Donati, F.L., Munot, S., Kim, N., Gibbs, C., Bastin, N., Yang, J., Minasi, C., Sarkar, M., Truong, J., Keller, C.J. (2022). Personalized rTMS for depression: a review. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.

4. **Ross, J.M.**, Sarkar, M., Keller, C.J. (2022). Experimental suppression of transcranial magnetic stimulation-electroencephalography sensory potentials. *Human Brain Mapping*, 1-3.
5. **Ross, J.M.**, Ozdemir, R.A., Lian, S.J., Fried, P.J., Schmitt, E.M., Inouye, S.K., Pascual-Leone, A., Shafi, M.M. (2022). A structured ICA-based process for removing auditory-evoked potentials. *Scientific Reports*, 12, 1391.
6. Pabst, A., Comstock, D.C., Mede, B., Proksch, S., **Ross, J.M.**, Balasubramaniam, R. (2022). A systematic review and meta-analysis of the efficacy of intermittent theta burst stimulation (iTBS) on cognitive enhancement. *Neuroscience and Biobehavioral Reviews*, 135, 104587.
7. **Ross, J.M.**, Balasubramaniam, R. (2022). Time perception for musical rhythms: sensorimotor perspectives on entrainment, simulation and prediction. *Frontiers in Integrative Neuroscience*, 16:916220.
8. **Ross, J.M.**, Comstock, D., Iversen, J.R., Makeig, S., Balasubramaniam, R. (2022). Cortical mu rhythms during action and passive music listening. *Journal of Neurophysiology*, 127, 213-224.
9. Comstock, D., **Ross, J.**, Balasubramaniam, R. (2021). Modality-specific frequency band activity during neural entrainment to auditory and visual rhythms. *European Journal of Neuroscience*, 54(2), 4649-4669.
10. Gogulski, J., Cline, C.C., **Ross, J.M.**, Truong, J., Sarkar, M., Parmigiani, S., Donati, F., Keller, C.J. (Submitted). Mapping cortical excitability in the human dorsolateral prefrontal cortex.
11. Carey, S., **Ross, J.M.**, Balasubramaniam, R. (In review) The effects of auditory and tactile noise on the control of upright posture.
12. **Ross, J.M.\***, Proksch, S.\*, Iversen, J.R., Balasubramaniam, R. (In revision). Left hemisphere dominance in the dorsal auditory stream for musical beat phase timing perception.
13. **Ross, J.M.**, Iversen, J.R., Balasubramaniam, R. (In revision). Dorsal premotor contributions to auditory rhythm perception: Causal transcranial magnetic stimulation studies of interval, tempo, and phase. bioRxiv 368597 [Preprint]. July 13, 2018. Available from: <https://doi.org/10.1101/368597>
14. Nguyen, H.M., Aravindakshan, A., **Ross, J.M.**, Disbrow, E.A. (2020). Time course of cognitive training in Parkinson disease. *NeuroRehabilitation*, 46, 311-320.
15. **Ross, J.M.**, Iversen, J.R., Balasubramaniam, R. (2018). The role of posterior parietal cortex in beat-based timing perception: A continuous theta-burst stimulation study. *Journal of Cognitive Neuroscience*, 30(5), 634-643.
16. **Ross, J.M.**, Iversen, J.R., Balasubramaniam, R. (2016). Motor simulation theories of musical beat perception. *Neurocase* 22(6).
17. Ventura, M.I., Barnes, D.E., **Ross, J.M.**, Lanni, K.E., Sigvardt, K.A., Disbrow, E.A (2016). A pilot study to evaluate multi-dimensional effects of dance for people with Parkinson's disease. *Contemporary Clinical Trials*, 51, 50-55.
18. **Ross, J.M.**, Will, O.J., McGann, Z., Balasubramaniam, R. (2016). Auditory white noise reduces age-related fluctuations in balance. *Neuroscience Letters*, 630, 216-221.
19. **Ross, J.M.**, Warlaumont, A.S., Abney, D.H., Rigoli, L.M., Balasubramaniam, R. (2015). Influence of musical groove on postural sway. *Journal of Experimental Psychology: Human Perception and Performance*, 42(3), 308-19.
20. **Ross, J.M.**, Balasubramaniam, R. (2015). Auditory white noise reduces postural fluctuations even in the absence of vision. *Experimental Brain Research*, 233(8), 2357-63.
21. **Ross, J.M.**, Balasubramaniam, R. (2014). Physical and neural entrainment to rhythm: human sensorimotor coordination across tasks and effector systems. *Frontiers in Human Neuroscience*, 8:576.
22. Abney, D.H., Warlaumont, A.S., Haussman, A., **Ross, J.M.**, Wallot, S. (2014). Using non-linear methods to quantify changes in infant limb movements and vocalizations. *Frontiers in Psychology*, 5:771.
23. Lanni, K.E., **Ross, J.M.**, Higginson, C.I., Dressler, E.M., Sigvardt, K.A., Zhang, L., Malhado-Chang, N., Disbrow, E.A. (2014). Perceived and performance-based executive dysfunction in Parkinson's disease. *Journal of Clinical and Experimental Neuropsychology*, 36(4), 342-255.

Research Articles in Preparation (1/1 first author)

24. **Ross, J.M.**, Cline, C., Sarkar, M., Truong, J., Keller, C.J. (In prep). Neural effects of TMS trains on the human prefrontal cortex.

Dissertation

1. **Ross, J.M.** (2018). Sound Guides Action and Action Scaffolds Sound Perception. *UC Merced*. ProQuest ID: Ross\_ucmerced\_1660D\_10403. Merritt ID: ark:/13030/m5t201nf.

Book Chapters (1 total, all authors contributed equally)

1. Ashburn, S.M., Abugaber, D., Antony, J.W., Bennion, K.A., Bridwell, D., Cardenas-Iniguez, C., Doss, M., Fernández, L., Huijsmans, I., Krisst, L., Lapate, R., Layher, E., Leong, J., Li, Y., Marquez, F., Munoz-Rubke, F., Musz, E., Patterson, T.K., Powers, J.P., Proklova, D., Rapuano, K.M., Robinson, C.S.H., **Ross, J.M.**, Samaha, J., Sazma, M., Stewart, A.X., Stickel, A., Stolk, A., Vilgis, V., Zirnstein, M. (2020). Toward a socially responsible, transparent, and reproducible cognitive neuroscience. In M. Gazzaniga & R. Mangun (Eds.), *The Cognitive Neurosciences VI*. Cambridge, MA: MIT Press.

Oral Presentations (9)

1. Gogulski, J., Cline, C.C., **Ross, J.M.**, Parmigiani, S., Truong, J.T., Sarkar, M., Donati, F., Vijaya, D., Keller, C.J. (2022). Using TMS-EEG to probe fronto-parietal connectivity of individual subjects. 2022 Neuroscience Meeting Planner. San Diego, CA, USA.
2. Ross, J. (2022). Sensory neuroscience for TMS-EEG. Symposium for Aalto-Stanford Pilot Project. Aalto University, Helsinki, Finland.
3. Proksch, S., **Ross, J.M.**, Comstock, D. C., Backer, K.C., Iversen, J. R., Balasubramaniam, R. (2022). Motor contributions to rhythm perception: a TMS-EEG Study. Meeting of the Society for Music Perception and Cognition. Portland, OR, USA.
4. **Ross, J.M.** (2021). Multisensory and sensorimotor neuroscience, and clinical applications. Frontiers of Science Institute, University of Northern Colorado, Greeley, Colorado, USA.
5. **Ross, J. M.**, Iversen, J. R., Makeig, S., Balasubramaniam, R. (2019). Covert motor activity and auditory rhythm perception. New England Sequencing and Timing (NEST), Storrs, Connecticut.
6. **Ross, J.**, Iversen, J., Balasubramaniam, R. (2017). The role of dorsal premotor cortex in auditory timing: A continuous theta-burst stimulation study. Meeting of the Society for Music Perception and Cognition, San Diego, California.
7. Balasubramaniam, R., **Ross, J. M.** (2016). Human postural entrainment to the auditory environment. The Guy Van Orden UConn Workshop on Cognition and Dynamics, XI, Storrs, Connecticut.
8. **Ross, J.M.**, Warlaumont, A.S., Rigoli, L., Balasubramaniam, R. (2015). The influence of musical groove on balance control. Meeting of the Society for Music Perception and Cognition, Nashville, Tennessee.
9. **Ross, J.M.**, Warlaumont, A.S., Rigoli, L., Balasubramaniam, R. (2014). Using auditory noise to reduce postural sway in standing adults. Auditory Perception, Cognition, and Action Meeting, Long Beach, California.

Posters (~20)

1. Sarkar, M., **Ross, J.M.**, Cline, C.C., Keller, C.J. (2023). Investigating effects of auditory salience on TMS-EEG artifact and local cortical excitability. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
2. **Ross, J.M.**, Sarkar, M., Keller, C.J. (2021). Experimental suppression of TMS-EEG sensory potentials requires an optimal combination of techniques due to the multisensory experience of TMS. 4th International Brain Stimulation Conference, Charleston, South Carolina, USA.
3. Sarkar, M., **Ross, J.M.**, Keller, C.J. (2021). Minimizing discomfort from TMS through experimental optimization of sensory suppression protocols. 4th International Brain Stimulation Conference, Charleston, South Carolina, USA.
4. Buss, S.S., Passera, B., **Ross, J.**, Hagan, B., Press, D., Shafi, M.M. (2021). TMS-EEG as a measure of cortical hyperexcitability in motor and parietal cortex in Alzheimer's disease: a pilot study. Alzheimer's Association International Conference, Amsterdam, Netherlands and Online.
5. Passera, B., Buss, S.S., **Ross, J.M.**, Hagan, B., Press, D., Shafi, M.M (2021). TMS-EEG as a measure of cortical hyperexcitability in motor and parietal cortex in Alzheimer's disease: a pilot study. 4th International Brain

Stimulation Conference, Charleston, South Carolina, USA.

6. **Ross, J.**, Proksch, S., Iversen, J. R., Balasubramaniam, R. (2019). Hemispheric differences in the role of the parietal cortex in auditory beat perception. Meeting of the Society for Music Perception and Cognition, New York City, N.Y.
7. Proksch, S., **Ross, J. M.**, Balasubramaniam, R. (2019). Hemispheric differences in parietal contributions to auditory beat perception. 2019 Spring School Language and Music in Cognition: Integrated Approaches to Cognitive Systems. Cologne, Germany.
8. **Ross, J.**, Iversen, J. R., Balasubramaniam, R. (2018). Dorsal premotor contributions to auditory timing: Causal transcranial magnetic stimulation studies of interval, tempo, and phase. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience.
9. **Ross, J.**, Iversen, J., Balasubramaniam, R. (2017). The role of dorsal premotor cortex in auditory timing: A continuous theta-burst stimulation study. Meeting of the Society for Music Perception and Cognition, San Diego, CA.
10. **Ross, J.**, Iversen, J., Balasubramaniam, R. (2017). Mapping out cortical contributions to auditory timing: A causal transcranial magnetic stimulation study of interval and beat-based timing perception. 2017 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience. Online.
11. **Ross, J.**, Iversen, J., Balasubramaniam, R. (2017). Dorsal and ventral premotor contributions to auditory timing: A continuous theta-burst stimulation study. International Multisensory Research Forum, Nashville, TN.
12. **Ross, J.**, Iversen, J., Balasubramaniam, R. (2017). The role of posterior parietal cortex in beat-based timing perception: a continuous theta-burst stimulation study. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
13. **Ross, J.**, Iversen, J., Makeig, S., Balasubramaniam, R. (2016). An EEG examination of neural entrainment and action simulation during rhythm perception. 14<sup>th</sup> International Conference for Music Perception and Cognition, San Francisco, CA.
14. **Ross, J.M.**, Warlaumont, A.S., Rigoli, L., Balasubramaniam, R. (2015). Influence of high and low groove music on postural sway dynamics. 37<sup>th</sup> Annual Meeting of the Cognitive Science Society, Pasadena, CA.
15. Ventura, M.I., **Ross, J.M.**, Lanni, K.E., Sigvardt, K.A., Disbrow, E.A. (2015). Improving cognitive functioning and quality of life through dance for PD: A pilot intervention trial. 19<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders. San Diego, CA.
16. **Ross, J.M.**, Balasubramaniam, R. (2015). Contribution of auditory feedback to postural stability. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
17. Ventura, M.I., **Ross, J.M.**, Lanni, K.E., Sigvardt, K.A., Disbrow, E.A. (2015). Motor and cognitive benefits of dance for people with Parkinson's disease. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
18. **Ross, J.M.**, Warlaumont, A.S., Rigoli, L., Balasubramaniam, R. (2014). Influence of high and low groove music on postural sway dynamics. Advanced Training Institute on Non-Linear Methods for Psychological Science, American Psychological Association, University of Cincinnati, Ohio.
19. Dressler, E.M., Aravindakshan, A., **Ross, J.**, Sigvardt, K., Zhang, L., Malhado-Chang, Disbrow, E.A. (2013). Impaired motor preparation under conditions of response uncertainty in Parkinson's disease. Program No. 431.05/M18. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience.
20. Lanni, K.E., **Ross, J.**, Higginson, C.I., Dressler, E.M., Sigvardt, K.A., Zhang, L., Malhado-Chang, N., Disbrow, E.A. (2013). Measuring perceived and performance-based executive dysfunction in Parkinson's disease. Program No. 431.04/M17. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience.
21. **Ross, J.**, Dressler, E., Sigvardt, K.A., Aravindakshan, A., Yund, E.W., Woods, D., Disbrow, E. (2012). Cognitive neurorehabilitation of movement initiation in Parkinson's disease. Program No. 802.19. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience.

#### IV. Grants and Funding

##### Current

2021-23 Advanced Fellowship Program in Mental Illness Research and Treatment, Sierra Pacific Mental Illness Research Education and Clinical Centers (MIRECC), VA Palo Alto Health Care System

##### Submitted

2023-28 Letter of Intent for CDA-2, Fall 2022, Role: PI

Funder: Clinical Science R&D Service (CSR&D), Dept of Veterans Affairs

*Sensory Entrained Transcranial Magnetic Brain Stimulation (seTMS) for Major Depression*

2023-28 1K01MH132898-01, Role: PI

Funder: NIMH

*Sensory Entrained Transcranial Magnetic Brain Stimulation (seTMS)*

2023-28 Letter of Intent for CDA-2, Spring 2022, Role: PI

Funder: Clinical Science R&D Service (CSR&D), Dept of Veterans Affairs

*Sensory Entrained Transcranial Magnetic Brain Stimulation (seTMS) for Major Depression*

2021 Travel Fellowship for the Society of Biological Psychiatry (SOBP) annual meeting

2021-22 UC President's Postdoctoral Fellowship Program, University of California

*Dynamic Network Mapping of Prediction in the Brain: Study of Motor Contributions to Auditory Perception Using Scalp Electroencephalography (EEG)*

2018-21 1F32MH118722-01, Role: PI

Funder: NIMH

*Functional Connectivity of Prediction for Musical Rhythm Perception: A Transcranial Magnetic Brain Stimulation and Electroencephalography Mixed Methods Study of Neural Dynamics*

2019-20 UC President's Postdoctoral Fellowship Program, University of California

*Dynamic Network Mapping of Prediction in the Brain: EEG and TMS Studies of Auditory-Motor Interaction*

2019-20 Applied Technology Grant, Role: Consultant

Funder: The Michael J. Fox Foundation

*Electroskip PD: Adaptive rhythmic auditory stimulation to re-synchronize gait in PD*

2018-19 Academic Pathways: An Initiative for Academic Diversity, Vanderbilt University

2018-19 NSF Proposal Number: 1810639, Role: PI

Funder: SBE Postdoctoral Research Fellowship, NSF

*Tracking time-sensitive measures of auditory-motor prediction across the brain before and after focal brain stimulation*

2015-17 Applicant ID: 1000186829

Funder: Graduate Research Fellowship Program (GRFP), NSF

*Rhythmic entrainment to music and language*

2014-16 Applicant ID: 1000186829

Funder: Graduate Research Fellowship Program (GRFP), NSF

*Elements of rhythmicity in music and language*

##### Completed

2020 Manufacturing Grant (\$34,000), Role: Consultant

Funder: Fuzehub, New York State, *Electroskip*

2020 Commercialization Competition Winner (\$50,000), Role: Consultant

Funder: Fuzehub, New York State, *Electroskip*

2019 Innovation Award (\$20,000), Role: Consultant

Funder: Fuzehub, New York State, *Electroskip*

2017-18 Graduate Dean's Dissertation Year Fellowship

Funder: University of California, Merced

2017 Scholarship for the 2017 UC Davis ERP Bootcamp

Funder: University of California, Davis

2017 Student Exchange, Swartz Center for Computational Neuroscience, UC San Diego Funder: UC Music Experience Research Community Initiative (UC MERCI)

2016 Student Exchange, Swartz Center for Computational Neuroscience, UC San Diego Funder: UC Music Experience Research Community Initiative (UC MERCI)

2015 Graduate Student Fellowship

Funder: Mark S. Aldenderfer, Dean of the School of Social Sciences, Humanities, and Arts, UC Merced

- 2015 Graduate Dean's Fellowship  
Funder: Marjorie Zatz, Vice Provost and Dean of Graduate Education, UC Merced
- 2014 Graduate Fellowship Incentive Program Award  
Funder: Graduate Division, UC Merced
- 2014 Travel grant, Advanced Training Institute on Non-Linear Methods for Psychological Science  
Funder: American Psychological Association

## V. Awards and Honors

- 2016-17 GRAD-EXCEL Peer Mentorship Program Award, Graduate Division, UC Merced
- 2015 UC Merced GradSLAM Finalist
- 2015 National Science Foundation Graduate Research Fellowship (NSF GRFP) Honorable Mention
- 2010-11 International Honor Society Phi Theta Kappa member
- 2009 Special Thanks for Achieving Results (STAR) award, United States Geological Survey, Biological Resources Division
- 10/09 Expert of the month, Allexperts.com

## VI. Teaching Experience

### *Coursework*

- 2021 Instructor, Frontiers of Science Institute, University of Northern Colorado
- 2015-16 Assistant, COGS 144: Animal Cognition, UC Merced (UG: enrollment ~76)  
Assistant, MGMT 158: Service Innovation, UC Merced (UG: enrollment ~45)
- 2014-15 Assistant, COGS 140: Perception and Action, UC Merced (UG: enrollment ~188)
- 2013-14 Assistant, COGS 130: Cognitive Neuroscience, UC Merced (UG: enrollment ~169)  
Assistant, COGS 151: Speech Processing, UC Merced (UG: enrollment ~ 32)
- 2011-12 Resident Scientist, David Lubin Elementary School, Sacramento, CA

### *Special Pedagogical Activities*

- 2016 Human motion capture systems training for COGS 180: Gesture, UC Merced
- 2015 TMS workshop for BIOE 113: Bioinstrumentation, UC Merced
- 2008 Certification: California Basic Educational Skills Test (CBEST), Permanent passing status

### *Mentorship*

#### Psychiatry residents (TMS-EEG training)

Francesco Luciano Donati MD  
Juha Gogulski MD PhD

#### Graduate students (GRAD-EXCEL Peer Mentorship Program, UC Merced)

Adolfo Ramirez  
Daniel Schloesser  
Karie Moorman  
Timothy Meyer

#### Research Assistants

Manjima Sarkar  
Jade Truong  
Brenna Hagan  
Courtney Hoblock  
Sofia Kirkman  
Shu Jing Lian

#### Undergraduate Research

##### Assistants (not exhaustive)

Naryeong Kim  
Alexandria Pabst  
Lillian Rigoli  
Hoang Nguyen  
Christine Vu  
Amanda Pandey  
Orion Will  
Zach McGann  
Saraching Chao  
Jacob Gonzales  
Alison Crosby  
Timothy Schwartz  
Donnoban Orozco  
Harrison Tom  
May Sermonia

#### High School Students

Lilian Chen  
Medha Pulluru  
Lahari Vallamkonda  
Esha Venkat

## VII. Media and Impact

- *Preliminary Research Finds That EEG and TMS-EEG Measures May Identify Individuals At Risk of Post-Operative Delirium*, Hebrew SeniorLife, October 25, 2022.
- *Faces of Manufacturing: Electroskip*, Fuzehub, New York State, February 23, 2022.
- *SAGES News*, Successful Aging After Elective Surgery (SAGES) Study Newsletter, July 2, 2020.
- *Meta-analysis of neuroimaging during passive music listening: Motor network contributions to timing perception*, Timing Research Forum Blog, March 9, 2019.
- *To Hear the Beat, Your Brain May Think About Moving to it: A Brain Region Linked to Movement is Integral to Recognizing Rhythms*, Science News: Magazine for the Society for Science and the Public, February 16, 2018.
- Elsevier AudioSlides: Ross, J.M., Will, O.J., McGann, Z., & Balasubramaniam, R. (2016). Auditory white noise reduces age-related fluctuations in balance. *Neurosci. Lett.* 630, 216-221.

## VIII. Volunteer Work

- Reviewer Numerous, including Journal of Cognitive Neuroscience, Gait & Posture, Experimental Brain Research, Human Movement Science, Music Perception, PLOS ONE, Attention, Perception, & Psychophysics, Society for Music Perception & Cognition research conference
- Reviewer Perception, Action, and Cognition program at NSF
- 2015-18 Graduate Student Representative, Advisory Committee, UC Merced Transportation and Parking Services
- 2016 Experienced Teacher's Assistant Informational Panel, Graduate Student TA Orientation, Center for Engaged Teaching and Learning (CETL), UC Merced
- 2016 Public outreach, Mercy Hospital 5K Stroke Awareness Run
- 2009-18 Expert, Entomology Question and Answer Service, Allexperts.com
- 2015 37<sup>th</sup> Annual Meeting of the Cognitive Science Society, Pasadena, CA
- 2014 Cognitive Science Student Association Meeting graduate applications, UC Merced
- 2014 Days & Nights Festival, Philip Glass Center for Arts, Science, and the Environment, Big Sur, CA
- 2014 "Child Triumphs and Troubles: Language and Learning in the Early Years" Professional Development and Research Lab Tours, UC Merced
- 2011-12 Brain Awareness Week (K-6 brain education), Center for Neuroscience, UC Davis
- 2004-08 Founding member of the One World Children's Fund, Davis Branch, Davis, CA

### *Professional Affiliations*

Cognitive Neuroscience Society, Society for Music Perception & Cognition, Cognitive Science Society, American Psychological Association, Society for Neuroscience

## IX. Employment History

- 2021- Postdoctoral Research Fellow, Sierra Pacific Mental Illness Research Education and Clinical Centers (MIRECC), Veterans Affairs Palo Alto Healthcare System, Palo Alto, CA
- 2021- Postdoctoral Research Fellow (P.I.: C. Keller), Stanford University School of Medicine, Palo Alto, CA
- 2021- Collaborator Status, Harvard Medical School, Berenson-Allen Center for Noninvasive Brain Stimulation, Beth Israel Deaconess Medical Center, Boston, MA
- 2021 Instructor, Frontiers of Science Institute, University of Northern Colorado
- 2018-21 Postdoctoral Research Fellow (P.I.: M. Shafi), Harvard Medical School, Berenson-Allen Center for Noninvasive Brain Stimulation, Beth Israel Deaconess Medical Center, Boston, MA
- 2018 Associate Specialist, Step I, UC Merced
- 2017-18 Graduate Dean's Dissertation Year Fellow, UC Merced
- 2016-17 Graduate Student Researcher (P.I.: R. Balasubramaniam), UC Merced  
National Science Foundation: *Collaborative Research: Brain Mechanisms of Rhythm Perception: The Impact of the Motor System on Auditory Perception*
- 2016 Teaching Assistant, Animal Cognition (J. Milostan), UC Merced
- 2015 Teaching Assistant, Service Innovation (P. Maglio), UC Merced
- 2015 Graduate Student Researcher (P.I.: R. Balasubramaniam), UC Merced  
Blum Center for Economic Development: *Rhythmic Skills and Reading: An Intervention Study in the San Joaquin Valley*
- 2014 Teaching Assistant, Perception and Action (R. Balasubramaniam), UC Merced

- 2014 Teaching Assistant, Cognitive Neuroscience (A. Warlaumont), UC Merced
- 2013 Teaching Assistant, Speech Processing (A. Warlaumont), UC Merced
- 2012-13 Psychology Tech. GS-181-5, Dept. of Veterans Affairs, Northern California Health Care System, Martinez, CA
- 2011-13 Research Assistant (PI: E. Disbrow), Center for Neuroscience, UC Davis
- 2011-12 Independent Living Facilitator, InAlliance, Sacramento, CA
- 2011-12 Science Teacher, Resident Science Program, David Lubin Elementary, Sacramento, CA
- 2010 Junior Specialist (PI: P. Janata), Center for Mind and Brain, UC Davis
- 2009-10 Research Intern (PI: P. Janata), Center for Mind and Brain, UC Davis
- 2003-09 Biological Science Tech. GS-5, Davis Field Station (PI: A.K. Miles), United States Geological Survey, Western Ecological Research Center, UC Davis