

JORDAN P. HAMM

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CURRENT POSITION

2018- current Assistant Professor
Neuroscience Institute
Georgia State University

Other Affiliations: Center for Neuroinflammation and Cardiometabolic Diseases, Georgia State University

EDUCATION

2013 Ph.D. University of Georgia
Neuroscience
December 4, 2013
Advisor: Brett A. Clementz, Ph.D.

2010 M.S. University of Georgia
Psychology

2008 B.A. University of Georgia
Philosophy

RESEARCH TRAINING

2014 – 2018 Postdoctoral Research Fellow
Columbia University
Department of Biological Sciences
Advisor: Rafael Yuste, M.D., Ph.D.

RESEARCH FUNDING

External:

2021-24 “Large-scale monitoring of circuits for adaptation and novelty detection in primary visual cortex”, F32MH125445, PI: J.M. Ross, **Sponsor: J.P. Hamm**
Co-mentors: H.E. Albers, Y. Molkov (\$213,000 Direct)

2019-22 “Mapping the role of basal forebrain projections to visual cortex in novelty processing”, Whitehall Foundation, **PI: J.P. Hamm** (\$225,000 Direct)

2017-22 “Fronto-sensory circuit mechanisms of perceptual novelty processing”, NIMH K99/R00MH115082, **PI: J.P. Hamm**. Sponsor: R. Yuste. Consultants: A. Churchland; J. Gogos (\$950,000 Direct).

2014-17 “Two-photon analysis of circuit-level mechanisms of schizophrenia biomarkers”, NIMH F32MH106265, **PI: J.P. Hamm**. Sponsor: R. Yuste. Co-sponsors: D. Javitt, J. Gordon. (\$155,000)

Internal:

- 2021- “Adolescent and sex-specific effects of cortical microglia hyperactivation on biomarkers of schizophrenia” Seed grant, Center for Neuroinflammation and Cardiometabolic Diseases, Georgia State University. **PI: J.P. Hamm** (\$15,000 Direct)
- 2020-21 “Parallel studies of novelty-processing circuits in humans and mice”, Brains and Behavior seed grant, Georgia State University. **PI: J.P. Hamm**; Co-PI: J. Malins; V. Calhoun (\$30,000 Direct)
- 2016-17 “Translational neurophysiology of neuropsychiatric disorders: leveraging the BRAIN initiative” Interdisciplinary Research Initiatives Seed (IRIS) funding program, Columbia University. PI: D. Javitt. **Co-PI: J.P. Hamm**, R. Yuste. (\$100,000)

AWARDS

- 2018 American College of Neuropsychopharmacology (ACNP) Travel Award
- 2018 Gordon Research Conference Travel Award for “Thalamocortical Interactions”
- 2017 International Congress on Schizophrenia Research (ICOSR) Young Investigator award
- 2013 Herbert Zimmer Award, University of Georgia
- 2010-12 Paul D. Coverdell Franklin Foundation Fellowship in Neuroimaging
- 2008 Travel Award, University of Georgia

PUBLICATIONS

- Wenzel, M., **Hamm, J.P.** (*In press*) Identification and quantification of neuronal ensembles in optical imaging experiments. *Journal of Neuroscience Methods*.
- Van Derveer, A.B, Bastos, G, Ferrell. A.D., Gallimore, C.G., Greene, M.L., Holmes, J.T., Kubricka, V., Ross, J.M., **Hamm, J.P.** (*In press*) A role for somatostatin-positive interneurons in neuro-oscillatory and information processing deficits in schizophrenia. *Schizophrenia Bulletin*.
- Ross, J.M., **Hamm, J.P.** (2020) Cortical Microcircuit Mechanisms of Mismatch Negativity and Its Underlying Subcomponents. *Front Neural Circuits*. 14:13
- Zhou ZC, Huang WA, Yu Y, Negahbani, E., Stitt, I.M., Alexander, M.L., **Hamm, J.P.**, Kato, H.K., Frölich, F. (2020). Stimulus-specific regulation of visual oddball differentiation in posterior parietal cortex. *Scientific Reports*. 10(1):13973.
- Hamm, J.P.**, Shymkiv, Y., Gogos, J.A., Yuste, R. (2020). Aberrant cortical ensembles and schizophrenia-like sensory phenotypes in *setd1a* mice. *Biological Psychiatry*. 88(3):215-223
- Wenzel, M., **Hamm, J.P.**, Peterka, D.S., Yuste, R. (2019) Acute focal seizures start as local synchronizations of neuronal ensembles. *Journal of Neuroscience*. 39(43):8562-75.

- Bobilev, A.M., Hudgens-Haney, M.E., **Hamm, J.P.**, Oliver, W.T., McDowell, J.E., Lauderdale, J.D., Clementz, B.A (2019) Early and late auditory information processing show opposing deviations in aniridia. *Brain Research*. 1720:146307.
- Parker, D.P., **Hamm, J.P.**, McDowell, J.E., Keedy, S.K., Gershon, E.S., Ivleva, E.I., Pearlson, G.D., Keshavan, M.S., Tamminga, C. A., Sweeney, J.A., Clementz, B.A (2019) Auditory steady-state EEG response across the schizo-bipolar spectrum. *Schizophrenia Research*. 209: 218-226.
- Jayant, K., Wenzel, M., Bando, Y., **Hamm, J.P.**, Owen, J.S., Sahin, O., Shepard, K.L, Yuste, R. (2019). Targeted intracellular recordings from deep-layer cortical neurons *in vivo*. *Cell Reports*. 26 (1): 266-278.
- Hamm, J.P.**, Peterka, D.S., Gogos, J.A., Yuste, R. (2017) Altered cortical ensembles in mouse models of schizophrenia. *Neuron*. 94, 1, 153–167.
- Wenzel, M., **Hamm, J.P.**, Peterka, D.S., Yuste, R. (2017) Reliable and elastic propagation of cortical seizures *in vivo*. *Cell Reports*. 27;19 (13): 2681-2693.
- Agetsuma, M., **Hamm, J.P.**, Tao, K., Fujisawa, S., Yuste, R. (2017) Parvalbumin-positive interneurons regulate neuronal ensembles in visual cortex. *Cerebral Cortex*. 28(5):1831:45
- Hamm, J.P.**, Yuste, R. (2016). Somatostatin Interneurons Control a Key Component of Mismatch Negativity in Mouse Visual Cortex. *Cell Reports*. 16, 407–420.
- Carrillo-Reid L., Miller J.E., **Hamm, J.P.**, Jackson J., Yuste, R. (2015). Endogenous Sequential Cortical Activity Evoked by Visual Stimuli. *Journal of Neuroscience*. 35(23):8813-28.
- Clementz, B.A., Sweeney, J.A., **Hamm, J.P.**, Ivleva, E.I., Ethridge, L.E., Pearlson, G.D., Keshavan, M.S., Tamminga, C.A. (2016). Identification of Distinct Psychosis Biotypes Using Brain-Based Biomarkers. *American Journal of Psychiatry*. 173(4):373-84
- Hayrynen, L.K., **Hamm, J.P.**, Sponheim, S.R., Clementz, B.A. (2016) Frequency-specific disruptions of neuronal oscillations reveal aberrant auditory processing in schizophrenia. *Psychophysiology*. 53(6):786-95.
- Hamm, J.P.**, Oliver, W.T., Hudgens-Haney, M., Bobilev, A., McDowell, J.E., Buckley, P.F., Clementz, B.A. (2015). Stimulus Train Duration but Not Attention Moderates γ -band Entrainment Abnormalities in Schizophrenia. *Schizophrenia Research*. 165(1):97-102.
- Mokhtari, M., Narayanan, B., **Hamm, J.P.**, Soh, P., Calhoun, V.D., Ruaño, G., Kocherla, M., Windemuth, A., Clementz, B.A., Tamminga, C.A., Sweeney, J.A., Keshavan, M.S., Pearlson, G.D. (2015) Multivariate Genetic Correlates of the Auditory Paired Stimuli-Based P2 Event-Related Potential in the Psychosis Dimension From the BSNIP Study. *Schizophrenia Bulletin*. 42(3):851-62.

- Ethridge, L.E., **Hamm, J.P.**, Pearlson, G.D., Tamminga, C.A., Sweeney, J.A., Keshavan, M.S., Clementz, B.A. (2015). Event-related Potential and Time-frequency Endophenotypes for Schizophrenia and Psychotic Bipolar Disorder. *Biological Psychiatry*. 77(2):127-36..
- Hamm, J.P.**, Ethridge, L.E., Boutros, N.N., Keshavan, M.S., Sweeney, J.A., Pearlson, G.D., Tamminga, C.A., Clementz, B.A. (2014). Diagnostic Specificity and Familiarity of Early versus Late Evoked Potentials to Auditory Paired-Stimuli across the Schizophrenia-Bipolar Psychosis Spectrum. *Psychophysiology*. 51(4):348-57.
- Hamm, J.P.**, Ethridge L.E., Shapiro J.R., Pearlson, G.D., Tamminga, C.A., Sweeney, J.A., Keshavan, M.S., Thaker, G., Clementz, B.A. (2013). Family History of Psychosis Moderates Early Auditory Cortical Response Abnormalities in Non-psychotic Bipolar Disorder. *Bipolar Disorders*. 15(7):774-86.
- Ivleva, E.I., Moates, A.F., **Hamm, J.P.**, Bernstein, I.H., Cole, D., Clementz B.A., Thaker, G., Tamminga C.A. (2013). Smooth Pursuit Eye Tracking, Prepulse Inhibition, and Auditory ERP Endophenotypes across the Schizophrenia - Bipolar Disorder Psychosis Dimension. *Schizophrenia Bulletin*. 40(3):642-52.
- Hudgens-Haney, M.E., **Hamm, J.P.**, Goodie, A.S., Krusemark, E.A., McDowell, J.E., Clementz, B.A. (2013). Neural Correlates of the Impact of Control on Decision Making in Pathological Gamblers. *Biological Psychology*. 92(2):365-72.
- Hamm, J.P.**, Sabatinelli, D., Clementz, B.A. (2012) Alpha Oscillations and the Control of Voluntary Saccadic Behavior. *Experimental Brain Research*. 221(2): 123-128.
- Hamm, J.P.**, Gilmore, C.S., Clementz, B.A. (2012) Augmented Gamma Band Auditory Steady-State Responses: Support for NMDA Hypofunction in Schizophrenia. *Schizophrenia Research*. 138(1): 1-7.
- Ethridge, L.E., **Hamm, J.P.**, Shapiro, J.R., Summerfelt, A.T., Keedy, S.K., Stevens, M.C., Pearlson, G., Tamminga, C.A., Boutros, N.N., Sweeney, J.A., Keshavan, M.S., Thaker, G., Clementz, B.A. (2012). Neural Activations During Auditory Oddball Processing Discriminating Schizophrenia and Psychotic Bipolar Disorder. *Biological Psychiatry*. 72(9):766-74.
- Hamm, J.P.**, Dyckman, K.A., McDowell, J.E., Clementz, B.A. (2012) Pre-cue Fronto-Occipital Alpha Phase and Distributed Cortical Oscillations Predict Failures of Cognitive Control. *Journal of Neuroscience*. 32(20):7034-41.
- Hamm J.P.**, Ethridge L.E., Shapiro J.R., Stevens M.C., Boutros N.N., Pearlson, G., Tamminga, C.A., Boutros, N.N., Sweeney, J.A., Keshavan, M.S., Thaker, G., Clementz, B.A. (2012) Spatio-temporal and Frequency Domain Analysis of Auditory Paired Stimuli Processing in Schizophrenia and Psychotic Bipolar Disorder. *Psychophysiology*. 49(4):522-30.
- Hamm, J.P.**, Gilmore, C.S., Picchetti, N, Sponheim, S.R., and Clementz, B.A. (2011). Abnormalities of Neuronal Oscillations and Temporal Integration to Low and High Frequency Auditory Stimulation in Schizophrenia. *Biological Psychiatry*. 69(10):989-96.

Hamm, J.P., Dyckman, K.A., Ethridge, L.E, McDowell, J.E., and Clementz, B.A. (2010). Preparatory activations across a distributed cortical network determine express saccade production. *Journal of Neuroscience*. 30(21):7350-7.

MANUSCRIPTS

Hamm, J.P., Shymkiv, Y., Han, S., Yang, W. Yuste, R. Cortical ensembles selective for novelty. BioRxiv, 10.1101/452219. *Under review*

Wenzel, M., **Hamm, J.P.** Identification and quantification of neuronal ensembles in optical imaging experiments. *J. Neuroscience Methods*. *Under Review*

INVITED SEMINARS

Hamm, J.P., “Novel Inroads to the Neuropathology of Schizophrenia Through Optical Interrogation of Neural Circuits.” Talk given for the Center for Diagnostics and Therapeutics, Georgia State University, Nov 17th 2020

Hamm, J.P., “Cortical subnetworks encode sensory context” Talk given at University of Pittsburgh, Dec 7th 2018

Hamm, J.P., “Distinct neuronal ensembles encode sensory stimulus context in the neocortex” Talk given at Georgia Tech, Nov 17th, 2018

Hamm, J.P., “Two-photon Interrogation of Cortical Circuit Dynamics and Pathophysiology” Talk given at Childrens Hospital of Philadelphia (CHOP) and University of Pennsylvania (PENN), Oct 5th 2017

Hamm, J.P. "Unreliable neocortical ensemble activity in pharmacological and genetic mouse models supports an attractor pathophysiology of schizophrenia" Talk given at Rutgers University, Oct 4th, 2017

Hamm, J.P. "Two-photon interrogation of cortical circuit pathophysiology in a translational neuropsychiatric framework". Talk given at Emory University, Aug 15th 2017

Hamm, J.P., "Leveraging two-photon and optogenetic neurotechnologies in a translational neuropsychiatric framework". Talk given at University of Georgia, Athens, GA. Jun 20th 2017

CONFERENCE PRESENTATIONS (Talks in italics)

Bastos, B., Gallimore, C.G., **Hamm, J.P.** (2021) Frequency-specific driving of frontal cortical feedback differentially engages V1 microcircuits. Poster to be presented at 2021 Society for Neuroscience (SFN) Conference, virtual.

- Gallimore, C.G., Ross, J.M., Holmes, J., Ferrell, A., **Hamm, J.P.** (2021) Differential responses to novel sensory stimuli among cortical neuron subtypes. Poster to be presented at 2021 Society for Neuroscience (SFN) Conference, virtual.
- Ross, J.M., Bastos, B., Ferrell, A., Gallimore, C.G., Holmes, J., **Hamm, J.P.** (2020) Three non-overlapping cortical interneuron subtypes relate to distinct EEG biomarkers in Neuropsychiatry. Poster to be presented at 2020 American College of Neuropsychopharmacology (ACNP), virtual.
- Hamm, J.P.** Aberrant cortical ensembles underlie schizophrenia-like phenotypes in *setd1a* deficiency. Poster presented at 2019 American College of Neuropsychopharmacology (ACNP) meeting in Orlando, FL.
- Van Derveer, A.B., Ferrell, A.D., Greene, M.L., Holmes, J.T., Kubricka, V., Ross, J.M., **Hamm, J.P.** (2019) Neuronal ensembles for auditory and visual novelty detection in posterior parietal cortex. Society for Neuroscience conference, Chicago, IL.
- Hamm, J.P., Organizer and chair of minisymposium: "Expecting the unexpected: cortical circuits for novelty detection", Society for Neuroscience conference in Chicago, IL, Oct 2019.*
- Hamm, J.P.** Three-dimensional calcium imaging of cortical subnetworks encoding novel stimuli. Sculpted Light in the Brain conference, London, UK. June 2019
- Hamm, J.P.,** Gogos, J.A. Yuste, R. Two-photon interrogation of a sensory biomarker of schizophrenia. Poster presented at 2018 American College of Neuropsychopharmacology (ACNP) meeting in Hollywood, FL.
- Hamm, J.P.,** Shymkiv, Y., Han, S., Yang, W. Yuste, R. Distinct cortical ensembles process redundant and deviant sensory stimuli. Poster presented Nov 2018 at the Society for Neuroscience conference in San Diego, CA.
- Shymkiv, Y., **Hamm, J.P.,** Yuste, R. Ensemble encoding of redundant and novel stimuli in auditory cortex. Poster presented Nov 2018 at the Society for Neuroscience conference in San Diego, CA.
- Hamm, J.P., Shymkiv, Y., Yuste, R. The role of prefrontal inputs to visual cortex in biomarkers of sensoricognitive processing deficits. Talk given as a symposium at 2018 Society for Biological Psychiatry conference in New York, New York. Co-Chair of session.*
- Hamm, J.P., Shymkiv, Y., Yuste, R. Top-Down and Thalamocortical Contributions to Sensory Context Processing and Related Biomarkers of Schizophrenia. Talk given at 2018 Gordon Research Seminar on Thalamocortical Interactions in Italy.*
- Hamm, J.P., Gogos, J.A. Yuste, R. Cell and circuit mechanisms of EEG biomarkers in mouse models. Talk given as a symposium 2017 American College of Neuropsychopharmacology (ACNP) meeting in Palm Springs, CA. Co-Chair of session.*

Hamm, J.P., Shymkiv, Y., Yuste, R. Prefrontal functional inputs in visual cortex during processing of redundant and novel stimuli. Talk given at 2017 Society for Neuroscience Meeting, Washington D.C..

Hamm, J.P., Gogos, J.A. Yuste, R. Abnormal neocortical ensemble activity in pharmacological and genetic mouse models supports an attractor pathophysiology of schizophrenia. Talk given at 2017 International Congress on Schizophrenia Research in San Diego, CA.

Hamm, J.P., Gogos, J.A. Yuste, R. Mismatch negativity depends on somatostatin interneurons and is affected in a genetic model of schizophrenia. Poster presented Nov 2016 at the Society for Neuroscience conference in San Diego, CA.

Hamm, J.P., Yuste, R. Sensory cortical ensembles are functionally disorganized in mouse models of schizophrenia. Poster presented Nov 2016 at Cell Symposia: Big Questions in Neuroscience symposium in San Diego, CA.

Hamm, J.P., Yuste, R. Contribution of Neocortical Interneurons to the Mismatch Negativity. Talk given May 2016 at the Society for Biological Psychiatry research conference (SOBP) in Atlanta, GA.

Wenzel, M., **Hamm, J.P.,** Peterka, D.S., Yuste, R. Two-photon imaging reveals the population dynamics of spatiotemporally compartmentalized ictal networks *In vivo*. Poster presented at Oct 2015 at the Society for Neuroscience Conference in Chicago, IL.

Hamm, J.P., Peterka, D.S. Yuste, R.. Fragmented Cortical Microcircuit Motifs In An Nmdar-Hypofunction Mouse Model Support An Attractor Hypothesis Of Psychotic States. Talk given Oct 2015 at the Society for Neuroscience Conference in Chicago, IL.

Hamm, J.P., Yuste, R. Microcircuit mechanisms of deviance detection biomarkers of psychotic disease. Poster presented at August 2015 Gordon Conference on “Inhibition in the CNS”

Hamm, J.P., Yuste, R. Two-Photon Calcium Imaging Of Visual Cortical Population Dynamics In A Chronic Ketamine Mouse Model Of Schizophrenia. Talk given April 2015 at the International Congress of Schizophrenia Research (ICOSR).

Hamm, J.P., Oliver, W.T., Hudgens-Haney, M., Bobilev, A., McDowell, J.E., Buckley, P.F., Clementz, B.A. Stimulus duration and context moderate gamma-band auditory neural abnormalities in schizophrenia. Poster presented at April 2013 at the International Congress of Schizophrenia Research (ICOSR), Grande Lakes, Florida

Hamm, J.P., Dyckman, K.A, McDowell, J.E., Clementz, B.A. (2012). Intrinsic frontal alpha and occipital gamma oscillations predict express saccades and antisaccade errors. Poster presented at Society for Neuroscience (SFN) New Orleans, Louisiana

Hudgens-Haney M.E., **Hamm J.P.,** Goodie A.S., Krusemark E.A., McDowell J.E., Clementz B.A. (2012). An MEG study of risk and overconfidence in pathological gamblers. To be presented at the Society for Neuroscience Annual Meeting, New Orleans LA.

Oliver W., **Hamm J.P.**, Hetrick W.P., Clementz B.A. (2012). Auditory gating in schizophrenia: context or ISI? Presented at the Society for Psychophysiological Research Annual Meeting, New Orleans LA.

Hayrynen L.K., **Hamm J.P.**, Sponheim S.R., Clementz B.A. (2012). Frequency-specific disruptions of neuronal oscillations reveal aberrant cortical network properties in schizophrenia. Presented at the Society for Psychophysiological Research Annual Meeting, New Orleans LA.

Hamm, J.P., Ethridge, L.E., Shapiro, J.R., Parker, E.M., Keshavan, M.S, Sweeney, J.S., Pearlson, G., Tamminga, C.A., Thaker, G., Clementz, B.A. (2012). Auditory Evoked Oscillations Discriminate Major Mood and Psychotic Diagnoses. Poster presented at Society of Biological Psychiatry (SOBP) Philadelphia, Pennsylvania.

Ethridge L.E., **Hamm J.P.**, Shapiro J.R., Summerfelt A.T., Keedy S.K., Stevens M.C., Pearlson G.D., Tamminga C.A., Boutros N.N., Sweeney J.A., Keshavan M.S., Clementz B.A.(2012). Late Beta Accentuation and Decreased N2 Amplitude to Auditory Oddball Stimuli Discriminate Psychosis Groups and Co-Occur in First-Degree Relatives. Presented at the Society for Biological Psychiatry Annual Meeting, Philadelphia PA, May.

Hudgens-Haney M., **Hamm J.P.**, Krusemark E.A., Goodie A.S., McDowell J.E., Clementz B.A. (2011). Neural correlates of perceived control and risky decision making in pathological gambling. Paper presented at the Society for Neuroscience Annual Meeting, Washington DC.

Hamm, J.P., Dyckman, K.A, McDowell, J.E., Clementz, B.A. (2011). Pre-trial alpha phase and beta power in frontal cortex predicts antisaccade errors. Poster presented at 2011 Society for Psychophysiological Research (SPR). Boston, Massachusetts.

Hamm, J.P., Gilmore, C.S., and Clementz, B.A. (2011). High gamma (>60Hz) abnormalities in schizophrenia patients during auditory steady-state stimulation. Talk given at 2011 International Congress of Schizophrenia Research (ICOSR). Colorado Springs, Colorado.

*Clementz B.A., **Hamm J.P.**, Ethridge L., Shapiro J. (2011). Auditory ERPs for discerning psychosis risk among bipolar and schizophrenia families. Presented as part of Electrophysiology Symposium to International Congress on Schizophrenia Research, Colorado Springs, CO.*

Hamm, J.P., Gilmore, C.S., Picchetti, N, Sponheim, S.R., and Clementz, B.A. (2010). Abnormal auditory cortical processing as a function of stimulus density in schizophrenia patients. Poster presented at 2010 Human Brain Mapping Conference (HBM) Barcelona, Spain.

Hamm, J.P., Gilmore, C.S., Picchetti, N, Sponheim, S.R., and Clementz, B.A. (2010). Schizophrenic patients display abnormal neural responses in auditory cortex to increasing rates of stimulation. Talk given at 2010 South East Nerve Net and Georgia-

South Carolina Neuroscience Consortium conference. Emory University, Atlanta, Georgia.

Goodie A.S., Hudgens-Haney M., **Hamm J.P.**, Krusemark E., McDowell J.E., Clementz B.A. (2010). Neural Correlates of the Impact of Control on Decision Making in Pathological Gamblers. Presented at the NCRG Annual Conference on Gambling and Addition, Las Vegas NV.

Hamm, J.P., Dyckman, K.A., Ethridge, L.E, McDowell, J.E., and Clementz, B.A. (2009). Pre-gap alpha phase and preparatory cortical signals determine express vs regular saccade generation. Poster presented at 2009 Event related Potentials International Congress (EPIC). Bloomington, Indiana.

EXPERIENCE

TEACHING

2020 - present	Instructor on record , Georgia State University NEUR 8020- Systems Neuroscience (Spring 2020) NEUR 8000- Principles of Neuroscience (Fall 2020)
2010 - 2013	Instructor on record , University of Georgia PSYC 3980- Research design (Fall 2010) PSYC 3990- Research methods lab (Fall 2013)
2012	Instructor on record , “EEG Oscillations Bootcamp” workshop, Arizona State University (Summer)
2008 – 2011	Graduate Teaching Assistant , University of Georgia PSYC 6430 – Applied Regression (Fall 2011) PSYC 3230 – Abnormal Psychology (Spring 2009 and Fall 2009) PSYC 2101 – Psychology of Adjustment (Fall 2008)

PROFESSIONAL ACTIVITIES

Professional Organizations:

2009-Present: Society for Neuroscience

2011-2013: Society for Psychophysiology

Invited Peer Reviewer for: *Journal of Neuroscience, Biological Psychiatry, Psychophysiology, Schizophrenia Bulletin, Schizophrenia Research, Biological Psychology, Neuroimage: Clinical, PLOS ONE, Frontiers in Systems Neuroscience, International Journal of Psychophysiology, European Journal of Neuroscience.*