



Kyoto University, Kyoto, Japan

Graduate school of Letters, Department of Psychology

Major: Experimental psychology, pattern recognition in human visual system.

- **B.A. in Psychology (Mar 1996)**

Kyoto University, Kyoto, Japan

Faculty of Letters, Department of Psychology

Major: Experimental psychology, pattern recognition in human visual system.

### **FELLOWSHIPS:**

- Research Fellowship for postdoctoral young scientists from the Japan Society for the Promotion of Science (PD). Apr 2006 – Mar 2009
- Research Fellowship for doctor course young scientists from the Japan Society for the Promotion of Science (DC1). Apr 1998 – Mar 2001

### **Research Support:**

- 5R01MH098099 2012 - 2016  
Misaki M. (Collaborator)  
“Inflammatory transcripts, genes and positive valence system function in anhedonia.”  
The study aimed to test the hypothesis that within a mood disorder sample, the genes transcripts obtained from peripheral blood mononuclear cells, anhedonia ratings, and deficits in positive valence systems was intercorrelated.
- BAA-AFSOR-2012-0001  
Misaki M. (Collaborator) 20% (all years) 2012- 2015  
“Cyber Trust and Suspicion”.  
The proposed study aims to understand the neurobiology of cyber trust.
- DoD W81XWX-11-PHTBI-BAPHA  
Misaki M. (Collaborator) 13%; 13%; 50% 2012- 2015  
“Emotion Regulation Training for Treating Warfighters with Combat-Related PTSD using Real-time fMRI and EEG-Assisted Neurofeedback”  
Proposed study will investigate a new idea that individuals suffering from combat-related PTSD can be trained to control activity in brain regions that are involved in emotion.

**PROFESSIONAL MEMBERSHIPS:**

- Organization for Human Brain Mapping
- International Society for Magnetic Resonance in Medicine
- Japan Neuroscience Society
- Japanese Psychological Association

**EXPERIENCE AND SKILLS:**

Functional MRI research on human brain function and neural underpinnings of psychiatric disorders, development of treatment methods for psychiatric disorders using real-time functional MRI, and development of novel analysis methods for functional MRI using machine learning and artificial neural network.

**Specific skills:**

- Decoding and multivariate analyses for structural MRI and functional MRI data.
- Design of fMRI and psychological experiment for human cognitive function.
- Implementation of psychological experiment task using PsychoPy.
- Statistical analysis using R.
- Deep neural network modeling with PyTorch and Keras.
- Development of GUI application with Python.
- Software development using Python, MATLAB, C, C++.
- Linux system management.
- Class I Information Technology Engineer from Information–Technology Promotion Agency, Japan (1999)
- Reviewer: Behavioural Brain Research, Biological Psychiatry, Biological Psychiatry: Cognitive Neuroscience, BMC Neuroscience, Frontiers in Behavioral Neuroscience, Frontiers in Human Neuroscience, Frontiers in Neuroscience, Heliyon, Human Brain Mapping, IEEE Transactions on Biomedical Engineering, Journal of Affective Disorders, Journal of Neuroscience Methods, NeuroImage: Clinical, Neuropsychologia, Neuroscience, Neuroscience Letters, Plos One, Research in Autism Spectrum Disorders, Schizophrenia Bulletin, Translational Psychiatry, NeuroImage, European Research Council Starting Grant.
- Publons profile: <https://publons.com/researcher/1208436/masaya-misaki/>
- ResearchGate profile: <https://www.researchgate.net/profile/Masaya-Misaki>

**PUBLICATIONS AND PRESENTATIONS:****PUBLICATIONS (from 2010):**

- Yu, X., Cohen, Z.P., Tsuchiyagaito, A., Cochran, G., Aupperle, R.L., Stewart, J.L., Singh, M.K., **Misaki, M.**, Bodurka, J., Paulus, M.P., Kirlic, N., 2022. Neurofeedback-Augmented Mindfulness Training Elicits Distinct Responses in the Subregions of the Insular Cortex in Healthy Adolescents. *Brain Sci* 12.
- Misaki, M.**, Bodurka, J., Paulus, M.P., 2022. A Library for fMRI Real-Time Processing Systems in Python (RTPSpy) With Comprehensive Online Noise Reduction, Fast and Accurate Anatomical Image Processing, and Online Processing Simulation. *Front Neurosci* 16, 834827.
- Kirlic, N., Cohen, Z.P., Tsuchiyagaito, A., **Misaki, M.**, McDermott, T.J., Aupperle, R.L., Stewart, J.L., Singh, M.K., Paulus, M.P., Bodurka, J., 2022. Self-regulation of the posterior cingulate cortex with real-time fMRI neurofeedback augmented mindfulness training in healthy adolescents: A nonrandomized feasibility study. *Cogn Affect Behav Neurosci*.
- Cosgrove, K.T., Kerr, K.L., Ratliff, E.L., Moore, A.J., **Misaki, M.**, DeVille, D.C., Aupperle, R.L., Simmons, W.K., Bodurka, J., Morris, A.S., 2022. Effects of Parent Emotion Socialization on the Neurobiology Underlying Adolescent Emotion Processing: A Multimethod fMRI Study. *Res Child Adolesc Psychopathol* 50, 149-161.
- Al Zoubi, O., Mayeli, A., **Misaki, M.**, Tsuchiyagaito, A., Zotev, V., Refai, H., Paulus, M., Bodurka, J., 2022. Canonical EEG microstates transitions reflect switching among BOLD resting state networks and predict fMRI signal. *J Neural Eng* 18, 066051.
- Tsuchiyagaito, A., Smith, J.L., El-Sabbagh, N., Zotev, V., **Misaki, M.**, Al Zoubi, O., Kent Teague, T., Paulus, M.P., Bodurka, J., Savitz, J., 2021. Real-time fMRI neurofeedback amygdala training may influence kynurenine pathway metabolism in major depressive disorder. *Neuroimage Clin* 29, 102559.
- Tsuchiyagaito, A., **Misaki, M.**, Zoubi, O.A., Tulsa, I., Paulus, M., Bodurka, J., 2021. Prevent breaking bad: A proof of concept study of rebalancing the brain's rumination circuit with real-time fMRI functional connectivity neurofeedback. *Hum Brain Mapp* 42, 922-940.
- Ratliff, E.L., Kerr, K.L., **Misaki, M.**, Cosgrove, K.T., Moore, A.J., DeVille, D.C., Silk, J.S., Barch, D.M., Tapert, S.F., Simmons, W.K., Bodurka, J., Morris, A.S., 2021. Into the Unknown: Examining Neural Representations of Parent-Adolescent Interactions.

Child Dev.

- Misaki, M.**, Mulyana, B., Zotev, V., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2021. Hippocampal volume recovery with real-time functional MRI amygdala neurofeedback emotional training for posttraumatic stress disorder. *J Affect Disord* 283, 229-235.
- Misaki, M.**, Kerr, K.L., Ratliff, E.L., Cosgrove, K.T., Simmons, W.K., Morris, A.S., Bodurka, J., 2021. Beyond synchrony: the capacity of fMRI hyperscanning for the study of human social interaction. *Soc Cogn Affect Neurosci* 16, 84-92.
- Misaki, M.**, Bodurka, J.A., 2021. The impact of real-time fMRI denoising on online evaluation of brain activity and functional connectivity. *J Neural Eng.*
- Al Zoubi, O., **Misaki, M.**, Bodurka, J., Kuplicki, R., Wohlrab, C., Schoenhals, W.A., Refai, H.H., Khalsa, S.S., Stein, M.B., Paulus, M.P., Feinstein, J.S., 2021. Taking the body off the mind: Decreased functional connectivity between somatomotor and default-mode networks following Floatation-REST. *Hum Brain Mapp* n/a.
- Zotey, V., Mayeli, A., **Misaki, M.**, Bodurka, J., 2020. Emotion self-regulation training in major depressive disorder using simultaneous real-time fMRI and EEG neurofeedback. *Neuroimage Clin* 27, 102331.
- Misaki, M.**, Tsuchiyagaito, A., Al Zoubi, O., Paulus, M., Bodurka, J., Tulsa, I., 2020. Connectome-wide search for functional connectivity locus associated with pathological rumination as a target for real-time fMRI neurofeedback intervention. *Neuroimage Clin* 26, 102244.
- Mayeli, A., **Misaki, M.**, Zotey, V., Tsuchiyagaito, A., Al Zoubi, O., Phillips, R., Smith, J., Stewart, J.L., Refai, H., Paulus, M.P., Bodurka, J., 2020. Self-regulation of ventromedial prefrontal cortex activation using real-time fMRI neurofeedback-Influence of default mode network. *Hum Brain Mapp* 41, 342-352.
- Mayeli, A., Al Zoubi, O., **Misaki, M.**, Stewart, J.L., Zotey, V., Luo, Q., Phillips, R., Fischer, S., Gotz, M., Paulus, M.P., Refai, H., Bodurka, J., 2020. Integration of Simultaneous Resting-State Electroencephalography, Functional Magnetic Resonance Imaging, and Eye-Tracker Methods to Determine and Verify Electroencephalography Vigilance Measure. *Brain Connect* 10, 535-546.
- Luo, Q., **Misaki, M.**, Mulyana, B., Wong, C.K., Bodurka, J., 2020. Improved autoregressive model for correction of noise serial correlation in fast fMRI. *Magn Reson Med* 84, 1293-1305.
- Kerr, K.L., Cosgrove, K.T., Ratliff, E.L., Burrows, K., **Misaki, M.**, Moore, A.J., DeVille, D.C.,

- Silk, J.S., Tapert, S.F., Bodurka, J., Simmons, W.K., Morris, A.S., 2020. TEAMwork: Testing Emotional Attunement and Mutuality During Parent-Adolescent fMRI. *Front Hum Neurosci* 14, 24.
- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.K., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2019. Brain activity mediators of PTSD symptom reduction during real-time fMRI amygdala neurofeedback emotional training. *Neuroimage Clin* 24, 102047.
- Cosgrove, K.T., Kerr, K.L., Aupperle, R.L., Ratliff, E.L., DeVille, D.C., Silk, J.S., Burrows, K., Moore, A.J., Antonacci, C., **Misaki, M.**, Tapert, S.F., Bodurka, J., Simmons, W.K., Morris, A.S., 2019. Always on my mind: Cross-brain associations of mental health symptoms during simultaneous parent-child scanning. *Dev Cogn Neurosci* 40, 100729.
- Al Zoubi, O., Mayeli, A., Tsuchiyagaito, A., **Misaki, M.**, Zotev, V., Refai, H., Paulus, M., Bodurka, J., Tulsa, I., 2019. EEG Microstates Temporal Dynamics Differentiate Individuals with Mood and Anxiety Disorders From Healthy Subjects. *Front Hum Neurosci* 13, 56.
- Zotey, V., Phillips, R., **Misaki, M.**, Wong, C.K., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2018. Real-time fMRI neurofeedback training of the amygdala activity with simultaneous EEG in veterans with combat-related PTSD. *NeuroImage: Clinical* 19, 106-121.
- Zotey, V., **Misaki, M.**, Phillips, R., Wong, C.K., Bodurka, J., 2018. Real-time fMRI neurofeedback of the mediodorsal and anterior thalamus enhances correlation between thalamic BOLD activity and alpha EEG rhythm. *Hum Brain Mapp* 39, 1024-1042.
- Yuan, H., Phillips, R., Wong, C.K., Zotey, V., **Misaki, M.**, Wurfel, B., Krueger, F., Feldner, M., Bodurka, J., 2018. Tracking resting state connectivity dynamics in veterans with PTSD. *NeuroImage: Clinical* 19, 260-270.
- Young, K.D., Zotey, V., Phillips, R., **Misaki, M.**, Drevets, W.C., Bodurka, J., 2018. Amygdala real-time functional magnetic resonance imaging neurofeedback for major depressive disorder: A review. *Psychiatry Clin Neurosci* 72, 466-481.
- Young, K.D., Siegle, G.J., **Misaki, M.**, Zotey, V., Phillips, R., Drevets, W.C., Bodurka, J., 2018. Altered task-based and resting-state amygdala functional connectivity following real-time fMRI amygdala neurofeedback training in major depressive disorder. *NeuroImage: Clinical* 17, 691-703.
- Savitz, J.B., Teague, T.K., **Misaki, M.**, Macaluso, M., Wurfel, B.E., Meyer, M., Drevets, D.,

- Yates, W., Gleason, O., Drevets, W.C., Preskorn, S.H., 2018. Treatment of bipolar depression with minocycline and/or aspirin: an adaptive, 2×2 double-blind, randomized, placebo-controlled, phase IIA clinical trial. *Transl Psychiatry* 8, 27.
- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.K., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2018. Real-time fMRI amygdala neurofeedback positive emotional training normalized resting-state functional connectivity in combat veterans with and without PTSD: a connectome-wide investigation. *Neuroimage Clin* 20, 543-555.
- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.-K., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2018. Connectome-wide investigation of altered resting-state functional connectivity in war veterans with and without posttraumatic stress disorder. *NeuroImage: Clinical* 17, 285-296.
- Le, T.T., Savitz, J., Suzuki, H., **Misaki, M.**, Teague, T.K., White, B.C., Marino, J.H., Wiley, G., Gaffney, P.M., Drevets, W.C., McKinney, B.A., Bodurka, J., 2018. Identification and replication of RNA-Seq gene network modules associated with depression severity. *Transl Psychiatry* 8, 180.
- Young, K.D., Siegle, G.J., Zotev, V., Phillips, R., **Misaki, M.**, Yuan, H., Drevets, W.C., Bodurka, J., 2017. Randomized Clinical Trial of Real-Time fMRI Amygdala Neurofeedback for Major Depressive Disorder: Effects on Symptoms and Autobiographical Memory Recall. *Am J Psychiatry* 174, 748-755.
- Young, K.D., **Misaki, M.**, Harmer, C.J., Victor, T., Zotev, V., Phillips, R., Siegle, G.J., Drevets, W.C., Bodurka, J., 2017. Real-Time Functional Magnetic Resonance Imaging Amygdala Neurofeedback Changes Positive Information Processing in Major Depressive Disorder. *Biol Psychiatry* 82, 578-586.
- Victor, T.A., Drevets, W.C., **Misaki, M.**, Bodurka, J., Savitz, J., 2017. Sex differences in neural responses to subliminal sad and happy faces in healthy individuals: Implications for depression. *J Neurosci Res* 95, 703-710.
- Suzuki, H., Savitz, J., Kent Teague, T., Gandhapudi, S.K., Tan, C., **Misaki, M.**, McKinney, B.A., Irwin, M.R., Drevets, W.C., Bodurka, J., 2017. Altered populations of natural killer cells, cytotoxic T lymphocytes, and regulatory T cells in major depressive disorder: Association with sleep disturbance. *Brain Behav Immun* 66, 193-200.
- Le, T.T., Simmons, W.K., **Misaki, M.**, Bodurka, J., White, B.C., Savitz, J., McKinney, B.A., 2017. Differential privacy-based evaporative cooling feature selection and classification with relief-F and random forests. *Bioinformatics* 33, 2906-2913.

- Kirlic, N., Aupperle, R.L., **Misaki, M.**, Kuplicki, R., Alvarez, R.P., 2017. Recruitment of orbitofrontal cortex during unpredictable threat among adults at risk for affective disorders. *Brain Behav* 7, e00757.
- Zotey, V., Yuan, H., **Misaki, M.**, Phillips, R., Young, K.D., Feldner, M.T., Bodurka, J., 2016. Correlation between amygdala BOLD activity and frontal EEG asymmetry during real-time fMRI neurofeedback training in patients with depression. *NeuroImage: Clinical* 11, 224-238.
- Zotey, V., Phillips, R., **Misaki, M.**, Wong, C.-K., Wurfel, B., Meyer, M., Krueger, F., Feldner, M., Bodurka, J., 2016. Evaluation of rtfMRI Neurofeedback Training Effects in Combat-related PTSD Using Simultaneous EEG. *OHBM 2016 - Annual Meeting Organization for Human Brain Mapping, Geneva, Switzerland*, p. 1082.
- Young, K.D., Preskorn, S.H., Victor, T., **Misaki, M.**, Bodurka, J., Drevets, W.C., 2016. The Effect of Mineralocorticoid and Glucocorticoid Receptor Antagonism on Autobiographical Memory Recall and Amygdala Response to Implicit Emotional Stimuli. *International Journal of Neuropsychopharmacology* 19.
- Wong, C.K., Zotey, V., **Misaki, M.**, Phillips, R., Luo, Q., Bodurka, J., 2016. Automatic EEG-assisted retrospective motion correction for fMRI (aE-REMCOR). *Neuroimage* 129, 133-147.
- Misaki, M.**, Suzuki, H., Savitz, J., Drevets, W.C., Bodurka, J., 2016. Individual Variations in Nucleus Accumbens Responses Associated with Major Depressive Disorder Symptoms. *Sci Rep* 6, 21227.
- Suzuki, H., **Misaki, M.**, Krueger, F., Bodurka, J., 2015. Neural Responses to Truth Telling and Risk Propensity under Asymmetric Information. *PLoS ONE* 10, e0137014.
- Sumitani, M., **Misaki, M.**, Kumagaya, S., Yozu, A., Otake, Y., Osumi, M., Miyauchi, S., 2015. Internally-represented space and its mirror-reversed image of the visuospatial representation: A possible association. *Med Hypotheses* 85, 500-505.
- Misaki, M.**, Savitz, J., Zotey, V., Phillips, R., Yuan, H., Young, K.D., Drevets, W.C., Bodurka, J., 2015. Contrast enhancement by combining T1- and T2-weighted structural brain MR Images. *Magn Reson Med* 74, 1609-1620.
- Misaki, M.**, Barzigar, N., Zotey, V., Phillips, R., Cheng, S., Bodurka, J., 2015. Real-time fMRI processing with physiological noise correction - Comparison with off-line analysis. *J Neurosci Methods* 256, 117-121.
- Alvarez, R.P., Kirlic, N., **Misaki, M.**, Bodurka, J., Rhudy, J.L., Paulus, M.P., Drevets, W.C.,



2015. Increased anterior insula activity in anxious individuals is linked to diminished perceived control. *Transl Psychiatry* 5, e591.
- Zotey, V., Phillips, R., Yuan, H., **Misaki, M.**, Bodurka, J., 2014. Self-regulation of human brain activity using simultaneous real-time fMRI and EEG neurofeedback. *Neuroimage* 85 Pt 3, 985-995.
- Yuan, H., Young, K.D., Phillips, R., Zotey, V., **Misaki, M.**, Bodurka, J., 2014. Resting-state functional connectivity modulation and sustained changes after real-time functional magnetic resonance imaging neurofeedback training in depression. *Brain Connect* 4, 690-701.
- Young, K.D., Zotey, V., Phillips, R., **Misaki, M.**, Yuan, H., Drevets, W.C., Bodurka, J., 2014. Real-time FMRI neurofeedback training of amygdala activity in patients with major depressive disorder. *PLoS ONE* 9, e88785.
- Watanabe, T., Kan, S., Koike, T., **Misaki, M.**, Konishi, S., Miyauchi, S., Miyahsita, Y., Masuda, N., 2014. Network-dependent modulation of brain activity during sleep. *Neuroimage* 98, 1-10.
- Misaki, M.**, Luh, W.M., Bandettini, P.A., 2013. The effect of spatial smoothing on fMRI decoding of columnar-level organization with linear support vector machine. *J Neurosci Methods* 212, 355-361.
- Misaki, M.**, Luh, W.-M., Bandettini, P.A., 2013. Accurate decoding of sub-TR timing differences in stimulations of sub-voxel regions from multi-voxel response patterns. *Neuroimage* 66, 623-633.
- Bandettini, P.A., Kundu, P., Gonzalez-Castillo, J., **Misaki, M.**, Guillod, P., 2013. Characterizing and utilizing fMRI fluctuations, patterns, and dynamics. *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, Lake Buena Vista, FL; United States, p. 86720T.
- Misaki, M.**, Wallace, G.L., Dankner, N., Martin, A., Bandettini, P.A., 2012. Characteristic cortical thickness patterns in adolescents with autism spectrum disorders: interactions with age and intellectual ability revealed by canonical correlation analysis. *Neuroimage* 60, 1890-1901.
- Misaki, M.**, Luh, W.M., Bandettini, P., 2010. Smoothing effect on ocular dominance decoding by fMRI: both high and low spatial freq. contributions. 16th Annual meeting of the organization for human brain mapping, Barcelona, Spain.
- Misaki, M.**, Luh, W.-M., Bandettini, P.A., 2010. Decoding temporal response patterns of the

ocular dominance neurons from spatiotemporal pattern of the BOLD signal. 40th Annual Meeting of the Society for Neuroscience, San Diego, USA.

**Misaki, M.**, Kim, Y., Bandettini, P.A., Kriegeskorte, N., 2010. Comparison of multivariate classifiers and response normalizations for pattern-information fMRI. *Neuroimage* 53, 103-118.

### **PRESENTATIONS (from 2010):**

#### **Oral presentations**

**Misaki, M.**, Mulyana, B., Zotev, V., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2021. Positive emotional training with real-time fMRI amygdala neurofeedback increased hippocampal volume for PTSD. Annual Meeting of ISMRM, virtual.

**Misaki, M.**, Phillips, R., Zotev, V., Krueger, F., Feldner, M., Bodurka, J., 2019. Mediators of the real-time fMRI amygdala neurofeedback training effect on PTSD symptom reduction: a whole brain structural equation model mapping analysis. Annual Meeting of the ISMRM, Montreal, QC, Canada.

**Misaki, M.**, Young, K., Yuan, H., Zotev, V., Bodurka, J., 2018. Guided discovery of clinical targets for novel mental health disorders intervention with fMRI neurofeedback. Zarrow Mental Health Symposium, Tulsa, OK.

**Misaki, M.**, 2015. Pathological reward-related brain activation in major depressive disorder: Research domain criteria approach to neuropathology of psychiatric disorders., Advanced psychiatry seminar in National Hospital Organization Hizen Psychiatric Center, Yoshinogari, Saga. Japan.

**Misaki, M.**, Suzuki, H., Victor, T., Teague, K., McKinney, B., Savitz, J., Drevets, W., Bodurka, J., 2015. Nucleus Accumbens Responses to Gain and Loss Revealed Symptom Subtypes of Major Depressive Disorder. 21st Annual Meeting of the Organization for Human Brain Mapping, Honolulu, HI. USA.

**Masaya, M.**, Bodurka, J., 2013. Unrestful rest in depression - Increased variability of resting-state brain activation in major depressive disorder. Zarrow Mental Health Symposium, Tulsa, OK.

#### **Poster presentations**

**Misaki, M.**, Tsuchiyagaito, A., Kuplicki, R., Takei, N., Paulus, M., Bodurka, J., 2021. Longitudinal Stability of Quantitative MRI Measurements. OHBM 2021 - Annual

Meeting Organization for Human Brain Mapping, virtual.

- Misaki, M.**, Breslin, F., Morris, A., Takei, N., Croff, J., Bodurka, J., 2021. Myelination Measurement in Early Brain Development with Quantitative MRI. OHBM 2021 - Annual Meeting Organization for Human Brain Mapping, virtual.
- Misaki, M.**, Young, K., Bodurka, J., 2020. Longitudinal Connectome-Wide Analysis of the Realtime fMRI Neurofeedback Training Effects in MDD. OHBM 2020 - Annual Meeting Organization for Human Brain Mapping, Montreal, QC, Canada.
- Misaki, M.**, Young, K., Bodurka, J., 2019. Structural equation model mapping for elucidating brain activity mediators of depression symptom reduction during real-time fMRI amygdala neurofeedback. rtFIN - real-time functional imaging and neurofeedback conference, Maastricht, Netherlands.
- Misaki, M.**, Tsuchiyagaito, A., Zoubi, O., Paulus, M., Bodurka, J., 2019. Framework for Optimized and Precisely-Targeted fMRI Connectivity Neurofeedback. OHBM 2019 - Annual Meeting Organization for Human Brain Mapping, Rome, Italy.
- Misaki, M.**, Tsuchiyagaito, A., Al Zoubi, O., Paulus, M., Bodurka, J., 2019. Regional connectome-wide search for resting-state functional connectivity associated with rumination symptom severity in mood and anxiety disorders. Annual Meeting of the ISMRM, Montreal, QC, Canada.
- Misaki, M.**, Bodurka, J., 2019. Cost and benefit of comprehensive data processing for real-time fMRI application. rtFIN - real-time functional imaging and neurofeedback conference, Maastricht, Netherlands.
- Misaki, M.**, Bodurka, J., 2019. Comprehensive fMRI real-time processing improves online functional connectivity evaluation. OHBM 2019 - Annual Meeting Organization for Human Brain Mapping, Rome, Italy.
- Misaki, M.**, Suzuki, H., McKinney, B., Teague, K., Savitz, J., Paulus, M., Bodurka, J., 2018. Kernel Sparse PLS Detects Latent Dimensions in Brain Activity Associated with Depression Symptoms. OHBM 2018 - Annual Meeting Organization for Human Brain Mapping, Singapore.
- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.-K., Wurfel, B.E., Krueger, F., Feldner, M., Bodurka, J., 2018. A connectome-wide investigation of the longitudinal effect of real-time fMRI amygdala neurofeedback emotional training on resting-state connectivity in combat veterans with PTSD. Joint Annual Meeting of the ISMRM and ESMRMB, Paris, France.

- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.-K., Wurfel, B., Kruger, F., Feldner, M., Bodurka, J., 2018. Whole brain effect of real-time fMRI amygdala neurofeedback emotional training and its association with PTSD symptom reduction., Joint Annual Meeting of the ISMRM and ESMRMB, Paris, France.
- Misaki, M.**, Mulyana, B., Phillips, R., Zotev, V., Wong, C.-K., Wurfel, B., Krueger, F., Feldner, M., Bodurka, J., 2018. Real-time fMRI amygdala neurofeedback training lowers PTSD symptoms with hippocampus volume increase. OHBM 2018 - Annual Meeting Organization for Human Brain Mapping, Singapore.
- Misaki, M.**, Savitz, J., Suzuki, H., McKinney, B., Drevets, W., Bodurka, J., 2017. Low Accumbens BOLD Response and Inflammation Level Differentiated Healthy and Depressed Individuals. OHBM 2017 - Annual Meeting Organization for Human Brain Mapping, Vancouver, Canada.
- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.K., Krueger, F., Feldner, M., Bodurka, J., 2017. Altered Resting-State Connectivity in PTSD and Real-Time fMRI Neurofeedback Training Effect. OHBM 2017 - Annual Meeting Organization for Human Brain Mapping, Vancouver, Canada, p. 1084.
- Misaki, M.**, Phillips, R., Zotev, V., Wong, C.-K., Kruger, F., Feldner, M., Bodurka, J., 2017. Connectome-wide exploration of altered resting-state connectivity in combat veterans with and without PTSD and real-time fMRI neurofeedback training effect on abnormal connectivity. Annual meeting of the ISMRM, Honolulu, HI.
- Misaki, M.**, Suzuki, H., Savitz, J., McKinney, B., Bodurka, J., 2016. Wavelet variance analysis of brain resting state temporal dynamics reveals role of precuneus to reach and sustain abnormal default-mode network activity in major depressive disorder. Annual Meeting of the ISMRM, Singapore.
- Misaki, M.**, Suzuki, H., Savitz, J., McKinney, B., Bodurka, J., 2016. Abnormal sustained default-mode state in MDD is associated with high precuneus hemodynamic activity. 22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.
- Misaki, M.**, Victor, T., Suzuki, H., Teague, K., McKinney, B., Savitz, J., Drevets, W., Bodurka, J., 2015. Symptom-based subtypes of major depressive disorder manifest distinct nucleus accumbens hemodynamic responses to reward and punishment. Annual Meeting of the ISMRM, Toronto, Canada.
- Misaki, M.**, Suzuki, H., Luo, Q., Wong, C.K., Phillips, R., Zotev, V., Bodurka, J., 2015.

- Hyperscan Real-Time fMRI Neurofeedback for Studying Interacting Individuals., 21st Annual Meeting of the Organization for Human Brain Mapping, Honolulu HI USA.
- Misaki, M.**, Victor, T., Suzuki, H., Teague, K., McKinney, B., Bellgowan, P., Savitz, J., Drevets, W.C., Bodurka, J., 2014. Subtypes of nucleus accumbens activations for anticipation of gains and losses in healthy and depressed subjects. Joint Annual meeting ISMRM-ESMRMB, Milan, Italy, 0832.
- Misaki, M.**, Victor, T., Suzuki, H., McKinney, B., Teague, K., Bellgowan, P., Savitz, J., Drevets, W.C., Bodurka, J., 2014. Subtypes of Nucleus Accumbens Response to Gain and Loss Anticipations in Healthy and Depressed Group. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, p. 1298.
- Misaki, M.**, Zotev, V., Phillips, R., Young, K., Yuan, H., Savitz, J., Drevets, W., Bodurka, J., 2013. Brain BOLD signal temporal fluctuations at rest increase in major depressive disorder. 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle WA, USA.
- Misaki, M.**, Zotev, V., Phillips, R., Young, K., Yuan, H., Savitz, J., Drevets, W., Bodurka, J., 2013. Brain on fire: Temporal standard deviation of resting state BOLD signal increases in major depressive disorders. Annual Meeting of the ISMRM, Salt Lake City UT, USA.
- Misaki, M.**, Savitz, J., Zotev, V., Phillips, R., Yuan, H., Young, K., Drevets, W., Bodurka, J., 2013. Novel combination of T1- and T2-weighted MRI images for enhancing structural contrast. 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle WA, USA.
- Misaki, M.**, Savitz, J., Zotev, V., Phillips, R., Yuan, H., Young, K., Drevets, W., Bodurka, J., 2013. Structural contrast enhancement by novel way to combine T1- and T2-weighted MR images. Annual Meeting of the ISMRM, Salt Lake City UT, USA.
- Misaki, M.**, Wallace, G.L., Dankner, N., Martin, A., Bandettin, P.A., 2011. Canonical Correlation Analysis of Whole-Brain Cortical Thickness in Adolescents with Autism Spectrum Disorders. 17th Annual meeting of the organization for human brain mapping, Quebec city, Canada.
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