Joshua Sandry, Ph.D.
Curriculum Vitae

Department of Psychology
Montclair State University, 1 Normal Ave, Montclair, NJ 07043
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POSITIONS

2023	Professor	Montclair State University, Psychology Department
2021 – 23	Associate Professor	Montclair State University, Psychology Department
2015 – 21	Assistant Professor	Montclair State University, Psychology Department
2015 – 17	Visiting Scientist	Kessler Foundation, Neuroscience & Neuropsychology
2015 – 16	Research Assistant Professor	Rutgers, New Jersey Medical School Department of Physical Medicine & Rehabilitation
2014 – 15	Adjunct Faculty	Montclair State University, Psychology Department

EDUCATION & TRAINING

2013 – 15	Postdoctoral Fellow, Neuroscience & Neuropsychology Kessler Foundation & Rutgers New Jersey Medical School
2010 – 13	Ph.D. Cognitive Psychology, New Mexico State University
2012	Visiting Scholar, Psychological Sciences, University of Missouri–Columbia
2008 – 10	M.A. Experimental Psychology, New Mexico State University
2006 – 07	B.S. Psychology, East Stroudsburg University of Pennsylvania *summa cum laude*
2001 – 04	A.A. Humanities & Social Science, County College of Morris

RESEARCH SUPPORT

Active

U24 Music Networks Pilot Research Program – NCCIH / OBSSR / NEA
Zuppichini (PI), Role: co-investigator
Neurophysiologic Mechanisms of Improvisational Music-based Intervention for the Treatment of Pain and Depression in Patients with Traumatic Brain Injury
$50,000 direct

5R01NS136523, National Institutes of Health, NINDS
Sandry & Sumowoski (MPI)
Computational model of neurocognitive impairment in multiple sclerosis
$2,418,756 direct
4/1/2025 – 02/28/2030

Private Grant, David's Fund of the Community Foundation of New Jersey

Sandry (PI)
David Ott neuro-music research fund
9/1/2023 (& renewal 2024)
$374,000 direct

Completed – External

2L30HD106316-03;-02; -01 National Institutes of Health, NICHD
Sandry
Loan Repayment Program Initial, Frist & Second Renewals
7/1/2025 – 6/30/2026; 7/1/2023 – 6/30/2025; 7/1/2021 – 6/30/2023

CBIR23IRG021, New Jersey Commission on Brain Injury Research
Dobryakova (PI), Role: co-investigator
The effects of effort on fatigue and brain activity in individuals with TBI
4/1/2023 – 3/31/2026
$452,366 direct; subaward: $21,818 direct

R01NS121107, National Institutes of Health, NINDS
Dobryakova (PI), Role: co-investigator
MRI markers of feedback timing during learning in individuals with TBI with and without clinical depression
4/2021 – 3/2026
$1,897,695 direct; subaward: $93,766 direct

RG-1907-34364, National Multiple Sclerosis Society
Sandry (PI)
Neuroimaging of hippocampally mediated memory dysfunction in multiple sclerosis (years 2 – 4)
10/1/2020 – 9/30/2023 (NCE)
$410,196 direct

CBIR201RG027, New Jersey Commission on Brain Injury Research
Sandry (PI)
Cognitive and neural mediators of working and long-term memory impairment in TBI
4/1/2020 – 3/31/2023.
$382,761 direct

RG-1901-33304, National Multiple Sclerosis Society
Sandry (PI)
Neuroimaging of hippocampally mediated memory dysfunction in multiple sclerosis (year 1)
10/1/2019 – 9/30/2020
$182,757 direct

Pilot Research Grant, Consortium of Multiple Sclerosis Centers
Sandry (PI)
Mathematical models of motor and mental speed
01/2018 – 12/2018
$35,530 direct

RG-1501-02630, National Multiple Sclerosis Society
Dobryakova (PI), Role: co-investigator

The effect of feedback presentation on the fronto-striatal network activity and fatigue in individuals with MS
9/2017 – 9/2018
$408,000 direct; subaward $21,523 direct

Pilot Research Grant, Foundation of the Consortium of Multiple Sclerosis Centers
Sandry (PI)
Hippocampal involvement in working and long-term memory to understand memory impairment in multiple sclerosis
01/2016-12/2016
$36,364 direct

Completed - Internal

Summer Grant Proposal Development, Montclair State University
Sandry (PI)
Bayesian neurocomputational model of cognitive change in multiple sclerosis
07/2022
$4,000

Separately Budgeted Research, Montclair State University
Sandry (PI)
Accelerated forgetting due to rapid time-based decay in multiple sclerosis
07/2019
$4,860

Summer Grant Proposal Development, Montclair State University
Sandry (PI)
Functional & structural neuroimaging of working memory mediated memory dysfunction in multiple sclerosis
05/2017
$4,000

Pre & Postdoctoral Fellowships

National Multiple Sclerosis Society Postdoctoral Fellowship; 08/2013 – 08/2015

National Science Foundation GK-12 Fellowship; 2011 – 2013

Merit-Based Enhancement Fellowship, NMSU; 2011

Howard Hughes Medical Institute Scientific Teaching Fellowship; 2010 – 2011

JOURNAL PUBLICATIONS

Cagna, C. J., Dobryakova, E., Sucich, K., Tong, T. T., & Sandry, J. (2026). Resting-state functional connections with the hippocampus and with the caudate nucleus predict working memory performance in multiple sclerosis. *Multiple Sclerosis and Related Disorders, 107451*

Marino, A. N., Cotton, K., Ricker, T. J., & Sandry, J. (2026). Reward-based prioritization and perceptual feature effects on attentional flexibility in working memory. *Attention, Perception, & Psychophysics, 88*(6), 150.

Sumowski., J. F., Levy, S., Katz Sand, I., Brandstadter, R., Lublin, F. D., Miller, A. E., & Sandry, J. (2026). Cognition in multiple sclerosis within the modern diagnostic and treatment era. Brain, 149(5), 1732 – 1749

Estelle, M. C., Marino, A., Tabuchi, R., Kang, E. & Sandry, J. (2026). The impact of music-based interventions on the psychiatric and psychological outcomes of traumatic brain injury: A systematic review. *Journal of Music Therapy, 63 (1),* 1-31 thag002

Ricker, T., Cagna, C., Tong, T. T., Dobryakova, E., & Sandry, J., (2026). Reward-based prioritization in working Memory is distinct from recency and due to a resource trade-off. *Psychonomic Bulletin and Review, 33*(1), 8

Marino, A. N., Mui, M., Dobryakova, E., & Sandry, J. (2025). Classification Systems for Moderate-Severe Traumatic Brain Injury: Review and Recommendations. *Current Physical Medicine and Rehabilitation Reports, 13*(1), 32.

Lall, S., Pardo, J., & Sandry, J. (2025). Semantic networks in relapsing-remitting multiple sclerosis exhibit reduced efficiency, interconnectivity, and flexibility. *Multiple Sclerosis Journal–Experimental, Translational and Clinical, 11(4),* 20552173251348306.

Sumowski, J. F. & Sandry, J. (2025). Multiple sclerosis cognitive scale (MSCS): A brief psychometrically-robust metric of patient-reported cognitive difficulty. *Multiple Sclerosis Journal, 31(3),* 352 – 362.

Cotton, K., Sandry, J., & Ricker, T.J. (2024). Secondary task engagement drives the McCabe effect in long-term memory. *Memory & Cognition, 52,* 1762-1774.

Dobryakova, E., Tong, T. T., Iosipchuk, O., Lequerica, A., Schneider, V. Chiaravalloti, N., & Sandry, J. (2024). Bypassing striatal learning mechanisms using delayed feedback to circumvent learning deficits in TBI. *The Journal of Head Trauma Rehabilitation, 10-1097.*

Cotton, K., Sandry, J., & Ricker, T. (2023). The effects of mind-wandering, cognitive load and task engagement on working memory performance in remote online experiments. *Experimental Psychology. 70(5):271–84* ++ Editor's Pick

Sandry, J., Levy, S., & Sumowski, J. (2023). Psychometrically valid interpretation of cognitive assessments is a prerequisite for classification of cognitive phenotypes in multiple sclerosis. *Multiple Sclerosis Journal, 29(8),* 1039-1040.

Dobryakova, E., Hafiz, R., Iosipchuk, O., Sandry, J., & Biswal, B. (2023). ALFF response interaction with learning during feedback in individuals with MS and healthy controls. *Multiple Sclerosis and Related Disorders, 104510.*

Cagna, C. J., Ceceli, A. O., Sandry, J., Bhanji, J. P., Tricomi, E., & Dobryakova, E. (2023). Altered functional connectivity during performance feedback processing in multiple sclerosis. *NeuroImage: Clinical*, 37, 103287.

Levy, S., Sandry, J., Beck, E. S., Brandstadter, R., Sand, I. K., & Sumowski, J. F. (2022). Pattern of thalamic nuclei atrophy in early relapse-onset multiple sclerosis. *Multiple Sclerosis and Related Disorders, 67,* 104083.

Sandry, J. & Ricker, T. (2022). Motor speed does not impact the drift rate: A computational HDDM approach to differentiate cognitive and motor speed. *Cognitive Research Principles and Implications, 7*(1):66, 1-15.

Mui., M., Ruben. R., Ricker., T., Dobryakova, E., & Sandry J. (2022). Ex-gaussian analysis of simple response time as a measure of information processing speed and the relationship with brain morphometry in multiple sclerosis. *Multiple Sclerosis and Related Disorders, 63,* 103890.

Dobryakova, E., Zuckerman, S. R. & Sandry, J. (2022). Neural correlates of extrinsic and intrinsic outcome processing during learning in individuals with TBI: A Pilot Investigation. *Brain Imaging and Behavior, 16,* 344-354.

Sandry, J. & Dobryakova, E. (2021). Global hippocampal and selective thalamic nuclei atrophy differentiate chronic TBI from Non-TBI. *Cortex, 145,* 37-46.

Sandry, J., Simonet, D., Brandstadter, R., Krieger, S., Katz Sand, I., Graney, R. A., Buchanan, A., Lall, S., & Sumowski, J. F. (2021). The Symbol Digit Modalities Test (SDMT) is sensitive but non-specific in MS: Lexical access speed, memory, and information processing speed independently contribute to SDMT performance. *Multiple Sclerosis and Related Disorders, 51,* 102950.

Wylie, G. R., Yao, B., Sandry, J. & DeLuca, J. (2021) Using signal detection theory to better understand cognitive fatigue. *Frontiers in Psychology,* 11:579188.

Sandry, J., Zuppichini, M. D., & Ricker, T. (2020). Attentional flexibility and prioritization improves long-term memory. *Acta Psychologica, 208,* 103104

Sandry, J. & Ricker, T. J. (2020). Prioritization within visual working memory reflects a flexible focus of attention. *Attention Perception & Psychophysics, 82(6),* 2985-3004.

Ricker, T. J., Sandry, J., Vergauwe, E., & Cowan, N. (2020). Do familiar memory items decay? *Journal of Experimental Psychology: Learning, Memory, and Cognition, 46(1)*, 60–76.

Sandry, J., Zuppichini, M. D., Rothberg, J., Valdespino-Hayden, Z., & DeLuca, J. (2019). Poor encoding and weak early consolidation underlie memory acquisition deficits in multiple sclerosis: Retroactive interference, processing speed or working memory? *Archives of Clinical Neuropsychology, 34 (2),* 162-182.

Zuppichini, M. D. & Sandry, J. (2018). Pilot investigation of the relationship between hippocampal volume and pattern separation deficits in multiple sclerosis. *Multiple Sclerosis & Related Disorders,* 26, 157-163.

Ricker, T. J. & Sandry, J. (2018). The relationship between masking and short-term consolidation during recall from visual working memory. *Annals of the New York Academy of Sciences, 1424,* 91-101

Sandry, J., Paxton, J., & Sumowski, J. F. (2016). General mathematical ability predicts PASAT performance in MS patients: Implications for clinical interpretation and cognitive reserve. *Journal of the International Neuropsychological Society, 27 (3),* 375 – 378.

Sandry, J., Chiou, K., DeLuca, J. & Chiaravalloti, N. (2016). Individual differences in working memory capacity predicts responsiveness to memory rehabilitation after TBI. *Archives of Physical Medicine and Rehabilitation, 97*(6), 1026-1029

Chiaravalloti, N. D., Sandry, J., Moore, N. B., & DeLuca, J. (2016). An RCT to treat learning impairment in traumatic brain injury: The TBI-MEM Trial. *Neurorehabilitation & Neural Repair,* 30(6), 539-550

Sumowski. J. F., Rocca, M. A., Leavitt, V. M., Riccitelli, G., Sandry, J., DeLuca, J., Comi, G., Filippi, M. (2016). Searching for the neural basis of reserve against memory decline: Intellectual enrichment linked to larger hippocampal volume in MS. *European Journal of Neurology, 23 (1),* 39-44.

Chiou, K., Sandry, J., & Chiaravalloti, N. (2015). Cognitive contributions to differences in learning after moderate to severe traumatic brain injury. *Journal of Clinical and Experimental Neuropsychology, 37 (10),* 1074 – 1085.

Sandry, J., Dobryakova, E., & DeLuca, J. (2015). New research on cognitive fatigue in multiple sclerosis. *National Academy of Neuropsychology Bulletin, 29 (1),* 25-27.

Sandry, J. (2015). Working memory and memory loss in neurodegenerative disease. *Neurodegenerative Disease Management. 5(1),* 1-4.

Sandry, J., DeLuca, J., & Chiaravalloti, N. (2015). Working memory capacity links cognitive reserve with long-term memory in moderate to severe TBI: a translational approach. *Journal of Neurology, 262(1)*, 59-64.

Sandry, J., Genova, H., Dobryakova, E., DeLuca, J. & Wylie, G., (2014). Subjective cognitive fatigue in multiple sclerosis depends on task length. *Frontiers in Neurology,* 5, 214.

Sandry, J., Schwark, J. D. & MacDonald, J. (2014). Flexibility within working memory and the focus of attention for sequential verbal information does not depend on active maintenance. *Memory & Cognition, 42,* 1130 – 1142.

Sandry, J. & Sumowski, J. F. (2014). Working memory mediates the relationship between intellectual enrichment and long-term memory in multiple sclerosis: An exploratory analysis of cognitive reserve. *Journal of the International Neuropsychological Society, 20,* 868 – 872.

Sandry, J., Rice, S., Trafimow, D., Hunt, G., Busche, L., & Rubio, E. (2013). Suboptimal recognition for increasing set sizes is largely due to inconsistency: A potential performance theory analysis of individual differences. *Cognitive Technology, 18, (2),* 4 – 17.

Schwark, J., MacDonald, J., Sandry, J. & Dolgov, I. (2013). Prevalence-based decisions undermine visual search. *Visual Cognition, 21,* 541 – 568.

Sandry, J., Trafimow, D., Marks, M. J., Rice, S. (2013). Adaptive memory: Evaluating alternative forms of fitness-relevant processing in the survival processing paradigm. *PLoS ONE 8(4),* e60868.

Schwark, J., Dolgov, I., Sandry, J., & Voklman, B. (2013). Simultaneous attentional guidance by working-memory and selection history reveals two distinct sources of attention. *Acta Psychologica, 144,* 269 – 278.

Wesp, R., Kash, M., Sandry, J. & Patton, L. (2013). Should syllabi communicate expectations regarding appropriate classroom behaviors? *Syllabus*, *2, (2),* 1 -10.

Hunt, G., Rice, S., Trafimow, D, & Sandry, J. (2013). Using potential performance theory to analyze systematic and random factors in enumeration tasks. *American Journal of Psychology. 26(1),* 23-32.

Schwark, J., Sandry, J., & Dolgov, I. (2013). Evidence for a positive relationship between working-memory capacity and detection of low-prevalence targets in visual search. *Perception, 42,* 112 – 114.

Schwark, J., Sandry, J., MacDonald, J., & Dolgov, I. (2012). False feedback increases detection of low prevalence targets in visual search. *Attention, Perception, & Psychophysics, 74(8*), 1583-1589.

MacDonald, J. A., Sandry, J., & Rice, S. (2012). Self-construal priming affects speed of retrieval from short-term memory*. PLoS ONE, 7(11*), e50007.

Hughes, J., Sandry, J. & Trafimow, D. (2012). Intentional inferences are not more likely than unintentional ones: Some evidence against the intentionality bias hypothesis. *The Journal of Social Psychology, 152,* 1 – 4.

Rice, S., Hackett, H., Trafimow, D., Hunt, G, & Sandry, J. (2012). Damned if you do and damned if you don't: Assigning blame to victims regardless of their choice. *The Social Science Journal, 49,* 5 – 8.

Rice, S., Sandry, J. & Richardson, J. (2012). How the Negative Stigma Associated with AIDS Affects Sufferers' Trustworthiness. *Review of European Studies, 4,* 54 – 65.

Sandry, J., Hunt, G., Rice, S., Trafimow, D., & Geels, K. (2011). Can priming your self lead to punishing others? *The Journal of Social Psychology, 15*, 531 – 534.

Rice, S., Keller, D., Trafimow, D. & Sandry, J. (2010). Retention of a time pressure heuristic in a target identification task. *The Journal of General Psychology, 137*, 239 – 255.

Rice, S., Trafimow, D., Hunt, G., & Sandry, J. (2010). Generalizing Kant's distinction between perfect and imperfect duties to trust in different situations. *The Journal of General Psychology, 137,* 20 – 36.

Wesp, R., Sandry, J., Prisco, A., & Sarte, P. (2009). Affective forecasts of future positive events are tempered by consideration of details. *American Journal of Psychology, 122,* 167 – 174.

CHAPTERS, PROCEEDINGS PAPERS & SUPPLEMENTAL MATERIAL (†Peer Reviewed)

Sandry, J., Akbar, N., Zuppichini, M., & DeLuca, J (2016). Cognitive rehabilitation in multiple sclerosis. In M.-K. Sun (Eds.), *Research Progress in Alzheimer's Disease and Dementia,* (Vol. 6, pp. 195-234). New York: Nova Science Publisher

† Blair, K., Sandry, J. & Rice, S., (2012). An expansion of system wide trust theory using in-vehicle automation. *Human Factors and Ergonomics Society Annual Meeting Proceedings*. *56,* 1679 – 1683.

† Sandry, J., Schwark, J., Hunt, G., Geels, K., & Rice, S. (2012). Superior visual search accuracy after exposure to natural relative to urban environments. *Human Factors and Ergonomics Society Annual Meeting Proceedings. 56, 1624-1628.*

Geels, K., Rice, S., Schwark, J., Hunt, G. & Sandry, J. (2011). Applying the reliance-compliance model to system-wide trust theory in an aviation task. *International Symposium of Aviation Psychology Annual Meeting Proceedings.*

Hunt, G., Rice, S., Trafimow, D., Schwark, J., Sandry, J., Busche, L., & Geels, K. (2011). Visual vs. auditory memory: A potential performance theory analysis. *International Symposium of Aviation Psychology Annual Meeting Proceedings.*

† Sandry, J., Schwark, J., Hunt, G., Geels, K., & Rice, S. (2011). Operator aid-switching in a case of redundant automation with single-aid failure. *Human Factors and Ergonomics Society Annual Meeting Proceedings. 55,* 1427-1431. ++ Awarded Best Student Contribution

Schwark, J., Sandry, J., Hunt, G., Geels, K., Rice, S., & Dolgov, I. (2011). Redundant automation and contagion in an aviation task. *International Symposium of Aviation Psychology Annual Meeting Proceedings.*

ABSTRACTS

Ravula, S., Sandry, J., & Ricker, T. J. (2026). When are Reward-Based Cues Most Effective in Prioritizing Working Memories? Annual Meeting of the Psychonomics Society, San Diego, California, CA

Sizer, E., Onyemeh, K., Graney, R., Dahlstrom, M., Nair, G., Reich, D. S., Rashid, S., Sandry, J., Sumowski, J, & Beck, E. S. (2026). Inversion recovery susceptibility weighted imaging with enhanced T2-weighting phase imaging is sensitive to multiple sclerosis paramagnetic rim lesions. ECTRIMS Meeting 2026, Tornoto, Canada

Ertural, E., Estelle, M., Zuppichini, M., & Sandry, J. (2026). Neural correlates of subjective word-finding impairment in late-stage multiple sclerosis. 2026 NJSHA Convention, Iselin, New Jersey

Sumowski., J. F., Levy, S., Katz Sand, I., Brandstadter, R., Lublin, F. D., Miller, A. E., & Sandry, J. (2026). Cognitive function in multiple sclerosis is qualitatively different within the modern diagnostic and treatment era: Memory difficulty despite normal cognitive speed. 2026 Annual CMSC Meeting, North Carolina

Sumowski., J. F., Levy, S., Katz Sand, I., Brandstadter, R., Lublin, F. D., Miller, A. E., & Sandry, J. (2026). Cognition in the modern MS diagnostic and treatment era: Memory difficulty but normal cognitive speed. ACTRIMS Forum 2026, San Diego, CA

Marino, A., Umemoto, A., Ricker, T.J. & Sandry, J. (2026). Working memory prioritization effects on neurophysiological mechanisms of sensory and motor processing using EEG. Cognitive Neuroscience Society 2026 Annual Meeting, Vancouver, BC, Canada

Quiñones, D.A., Marino, A., Sandry, J., & Ricker, T.J. (2025). Stimulus positioning and local/global effects on working memory creation. Poster at the 2025 Annual Meeting of the Psychonomic Society, Denver, CO

Ravula, S., Sandry, J., & Ricker, T. J. (2025) When are reward-based cues most effective in prioritizing working memories? Poster at the 2025 Annual Meeting of the Psychonomic Society, Denver, CO

Sumowski, J. & Sandry, J. (2025). Multiple sclerosis cognitive scale (MSCS): Development of a brief, psychometrically-robust, reliable, and valid metric of patient-reported cognitive deficits. Poster at ACTRIMS Forum 2025, West Palm Beach, Florida

Marino, A., Umemoto, A., Ricker, T.J. & Sandry, J. (2024). Prioritization effects on sensory and motor processing. Cowanfest: The Festschrift for Dr. Nelson Cowan, New York, New York, USA.

Cagna, C. J., Dobryakova, E., Tong, T. T., Sucich, K. & Sandry, J. (2025). Functional connections with the hippocampus at rest predict working memory performance in multiple sclerosis. Poster at the International Neuropsychological Society 53rd Annual Meeting. New Orleans, LA

Tabuchi, R., Marino, A., Kang, E. & Sandry, J. (2024). The impact of music-based interventions on the psychiatric and psychological outcomes of traumatic brain injury: A systematic review. Society for Neuroscience 2024, Chicago, Il

Quiñones, D.A., Sandry, J., & Ricker, T.J. (2024). Working memory consolidation: Global effects of inter-item free time support the encoding resource model. Poster presented at the annual Eastern South Dakota Research Symposium, Sioux Falls, South Dakota, USA.

Quiñones, D.A., Sandry, J., & Ricker, T.J. (2024). Working memory creation: Encoding resource vs. short-term consolidation. Poster at the 2024 Annual Meeting of the Psychonomic Society, New York, NY

Ricker, T. & Sandry, J. (2024). Drift diffusion modeling to clarify prioritization effects in working memory. Talk at the 2024 Annual Meeting of the Psychonomic Society, New York, NY

Cagna, C., Dobryakova, E., & Sandry, J. (2024). Hippocampal resting-state functional connectivity predicts working memory performance in multiple sclerosis. Poster at the 2024 Annual Meeting of the Consortium of Multiple Sclerosis Centers, Nashville, TN

Lall, S. & Sandry, J. (2024). Semantic Network Interconnectivity Impacts Word Retrieval in Multiple Sclerosis. Poster at the International Neuropsychological Society 52nd Annual Meeting, New York, NY, USA

Mui, M., Fomin, A., Mall, Z., Babbit, D., Lall, S., Dobryakova, E., & Sandry, J. (2023). Global volumetric reductions across amygdala nuclei in chronic TBI. Brain Injury Alliance of New Jersey 2023 Annual Professional Seminar, Asbury Park, NJ, USA

Lall, S. & Sandry, J. (2023). Low modularity contributes to reduced semantic network organization in multiple sclerosis. Poster at the International Neuropsychological Society 51st Annual Meeting, San Diego, CA, USA
Neuropsychological Society Annual Graduate Student and Post-Doctoral Fellow Research Award (2022)

Levy, S., Sandry, J., Beck, E. S., Brandstadter, R., Katz Sand, I., & Sumowski, J. (2022). Pattern of thalamic nuclei atrophy in early relapse-onset multiple sclerosis. Poster at the 2023 ECTRIMS Meeting, Amsterdam, The Netherlands

Sumowski, J., Levy, S., Dvorak, E., Katz-Sand, I., Brandstadter, R., Lublin, F., Miller, A., & Sandry, J. (2022). Reappraisal of MS Cognition in the Modern Treatment and Diagnostic Era: Impaired memory despite normal processing speed refutes the entrenched speed-centric framework. Talk at the 2023 ECTRIMS Meeting, Amsterdam, The Netherlands

Lall, S., Lopez, S., & Sandry, J. (2022). Increased organization of secondary memory and efficiency of semantic word retrieval observed in those with high vs. low working memory capacity: A network investigation. Poster presented at the Association of Psychological Science 2022 Annual Convention. Chicago, I.L.

Cagna, C. J., Ceceli A. O., Sandry, J., Bhanji, J. P., Tricomi, E., & Dobryakova, E. (2022). Altered cortico-striatal and striato-temporal connectivity during associative memory performance feedback learning in multiple sclerosis. Poster presented at the 2022 Cognitive Neuroscience Society Meeting, San Francisco, CA.

Cotton, K., Sandry, J., & Ricker, T.J. (2022, March). Mind-wandering and cognitive load effects on working memory performance across experimental contexts. Poster presented at 93rd Annual Eastern Psychological Association, New York, NY.

Cagna, C. J., Ceceli A. O., Sandry, J., Bhanji, J. P., Tricomi, E., & Dobryakova, E. (2022). Compensatory striato-temporal connections facilitate associative memory performance feedback processing in multiple sclerosis. Poster presented at 93rd Annual Eastern Psychological Association, New York, NY.

Lall, S., Lopez, S., & Sandry, J. (2022). Semantic network investigation into the role of working memory on word retrieval. Poster presented at 93rd Annual Eastern Psychological Association, New York, NY.

Cagna, C. J., Ceceli A. O., Sandry, J., Tricomi, E., & Dobryakova, E. (2021). Neurobehavioral mechanisms of cognitive performance feedback processing and learning in multiple sclerosis. Poster at Cognitive Neuroscience Society 2021 Virtual Meeting

Wylie, G. R., Yao, B., Sandry, J. & DeLuca, J. (2021). Using signal detection theory to better understand cognitive fatigue. Organization for Human Brain Mapping, Virtual II Meeting

Mui, M. & Sandry, J. (2021). Decomposing response time distributions to understand slowing of information processing speed in MS. Poster at the ACTRIMS Forum 2021, Virtual Meeting.

Spirou, A., Hafiz, R., Biswal, B., Sandry, J., Dobryakova, E. (2020). ALFF response interaction with learning during feedback in individuals with MS & healthy controls. Organization for Human Brain Mapping, Virtual II Meeting

Popok P., Valdespino-Hayden Z., Kapadia J., DeMaio E., Ventura L., Sandry J. (2019, Fall). Does Mind-Wandering Predict Impulsivity Through Behavioral Motivation Systems? New England Psychological Association, Manchester, New Hampshire.

Lall, S., Sandry, J., & Dobryakova, E. (2019, July). Examination of learning through feedback in MS. IMSCOGS, Amsterdam, Netherlands.

Lall, S., Sandry, J., & Dobryakova, E. (2019, June). Examination of learning through feedback in MS. Organization for Human Brain Mapping, Rome, Italy.

Ward, A., Peral, M., Valdespino-Hayden, Z., Garcia, V., Callanan, R., O'Connor, A., Ventura, L., & Sandry, J. (2019, March). Does Sleep Quality Mediate the Relationship between State-Anxiety and Working Memory Capacity in Individuals with High Trait Anxiety? Poster presented at the 2019 Annual meeting of the Eastern Psychological Association, New York, NY.

Popok, P., DeMaio, E., Zapata, P., Valdespino-Hayden, Z., Lowe, S. & Sandry, J. (2019, March). Pilot study of the interrelationship between sleep quality, PTSD and fatigue in multiple sclerosis. Poster presented at the 2019 Annual meeting of the Eastern Psychological Association, New York, NY.

Klecha, H., Sandry, J. & Dobryakova, E. (2019, March). Neural Correlates of Extrinsic and Intrinsic Outcome Processing in Individuals with TBI. Poster at the International Neuropsychological Society 47th Annual Meeting, New York, New York.

Buchanan, A., Lall, S., Sandry, J. & Sumowski, J. (2019, Feb). Sensitive but not specific: The multiple cognitive processes captured by the SDMT in multiple sclerosis. Poster at the International Neuropsychological Society 47th Annual Meeting, New York, New York.

Dobryakova, E., Sandry, J., & Chiaravalloti, N. (2018). Neural Correlates of Extrinsic and Intrinsic Outcome Processing in Individuals With TBI. American Congress of Rehabilitation Medicine, Dallas, Tx

Valdespino-Hayden, Z., Buchanan, A., & Sandry, J. (2018, May). Investigating long-term memory impairment in MS through the lens of the dual-component framework of working memory. Poster at the 2018 Annual Meeting of the Consortium of Multiple Sclerosis Centers, Nashville, TN

Sandry, J. (2018, June). Influence of Person Specific Factors on Efficacy of Treatment with the mSMT. In N. Chiaravalloti (Chair), The modified Story Memory Technique (mSMT) to Improve Learning and Memory in Persons with TBI. Talk/Symposium conducted at the 4th Federal Interagency Conference on Traumatic Brain Injury, Washington, DC [for C.E. credits]

Buchanan, A., Vera, N., Torres, L., Kapadia, J., Reyes, R., Callanan, R., & Sandry, J. (2018, March). Comparing clinical and lab-based measures of working memory. Poster presented at the 2018 Annual meeting of the Eastern Psychological Association, Philadelphia, PA.

Aguayo, S., Caminneci, A., DeMaio, E., Garcia, V., Zapata, P., Ricker, T. J., & Sandry, J. (2018, March). Distinctiveness of encoding does not explain flexibility within the focus of attention. Poster presented at the 2018 Annual meeting of the Eastern Psychological Association, Philadelphia, PA.

Zuppichini, M. D., Rypma, B., & Sandry, J. (2018, February). Pattern separation deficits strongly predict dentate gyrus hippocampal atrophy in relapsing remitting MS. ACRTIMS Forum 2018, San Diego, CA

Rothberg, J. R., Buchanan, A., Ruiz, J., & Sandry, J. (2017, May). Evaluating the interrelationship between depression, anxiety, and pattern separation: A hippocampal hypothesis. Poster at the 29th APS Annual Convention, Boston, Massachusetts.

Sandry, J., Rothberg, J. R., Zuppichini, M. D., & DeLuca, J. (2017, May). Ex-Gaussian simulations of response speed distributions and memory acquisition in MS. Poster at the 2017 Annual Meeting of the Consortium of Multiple Sclerosis Centers, New Orleans, Louisiana

Sandry, J., Zuppichini, M. D., Rothberg, J. R., & DeLuca, J. (2017, February). Evaluating a consolidation and interference hypothesis in multiple sclerosis. Poster at the International Neuropsychological Society 45th Annual Meeting, New Orleans, Louisiana

Zuppichini, M. D., Zlochevsky, N., Vilanova, N., Ricker, T., & Sandry, J. (2016, November). Adjusting working memory's focus of attention influences long-term memory retention. Poster at the 2016 Annual Meeting of the Psychonomic Society, Boston, Massachusetts.

Chiou, K. S., Sandry, J., Zuppichini, M. D., & Chiaravalloti, N. D. (2016, April). White Matter Predictors of Performance Improvement Following Memory Treatment in Traumatic Brain Injury. Poster at the Cognitive Neuroscience Society 23rd Annual Meeting, New York, New York.

Zuppichini, M. D., Sandry, J., Chiou, K. S., Genova, H. M., & Chiaravalloti, N. D. (2016, April). Complimentary DTI Findings Related to Learning and Memory Impairment in Separate MS and TBI Samples. Poster presented at the Cognitive Neuroscience Society 23rd Annual Meeting, New York, New York.

Sandry, J. (2016, Spring). *An embedded process approach to understand memory impairment in multiple sclerosis*. Department of Psychology, College of Staten Island, CUNY [Invited]

Sandry, J. (2016, Spring). *Focus of attention characteristics & some long-term memory.* Neurocognition Lab, Temple University [Invited]

Zuppichini, M., Genova, H., & Sandry, J. (2016, February). Structural white matter differences related to learning and memory impairment in multiple sclerosis: An exploratory DTI analysis. Poster presented at the International Neuropsychological Society 44th Annual Meeting, Boston, Massachusetts
† New Jersey Neuropsychological Society Student Award to Zuppichini

Sandry, J., Chiou, K. S., DeLuca, J., & Chiaravalloti, N. D. (2016, February). Pre-treatment differences in clinical estimates of working memory capacity determine memory rehabilitation efficacy in TBI. Talk presented (Reader: Sandry) at the International Neuropsychological Society 44th Annual Meeting, Boston, Massachusetts

Sandry, J. (2015, November). Focus of attention flexibility and set size differences for sequentially presented information. Poster presented at the 2015 Annual Meeting of the Psychonomic Society, Chicago, Illinois.

Sandry, J. (2015, June). An embedded process approach to memory impairment in MS. Talk presented at the Rutgers Biomedical & Health Sciences New Jersey Medical School 26th Annual Resident, Fellow & Postdoctoral Fellow Research Symposium

Sandry, J. (2015, May). What the clinician needs to know about reviewing the cognitive literature. In J. DeLuca (Chair), Cognitive rehabilitation in MS. Talk/Symposium conducted at the 2015 CMSC Annual Meeting, Indianapolis, Indiana [*45 minutes for C.E. credits*]

Sandry, J., Chiaravalloti, N., DeLuca, J., & Sumowski, J. F. (2015, February). What underlies the link between cognitive reserve and long-term memory impairment? Exploratory insight from two memory impaired populations. Poster presented at the International Neuropsychological Society 43rd Annual Meeting, Denver, CO.

Sandry, J. (2015, Spring). *Invited psychology alumni lecture*. Department of Psychology, East Stroudsburg University of Pennsylvania [Invited]

Chiou, K.S., Sandry, J., & Chiaravalloti, N (2015, February). Performance differences and predictors of learning after moderate and severe TBI. Poster presented at the International Neuropsychological Society 43rd Annual Meeting, Denver, CO

Sandry, J., Genova, H., DeLuca, J., & Wylie, G. (2014, September). Self-reported cognitive fatigue is a function of time on task in multiple sclerosis. Poster presented at the 2014 joint ACTRIMS-ECTRIMS Meeting, Boston, MA

Sandry, J., Wylie, G., DeLuca, J., & Genova, H. (2014, November). The temporal onset of cognitive fatigue in Multiple Sclerosis. Poster presented at the National Academy of Neuropsychology 34th Annual Conference, Fajardo, Puerto Rico. *Archives of Clinical Neuropsychology, 29(6):558*

Sandry, J. & Sumowski, J. F. (2014, May). Working memory mediates the relationship between intellectual enrichment and long-term memory in MS: An exploratory analysis of cognitive reserve. Poster presented at the 2014 CMSC ACTRIMS Cooperative Annual Meeting, Dallas, Texas.

Dolgov, I., Schwark, J. D., Sandry, J. D., & Volkman, C. B. (2013, November). Working memory vs selection history in attentional guidance. Poster presented at the 2013 Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada

Sandry, J., Schwark, J. & MacDonald, J. (2013, November). Rewarding the serial position curve: Flexible resource allocation in the focus of attention for sequential verbal information. Poster presented at the 2013 Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada.

Schwark, J., Dolgov, I. Sandry, J. & MacDonald, J. (2013, November). Target Prevalence Influences Perceptual Evidence in Visual Search Decisions. Spoken Paper (Reader: Schwark) presented at the Object Perception, Attention, & Memory 21st Annual Conference, Toronto, Ontario, Canada

Hug, S., Sandry, J., & Vordermann, R. Pontelli, E., Wright, B., (2013). DISSECT: Exposing computational thinking in the traditional K-12 curricula-design and experiences. Proceeding of the 44th ACM Technical Symposium on Computer Science Education, 742-742

Sandry, J., Schwark, J., & Dolgov, I., (2013, March). Working-memory capacity predicts detection of low-prevalence targets in visual search. Poster presented at 84th Annual meeting of the Eastern Psychological Association, New York, N.Y.

Schwark, J., Dolgov, I., Sandry, J., & MacDonald, J. (2012, November). Hitting a Miss: Limitations of Signal Detection Theory. Poster presented at the 20th Annual Object Perception, Attention, & Memory Conference. Minneapolis, M.N.

Shuster, M., Sandry, J., & Glazewski, K. (2012, June). Using Bioinformatics Tools in the K-8 Classroom: Reinforcing and Extending Fundamental Biological Concepts. Peer-reviewed abstract. Poster presented at the 112th General Meeting of the American Society for Microbiology. San Francisco, C.A.

Schwark, J. Sandry, J., MacDonald, J. & Dolgov, I. (2012, May). Deception Increases Detection of Rare Targets in Visual Search. Poster presented at the Association of Psychological Science 24th Annual Convention. Chicago, I.L.

Sandry, J., Woodington, W., & Sanchez, A. (2012, May). Superior long-term memory for emotionally negative immoral behavior. Poster presented at the Association of Psychological Science 24th Annual Convention. Chicago, I.L.

Rice, S., Geels, K., & Sandry, J. (2012, May). Imperfect in-vehicle automation reduces trust and perceived reliability for other automated devices. Poster presented at the Association of Psychological Science 24th Annual Convention. Chicago, I.L.

Geels, K., Rice, S., & Sandry, J. (2012, May). Product Reliability Ratings Affect Ensuing Product Reliability Ratings: Implications for Consumer Behavior. Poster presented at the Association of Psychological Science 24th Annual Convention. Chicago, I.L.

McMahon, L., Rice, S., Sandry, J., Richardson, J., & Geels, K. (2012, May). AIDS, Stigmas and Trustworthiness. Poster presented at the Association of Psychological Science 24th Annual Convention. Chicago, I.L.

Sandry, J., Rice, S., Trafimow, D., Hunt, G., Busche, L., & Rubio, E. (2011, November). Isolation of random and non-random factors that contribute to limited working memory capacity. Poster presented at the 19th Annual Object Perception, Attention, & Memory Conference. Seattle, W.A.

Busche, L. K., Sandry, J., Geels, K., Hunt, G., Schwark, J, & Rice, S. (2012, January). Evaluating morality: Influence of the strength of moral duty violations on expectancies of future immoral acts. Poster presented at the Society of Personality and Social Psychology 13th Annual Meeting, San Diego, CA.

Geels, K., Rice, S., Schwark, J., Hunt, G., & Sandry, J. (2011, May). False Alarms and Misses Differentially Affect Trust in Multiple Automation. Poster presented at the Association of Psychological Science 23nd Annual Convention. Washington, D.C.

Sandry, J., Schwark, J., Hunt, G., Geels, K., & Rice, S. (2011, May). Priming Nature Improves Visual Search Accuracy. Poster presented at the Association of Psychological Science 23nd Annual Convention. Washington, D.C.

Sandry, J., Hunt, G., Rice, S., & Trafimow, D. (2011, January) Perceptions of future moral violations are contingent on past perfect or imperfect duty violations. Society of Personality and Social Psychology 12th Annual Meeting, San Antonio, T.X.

Green, B. A., Sandry, J., Lebkuecker, A., Booth, M., Robinson, R., Mitschle, C., & Pohorence, C. (2010, May). Complexity of Thought as an Indirect Measure of Implicit Attitudes. Poster presented at the Association of Psychological Science 22nd Annual Conference. Boston, M.A.

Sandry, J. Trafimow, D. & Rice, S. (2010, May). A comparison of multiple evolutionary modules with the survival advantage in a free recall task. Poster presented at the Association of Psychological Science 22nd Annual Conference. Boston, M.A.

Sandry, J., & Trafimow, D. (2010, January). Recall of Kantian Duties. Paper presented at the Society for Personality and Social Psychology Justice and Morality Preconference paper exchange, Las Vegas, N.V.

Green, B. A., Keiss, H., & Sandry, J. (2010). Instructor's Manual and Test Bank (Download Only) Statistical Concepts for the Behavioral Sciences, fourth edition. Boston, CA: Allyn and Bacon.

Green, B. A., & Sandry, J. (2010). Assignments and Exercises for Students Statistical Concepts for the Behavioral Sciences, fourth edition. Boston, CA: Allyn and Bacon.

Sandry, J., & Green, B. A. (2010). PowerPoint Presentation for Statistical Concepts for the Behavioral Sciences, fourth edition. Boston, CA: Allyn and Bacon.

Wesp, R., Sandry, J., & Kash, M. (2009, August). Comparing student and faculty beliefs about appropriate classroom etiquette. In R. Wesp (Chair), Improving Psychology Education with Evidence-based Decisions: Comparing Student and Faculty Perspectives. Symposium conducted at the meeting of the American Psychological Association, Toronto, C.A.

Green, B. A., Johnson, K., Moore, J., Sandry, J., & Pohorence, C. (2008, March). The consequences of social desirability in a measure of implicit views of intelligence. In B. A. Green (Chair), Measuring Implicit Measures: Strengths, weaknesses, and future directions. Symposium conducted at Eastern Psychological Association Annual Meeting, Boston, M.A.

Pohorence, C., Sandry, J., Doyle, K., Green, B. A., & Wesp R. (2008, March). The Patterns and benefits of teaching the one sample t-test as a conceptual basis for parametric hypothesis testing. Poster presented at Eastern Psychological Association Annual Meeting, Boston, M.A.

Sandry, J. & Wesp, R. (2008, March). Priming low-level construals lower affective ratings of future positive events. Poster presented at Eastern Psychological Association Annual Meeting, Boston, M.A.

HONORS & AWARDS

2015	NIMH Summer Institute in Cognitive Neuroscience Fellowship, UC Santa Barbara
2015	Kessler Foundation Fellow Inspiration Award
2014	Consortium of Multiple Sclerosis Centers (CMSC) Scholarship
2013	National Multiple Sclerosis Society Tykeson Conference Travel
2012	Arts and Sciences Outstanding Graduate Award, NMSU
2012	Shine On! Ambassador: shining stars of the past, present, and future, NMSU
2011	Preparing Future Faculty. **Application selected/declined due to NSF conflict*
2011	HFES Perception & Performance Technical Group Student Poster Award
2008	Sigma Xi - Award for the Psychology B.S. degree program, ESU
2008	Scholastic Honors Recognition, ESU
2007	Psi Chi, ESU
2007	Summa Cum Laude, ESU
2007	Student of the Month, ESU
2007	Evelyn Hodge Memorial Scholarship for Psychology Majors, ESU
2006	John Kramer Science Award for Outstanding Research Poster, ESU

SERVICE

Grant Reviewing
National Science Foundation
UK MS Society
National Institutes of Health – Human Complex Mental Function study section
Neurological Foundation of New Zealand

Journal Reviewing
Acta Neurologica Scandinavica, Acta Psychologica, Applied Neuropsychology: Adult, Archives of Clinical Neuropsychology, Assessment, Bipolar Disorders, Cortex, Evolutionary Psychology, Frontiers in Human Neuroscience, Frontiers in Neurology, International Journal of MS Care, International Journal of Sport and Exercise Psychology, JEP General, JEP Human Perception & Performance, Journal of Clinical and Experimental Neuropsychology, Journal of Neurology, Journal of the International Neuropsychological Society, Journal of the Neurological Sciences, Memory, Memory & Cognition, Multiple Sclerosis and Related Disorders, Multiple Sclerosis

Journal, Neurocase, NeuroImage: Clinical, Neuropsychological Rehabilitation, Neuropsychology, Neuroscience, Neuroscience & Biobehavioral Reviews, PLoS One, Proceedings of the Human Factors and Ergonomic Society, Psychology & Aging, Psychonomic Bulletin & Review, Quality of Life Research, Social Science Journal, The Quantitative Methods for Psychology, Therapeutic Advances in Neurological Disorders

Committees

2025-27 College Mentoring Committee
2025-… Departmental Personnel Action Committee Chair, Psych Dept., *MSU*
2024-25 Institutional Review Board Alternate Member, *MSU*
2022 Search Committee Chair Cognitive Neuroscience Assist. Prof, Psych Dept., *MSU*
2022 Search Committee Member Director Research Compliance, Office of Research, *MSU*
2022 Undergraduate Curriculum Committee Member, Psych Dept., *MSU*
2021-24 Departmental Personnel Action Committee Member, Psych Dept., *MSU*
2018 Search Committee Co-chair Quantitative Psychology Assist. Prof, Psych Dept., *MSU*
2018-… Neuroscience Working Group, CHSS/CSAM/Provost's Office, *MSU*
2018 Scholarship Criteria Committee, Psychology Department, *MSU*
2017-24 Institutional Review Board Member, *MSU*
2017-… Clinical Psychology Affiliated Faculty / Doctoral Faculty, *MSU*
2017 Student/Faculty R Statistical Computing Language Brownbag Seminar
2016-22 Adjunct Evaluation Committee, Psychology Department, *MSU*
2016; 24 Neuroscience Track Committee, Psychology Department, *MSU*
2015-17 Montclair Student Neuroscience Association Faculty Mentor, *MSU*
2015 Search Committee Member Social Cognition Assist. Prof, Psych Dept., *MSU*
2015 Continuing Education Instructor, Consortium of Multiple Sclerosis Centers
2012-13 Human Factors and Ergonomics Society Student Chapter President, *NMSU*
2010-11 Association for Psychological Science Campus Representative to *NMSU*
2010 Graduate Student Council Finance Committee, *NMSU*
2009-10 Psychology Graduate Student Organization President, *NMSU*

TEACHING

Undergraduate & Graduate Courses

Cognitive Psychology (Grad); Human Experimental Psychology (Grad); Advanced Research Seminar (x1); Cognition (x36); Experimental Psychology (x13); Human Learning & Memory (x2); Intro to Statistical Methods in Psychology (x3); Perception (x3); Physiological Psychology (x11)

Theses / Dissertation Mentored

Allison N. Marino, *Reward-based Prioritization and Perceptual Feature Effects on Attentional Flexibility in Working Memory,* Master's Thesis Defended Spring 2026
Michelle Mui, *Ex-Gaussian analysis of inhibition in chronic moderate-severe traumatic brain injury,* Clinical Psychology Doctoral Dissertation, Defended Spring 2025
Sophia Lall, *Vulnerability of semantic networks in multiple sclerosis: An analysis of verbal fluency,* Clinical Psychology Doctoral Dissertation, Dissertation Defended Summer 2024
Zerbrina Valdespino-Hayden, *Rape Myth Acceptance and Acknowledgment: Predictors of Disclosing Sexual Assault and Service-Seeking Among College Students,* Montclair State University, Dissertation Defended Summer 2022 (co-mentor with Sarah Lowe)
Jessica Rothberg, *Evaluating the relationship between Depression, Perceived Stress, Sleep Quality, and Lure Discrimination*, Master's Thesis Defended Fall 2018

Mark Zuppichini. *Structural and Diffusion Parameters Related to Pattern Separation in Multiple Sclerosis*. Montclair State University, Master's Thesis Defended Summer 2017
Victoria Winters. *The Effect of Future Oriented Tasks vs Incidental Orienting Task on Item-to-Item Associations.* Montclair State University, Master's Thesis Defended Spring 2017

Theses Dissertation Committee Member
Patrick Dwyer. General Psychology Master's Thesis Defended Spring 2017
Christine Madurski. General Psychology Master's Thesis Defended Spring 2017
Hannah Ovadia. General Psychology Master's Defended Summer 2019
Whitney Dartnell. Clinical Psychology Master's Defended Spring 2020
Sophia Lall. Clinical Psychology Master's Defended Spring 2019
Stacy Duarte. General Psychology Master's Defended Spring 2019
Anosha Khawaja. General Psychology Master's Defended Spring 2019

Student Independent Study, Honors, Internship & Volunteer Research Supervised
Montclair State University N>100