

# Joshua D. Sandry, Ph.D.

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## FACULTY POSITIONS

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2015 –	Assistant Professor	Montclair State University, Psychology Department
2015 –	Visiting Scientist	Kessler Foundation, Neuropsychology & Neuroscience
2014 – 16	Assistant Professor	Rutgers, NJ Medical School, Department of Physical Medicine & Rehabilitation <i>non-tenure co-terminus Kessler Foundation</i>
2014 – 15	Adjunct Faculty	Montclair State University, Psychology Department
2013 – 15	Postdoctoral Fellow	Neuropsychology & Neuroscience, Kessler Foundation

## EDUCATION & TRAINING

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2010 – 13	PhD Cognitive Psychology, New Mexico State University
2012	Visiting Scholar, University of Missouri–Columbia, Psychological Sciences
2008 – 10	MA Experimental Psychology, New Mexico State University
2006 – 07	BS Psychology, East Stroudsburg University of Pennsylvania <i>summa cum laude</i>
2001 – 04	AA Humanities & Social Science, County College of Morris

## FELLOWSHIPS/HONORS/AWARDS

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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
2013 – 15	<b>National Multiple Sclerosis Society</b> Postdoctoral Fellowship (2 yrs)
2012	Arts and Sciences Outstanding Graduate Award, NMSU
2012	Shine On! Ambassador: shining stars of the past, present, and future, NMSU
2011 – 13	<b>National Science Foundation</b> – GK-12 Fellowship (2 yrs)
2011	Preparing Future Faculty. * <i>Application selected/declined due to NSF conflict</i>
2011	Merit-Based Enhancement Fellowship, NMSU
2011	HFES Perception & Performance Technical Group Student Poster Award
2010 – 11	<b>Howard Hughes Medical Institute</b> Scientific Teaching Fellowship (1 yr)
2010 – 13	Graduate Tuition Fellowship, 3 yrs/completion of Doctoral Degree, NMSU
2008 – 12	Conference Travel Funding (over \$10k in competitive proposals), NMSU
2008	Sigma Xi - Award for the Psychology B.S. degree program, ESU
2008	Scholastic Honors Recognition, 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

## CURRENT EXTRAMURAL SUPPORT

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Hippocampal involvement in working and long-term memory to understand memory impairment in multiple sclerosis. *The Foundation of the Consortium of Multiple Sclerosis Centers (named in memory of Kenneth P. Johnson, MD)*, Pilot Grant. \$36,000 Direct; \$40,000 Total. PI Sandry

## JOURNAL PUBLICATIONS

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**Sandry, J.**, Paxton, J., & Sumowski, J. F. (2016). General mathematical ability strongly 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. (in press). Individual differences in working memory capacity predicts responsiveness to memory rehabilitation after TBI. *Archives of Physical Medicine and Rehabilitation*. DOI: 10.1016/j.apmr.2015.10.109

Chiaravalloti, N. D., **Sandry, J.**, Moore, N. B., & DeLuca, J. (in press). An RCT to treat learning impairment in traumatic brain injury: The TBI-MEM Trial. *Neurorehabilitation & Neural Repair*. DOI: 10.1177/1545968315604395

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.

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

**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 & SUPPLEMENTS

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Sandroff, B., **Sandry, J.**, & DeLuca, J. (2016). The neuropsychology of multiple sclerosis. In In: Parks R.W., Zec R.F., Bondi M.W., Jefferson A.L., eds. *Neuropsychology of Alzheimer's Disease and Other Dementias*. 2 ed. Oxford University Press:

**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. xx – xx). New York: Nova Science Publisher

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.

## CONFERENCE PROCEEDING PAPERS (†Peer Reviewed)

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† 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*.

## INVITED TALKS

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

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

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

## CONFERENCE ABSTRACTS (Posters/Talks)

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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 submitted to 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 submitted to 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 submitted to the Cognitive Neuroscience Society 23rd Annual Meeting, New York, New York.

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 44<sup>th</sup> 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 44<sup>th</sup> 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 43<sup>rd</sup> Annual Meeting, Denver, CO.

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 43<sup>rd</sup> 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 34<sup>th</sup> 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 21<sup>st</sup> 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 84<sup>th</sup> 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 23rd 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 23rd 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.

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.

## **PROFESSIONAL MEMBERSHIPS & SERVICE**

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### **Professional Memberships:**

Eastern Psychological Association • Psychonomic Society • International Neuropsychological Society • Sigma Xi • Psi Chi

### **Editorial Boards:**

*International Journal of Aviation Sciences*, Editorial board member, 2016 -

### **Ad Hoc Reviewing:**

*Cortex* • *Acta Psychologica* • *Therapeutic Advances in Neurological Disorders* • *Assessment* • *Journal of Clinical and Experimental Neuropsychology* • *Psychology & Aging* • *PLoS One* • *Journal of the Neurological Sciences* • *Archives of Clinical Neuropsychology* • *Frontiers in Human Neuroscience* • *Neuroscience & Biobehavioral Reviews* • *Neuropsychology* • *International Journal of MS Care* • *Acta Neurologica Scandinavica* • *Evolutionary Psychology* • *Quality of Life Research* • *International Journal of Sport and Exercise Psychology* • *Proceedings of the Human Factors and Ergonomic Society* • *Social Science Journal*

### **Service:**

2016 Graduate Neuroscience Track Committee, Psychology Department, *MSU*  
2015 Montclair Student Neuroscience Association Faculty Mentor, *MSU*  
2015 Faculty Search Committee, Psychology Department, *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*