

## TEXAS STATE VITA

### I. Academic/Professional Background

A. Name: Carmen E. Westerberg

Title: Associate Professor

#### B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
Ph.D.	2003	Univ. of Minnesota, Twin Cities	Cognitive & Biological Psychology	<i>Dissertation:</i> Reducing false memories: The influence of instructional warnings on false recognition
B.A.	1997	Gustavus Adolphus College	Honors Psychology	

#### C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Associate Professor	Texas State University	Sept 2017-present
Assistant Professor	Texas State University	Sept 2011-Aug 2017
Postdoctoral Research Associate	Northwestern University	May 2003-Aug 2011

### II. TEACHING

#### A. Teaching Honors and Awards:

2016 College Achievement Award for Excellence in Teaching, College of Liberal Arts, Texas State University

2014 Teaching Recognition Event, Delta Zeta Sorority, Texas State University

2013 Honorary Guest Coach, Texas State University Volleyball Team

2013 Faculty Appreciation Night, Chi Omega Sorority, Texas State University

2013 Scholarship Banquet, Alpha Delta Pi Sorority, Texas State University

#### B. Courses Taught:

Psychology 3341 Cognitive Processes

Psychology 3322 Brain and Behavior

Psychology 5362 Cognitive Neuroscience

Psychology 5360K Human Memory and Memory Disorders

Psychology 4395 Individual study

Psychology 5366 Independent study

Psychology 5399 Thesis

#### C. Graduate Theses/Dissertation Committees, Honors Theses

##### Dissertation Committee:

2014-2016 Stephanie Sherman, University of Texas, Austin. *Associations between sleep and memory in aging.*

##### Thesis Supervisor for Masters of Psychological Research, Texas State University:

2020-present Cheryl Fox

2018-2020 Anna Madden-Rusnak, *The effects of sleep on repetition priming.*

2016-2018 Sean Fickle, *Sleep facilitates analogical transfer in problem solving.*

2015-2017 Mckensy Johnson, *The effect of continuous positive airway pressure (CPAP) on memory.*

- 2014-2017 Bryant Reininger, *Do memories for same-and other-race faces change after a consolidation period?*
- 2013-2016 Christopher Hawkins, *The selective consolidation of declarative memories.*
- 2013-2015 Haley Harris, *Pain anticipation and memory: An ERP study.*
- Thesis Committees for Masters of Psychological Research, Texas State University:
- 2018-2020 Mark Stern, *Non-invasive brain stimulation and the enhancement of working memory.*
- 2017-2019 Rachel Farley, *Associations among sexual assault, PTSD, and cognitive functioning.*
- 2016-2018 Dakota Tuffenstamer, *Avoidance motivation and cognitive performance.*
- 2015-2017 Katherine Mooney, *Music as a memory enhancer in healthy, young adults: An event-related potential investigation.*
- 2014-2016 Haleigh Winfrey, *The effects of attitude similarity, attachment style, and self-esteem on interpersonal attraction.*
- 2013-2016 Andrew Santana, *Music and memory: An ERP examination of the use of music as a mnemonic device.*

Thesis Committee for Master of Athletic Training, Texas State University:

- 2018-2020 Michael Kuo, *The SCAT5: A Factor Analysis.*

Thesis Committee for Master of Arts in Health Psychology, Texas State University:

- 2012-2015 Ashley Ney, *Working memory and verbal learning in individuals with and without learning difficulties.*

Honors Thesis Supervisor:

- 2016-2017 Nathan Wofford, *Effects of a brief nap on stress.*
- 2015-2016 Emily Lund, *The impact of social pressures on the report behavior of sports-related concussion.*

#### D. Courses Prepared and Curriculum Development

Courses prepared:

PSY 5362: Cognitive Neuroscience

PSY 3322: Brain and Behavior

PSY 3341: Cognitive Processes

Curriculum development:

PSY 5362: Cognitive Neuroscience

#### I. Other:

Guest Lecture:

- 2016 HON 3397: Psychology in Film. *Inception: Changing the course of waking behavior through mental events that occur during sleep.* 2/4/2016.

Honors Contract Courses:

Fall 2020 PSY 3322: Brain and Behavior. Additional assignments to enhance existing course material for Honors College student Nancy Campos.

Spring 2020 PSY 3341: Cognitive Processes. Additional assignments to enhance existing course material for Honors College student Taylor Mule.

Spring 2016 PSY 3341: Cognitive Processes. Additional assignments to enhance existing course material for Honors College student Emily Lund.

Training Completed:

- 2020 Flexing Classroom Technology for Hybrid Instruction Training, ITAC and Office of Distance and Extended Learning, Texas State University
- 2020 Teaching Online at Texas State-Hybrid, Office of Distance and Extended Learning, Texas State University
- 2011-2012 Program for Excellence in Teaching and Learning, Texas State University

Laboratory mentor/supervisor:

- 2020-2021 1 graduate student (Cheryl Fox)  
3 undergraduate students (D'onna Madlock, Nora Napper, Omalys Torres-Rodriguez)
- 2019-2020 1 graduate student (Anna Madden-Rusnak)  
8 undergraduate students (Ryhlei Bell, Ugonne Etufugh, Laura Gamboa, Kammille Harvey, Amaya Martin, Ciliana Ordaz, Karla Reyes Fierros, Chloe Troupe)
- 2018-2019 1 graduate student (Anna Madden-Rusnak)  
9 undergraduate students (Maci Allee, Ugonne Etufugh, Anna Khayyat, Serene Morris, Shelby Rubino, Shelby Sparks, Chloe Troupe, Nathan Wofford, Kelly Youngs)
- 2017-2018 1 graduate student (Sean Fickle)  
9 undergraduate students (Maci Allee, Raquel Garza, Anna Khayyat, Serene Morris, Shelby Rubino, Shelby Sparks, Audrey Sullivan, Chloe Troupe, Nathan Wofford)
- 2016-2017 2 graduate students (Sean Fickle, Mckensey Johnson)  
8 undergraduate students (Marina Bottiglieri, Holly Bowman, Sarah Hakala, Gretta Johnson, Marissa Lira, Emily Lund, Safia Menssor, Nathan Wofford)
- 2015-2016 3 graduate students (Christopher Hawkins, Mckensey Johnson, Bryant Reininger)  
20 undergraduate students (Marina Bottiglieri, Holly Bowman, Delanie Brown, Brooke Bryson, Greg Caparis, Magen Crawford, Evelyn Duran, Barbara Echevarria, Israh Imam, Gretta Johnson, Patience Kelly, Anjelica Langdon, Emily Lund, Safia Menssor, Michael Nealy, Claire Porter, Carly Reier, Stephanie Sevin, Lindell Thomas, Nathan Wofford)
- 2014-2015 5 graduate students (Yousef Alqurashi, Haley Harris, Christopher Hawkins, Bryant Reininger, Haleigh Winfrey)  
15 undergraduate students (Holly Bowman, Brooke Bryson, Tamesha Caffee, Mackinzie Caruthers, Margarita Gonzalez, Gretta Johnson, Mckensey Johnson, Patience Kelly, Shadoe Lee, Emily Lund, Stephanie Sevin, Deanna Simon, Ayesha Wickramasinghe, Michelle Wilson, Samia Zia)
- 2013-2014 3 graduate students (Yousef Alqurashi, Haley Harris, Christopher Hawkins)  
13 undergraduate students (Aaron Grady, Zachary Guram, Mckensey Johnson, Patience Kelly, Courtney Lucas, James McDade, Giovanna Perez, Meghan Ritch, Lauren Rendon, Tessa Walsh, Michelle Wilson, Haleigh Winfrey, Samia Zia)
- 2012-2013 1 graduate student (Sepeadeh Radpour)  
11 undergraduate students (Mary Aiello, Ashley Baker, Henry Blanton, Aaron Grady, Zachary Guram, Christopher Hawkins, Lina Kahera, Lauren Rendon, Lance Tschirhart, Tessa Walsh, Haleigh Winfrey)
- 2011-2012 5 undergraduate students (Mary Aiello, Joni Fields, Christopher Hawkins, David Lee, Jamie Lewis)

### III. SCHOLARLY/CREATIVE

## A. Works in Print

### 1. Books

#### d. Chapters in Books:

Paller KA, Voss JL, & Westerberg CE (2009). Memory and the awareness of remembering. In RH Kluwe, C Ranganath, B Röder, & F Rösler (Eds.), *Neuroimaging of Human Memory: Linking Cognitive Process to Neural Systems*. Oxford: Oxford University Press. pp. 383-404.

### 2. Articles

#### a. Refereed Journal Articles:

Westerberg CE, Wofford N, Menssor S, Reininger BP, & Deason RG (2020). Face category differentially influences face memories after a delay. *Journal of Cognitive Psychology*, *32*, 587-597.

Westerberg CE, Hawkins CA, & Rendon L (2018). Sleep-dependent reductions in reality-monitoring errors arise from more conservative decision criteria. *Learning and Memory*, *25*, 105-108.

Batterink LJ, Westerberg CE, & Paller KA (2017). Vocabulary learning benefits from REM after slow-wave sleep. *Neurobiology of Learning and Memory*, *144*, 102-113. Impact Factor: 3.543.

Westerberg CE, Florczak SM, Weintraub S, Mesulam M-M, Marshall L, Zee PC, & Paller KA (2015). Memory improvement via slow-oscillatory stimulation during sleep in older adults. *Neurobiology of Aging*, *36*, 2577-2586. Impact Factor: 5.013.

\*Migo E, & Westerberg CE (2014). Reconsidering claims of familiarity disruptions in mild cognitive impairment. *Aging, Neuropsychology, and Cognition*, *21*, 432-436. Impact Factor: 1.903. \* = order of authors determined alphabetically.

Westerberg CE, Mayes A, Florczak SM, Chen Y, Creery J, Parrish T, Weintraub S, Mesulam M-M, Reber PJ, & Paller KA (2013). Distinct medial temporal contributions to different forms of recognition in patients with amnesic mild cognitive impairment and Alzheimer's disease. *Neuropsychologia*, *51*, 2450-2461. Impact Factor: 4.495.

Westerberg CE, Mander BA, Florczak SM, Weintraub S, Mesulam M-M, Zee PC, & Paller KA (2012). Concurrent impairments in sleep and memory in amnesic mild cognitive impairment. *Journal of the International Neuropsychological Society*, *18*, 1-11. Impact Factor: 3.234.

Westerberg CE, Voss JL, Reber PJ, & Paller KA (2012). Medial temporal contributions to face-name learning. *Human Brain Mapping*, *33*, 1717-1726. Impact Factor: 7.032.

Westerberg CE, Reber PJ, Miller BB, Parrish TB, Cohen NJ, & Paller KA (2011). Neural correlates of contextual cueing are modulated by explicit learning. *Neuropsychologia*, *49*, 3439-3447. Impact Factor: 4.504.

Westerberg CE, Lundgren EL, Florczak SM, Weintraub S, Mesulam M-M, Zee PC, & Paller KA (2010). Sleep influences the severity of memory disruption in mild cognitive impairment: Results from sleep self-assessment and continuous activity monitoring. *Alzheimer's Disease and Associated Disorders*, *24*, 325-333. Impact Factor: 3.168.

Rudoy JD, Voss JL, Westerberg CE, & Paller KA (2009). Strengthening individual memories by reactivating them during sleep. *Science*, *326*, 1079. Impact Factor: 31.052.

- Paller KA, Voss JL, & Westerberg CE (2009). Investigating the awareness of remembering. *Perspectives on Psychological Science*, 4, 185-199. Impact Factor: 9.103.
- Chen JCW, Li W, Westerberg CE, & Tzeng OJ-L (2008). Test-item sequence affects false memory formation: An event-related potential study. *Neuroscience Letters*, 431, 51-56. Impact Factor: 2.189.
- Westerberg CE, Steele VR, & Maroslek CJ (2008). Reversing presentation order of semantically related words reverses memory. *European Journal of Cognitive Psychology*, 20, 69-90. Impact Factor: 1.598.
- Westerberg CE, Paller KA, Weintraub S, Mesulam M-M, Holdstock JS, Mayes AR, & Reber PJ (2006). When memory does not fail: Familiarity-based recognition in mild cognitive impairment and Alzheimer's disease. *Neuropsychology*, 20, 193-205. Impact Factor: 3.123.
- Westerberg CE, & Marsolek CJ (2006). Do instructional warnings reduce false recognition? *Applied Cognitive Psychology*, 20, 97-114. Impact Factor: 1.028.
- Westerberg CE, & Marsolek CJ (2003). Sensitivity reductions in false recognition: A measure of false memories with stronger theoretical implications. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 29, 747-759. Impact Factor: 2.516.
- Westerberg CE, & Marsolek CJ (2003). Hemispheric asymmetries in memory processes as measured in a false recognition paradigm. *Cortex*, 39, 627-642. Impact Factor: 2.0.
- Westerberg CE, & Marsolek CJ (1999). Questioning explicit properties of implicit individuals in knowledge representation. *Behavioral and Brain Sciences*, 22, 788-789. Impact Factor: 11.276.

### 3. Conference Proceedings

#### a. Refereed Conference Proceedings:

- Stern M, Fleming K, Reinhuber D, Broussard K, Reyes-Fierros K, Westerberg CE, Trujillo L, & Deason R (2020, May). *An investigation of verbal vs. tonal working memory using non-invasive brain stimulation*. Presented at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.
- Madden-Rusnak A, Deason RG, Marsolek CJ, & Westerberg CE (2020, May). *An afternoon nap enhances repetition priming and antipriming*. Presented at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.
- Madden-Rusnak A, Troupe CE, Fickle SE, Reyes Fierros K, & Westerberg CE (2019, October). *Sleep-dependent increases in perceived similarity facilitate analogical problem solving*. Presented at ARMADILLO, the Annual Meeting of the Southwest Cognition and Cognitive Neuroscience Society, San Antonio, TX.
- Johnson ML, Marshall SG, Kelemen WL, & Westerberg CE (2019, June). *The effects of a single night of continuous positive airway pressure on memory in patients with obstructive sleep apnea*. Presented at the Annual Meeting of the Associated Professional Sleep Societies, LLC, San Antonio, TX.
- Fickle SE, Troupe CE, & Westerberg CE (2018, November). *Sleep facilitates analogical transfer in problem solving*. Presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Wofford NJ, & Westerberg CE (2018, April). *The effects of a brief nap on stress*. Presented at the Southwestern Psychological Association Annual Meeting, Houston, TX.

- Bottiglieri MD, Menssor S, Wofford NJ, & Westerberg CE (2017, April). *Do differences in the consolidation of same-race versus other-race faces contribute to the other-race effect?* Presented at the Southwestern Psychological Association Annual Meeting, San Antonio, TX.
- Batterink LJ, Westerberg CE, & Paller KA (2017, March). *Vocabulary learning benefits from REM after slow-wave sleep.* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- Johnson ML, Bowman H, Johnson G, Imam IU, Langdon AE, & Westerberg, CE (2017, March). *A sad mood prior to sleep is sufficient to enhance sleep-dependent consolidation of sad memories.* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- Reininger BP, Caparis GA, Reier CC, & Westerberg CE (2016, April). *A two-day consolidation period improves memory for other-race faces to a greater extent than memory for same-race faces.* Presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY. *Journal of Cognitive Neuroscience*, 28, (Suppl.), 58.
- Grady AL, Hawkins CA, Winfrey H, Czyzewska M, & Westerberg CE (2015, March). *Mood influences the selectivity of sleep-dependent memory consolidation.* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA. *Journal of Cognitive Neuroscience*, 27, (Suppl.), 220.
- Malkani R, Paplambros P, Santostasi G, Reid K, Westerberg CE, Weintraub S, & Zee PC (2014, June). *Impaired slow wave activity dissipation in mild cognitive impairment.* Presented at the Annual Meeting of the Associated Professional Sleep Societies, LLC, Minneapolis, MN.
- Hawkins CA, Rendon LC, & Westerberg CE (2013, April). *Contributions of sleep-dependent memory consolidation to reality monitoring.* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA. *Journal of Cognitive Neuroscience*, 25, (Suppl.), 111.
- Westerberg CE, Florczak SM, Weintraub S, Marshall L, Mesulam M-M, Zee PC, & Paller KA (2011, April). *Electrically enhancing memory consolidation during sleep: A novel method for moderating age-related memory decline.* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA. *Journal of Cognitive Neuroscience*, 23, (Suppl.), 177.
- Westerberg CE, Florczak SM, Lundgren EM, Weintraub S, Mesulam M-M, Zee PC, & Paller KA (2010, April). *Poor sleep contributes to poor memory consolidation in amnesic mild cognitive impairment.* Presented at the Cognitive Neuroscience Society Annual Meeting, Montreal, Canada. *Journal of Cognitive Neuroscience*, 22, (Suppl.), 274.
- Westerberg CE, Florczak SM, Weintraub S, Mesulam M-M, Parrish TB, Mayes AR, Reber PJ, & Paller KA (2009, October). *Medial temporal contributions to familiarity-based recognition in Alzheimer's disease.* Presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL.
- Westerberg CE, Mander BA, Florczak SM, Jatla S, Weintraub, S, Mesulam M-M, Zee PC, & Paller KA (2009, March). *Memory failure and sleep disruption in amnesic mild cognitive impairment.* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA. *Journal of Cognitive Neuroscience*, 21, (Suppl.), 135.
- Westerberg CE, Florczak SM, Parrish TB, Weintraub S, Mesulam M-M, Mayes AR, Reber PJ, & Paller KA (2008, July). *Regional medial temporal damage and familiarity-based recognition in Alzheimer's disease.* Presented at the International Conference on Alzheimer's Disease, Chicago, IL. *Alzheimer's & Dementia*, 4, (Suppl. 2), T398.

- Ramanathan P, Ketz NA, Deason RG, Westerberg CE, & Marsolek CJ (2007, May). *Visual anti-priming and priming predicted by neurally plausible models of object identification*. Presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY. *Journal of Cognitive Neuroscience*, 19, (Suppl.), 221.
- Westerberg CE, Florczak SM, Parrish TB, Weintraub S, Mesulam M-M, Mayes AR, Reber PJ, & Paller KA (2007, May). *Relationships between medial temporal volume and recognition tested with yes-no and forced-choice formats in patients with mild cognitive impairment*. Presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY. *Journal of Cognitive Neuroscience*, 19, (Suppl.), 241.
- Westerberg CE, Florczak SM, Parrish TB, Weintraub S, Mesulam M-M, Mayes AR, Reber PJ, & Paller KA (2006, August). *When memory does not fail: Examining the neural basis of familiarity-based recognition in mild cognitive impairment*. Presented at the Neuroimaging and Psychological Theories of Human Memory Invited Conference, Marburg, Germany.
- Westerberg CE, Lundgren EM, Mander BA, Weintraub S, Mesulam M-M, Zee PC, & Paller KA (2006, April). *Assessing sleep in mild cognitive impairment: Is there a connection between poor sleep and poor memory?* Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA. *Journal of Cognitive Neuroscience*, 18, (Suppl.), 102.
- Westerberg CE, Voss JL, Parrish TB, Gitelman DR, Mesulam M-M, Reber PJ, & Paller KA (2005, April). *Anatomically distinct neural events support successful memory formation for faces, names, and face-name associations*. Presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY. *Journal of Cognitive Neuroscience*, 17, (Suppl.), 235.
- Marsolek CJ, Deason RG, & Westerberg CE (2004, November). *Visual anti-priming*. Presented at the Psychonomic Society Annual Meeting, Minneapolis, MN.
- Westerberg CE, Paller KA, Weintraub S, Mesulam M-M, Holdstock JS, Mayes AR, & Reber PJ (2004, October). *Relative preservation of forced-choice recognition in Alzheimer's disease and mild cognitive impairment*. Presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.
- Westerberg CE, Steele VR, & Marsolek CJ (2004, April). *The effects of presentation order on memory for semantically related words*. Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. *Journal of Cognitive Neuroscience*, 16, (Suppl.), 106.
- Bernat EM, Marsolek CJ, Collins PF, Steele VR, Westerberg CE, van den Broek P, & Patrick CJ (2004, April). *Event-related potentials differentiate semantic processes contributing to inferences generated during comprehension*. Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. *Journal of Cognitive Neuroscience*, 16, (Suppl.), 208-209.
- Deason RG, Westerberg CE, Capps J, & Marsolek, CJ (2003, November). *Anti-priming of familiar objects: Does priming have a purpose?* Presented at the Psychonomic Society Annual Meeting, Vancouver, BC.
- Westerberg CE, & Marsolek CJ (2003, March). *Can false recognition be reduced through warnings that discourage associative encoding?* Presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY. *Journal of Cognitive Neuroscience*, 15, (Suppl.), 178.
- Deason RG, Westerberg CE, Capps J, & Marsolek CJ (2003, March). *Visual anti-priming: Superimposed representations of objects and the nature of repetition priming*. Presented at

the Annual Meeting of the Cognitive Neuroscience Society, New York, NY. *Journal of Cognitive Neuroscience*, 15, (Suppl.), 181.

Westerberg CE, & Marsolek CJ (2002, November). *How do instructional warnings reduce false recognition?* Presented at the Psychonomic Society Annual Meeting, Kansas City, MO.

Westerberg CE, & Marsolek CJ (2002, April). *The influence of warnings on false recognition.* Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. *Journal of Cognitive Neuroscience*, 14, (Suppl.), 161.

Andresen DR, Westerberg CE, Marsolek CJ, Zhuang J, & Hu X (2001, November). *Relating fMRI signals with computational properties of visual object recognition and priming.* Presented at the Psychonomic Society Annual Meeting, Orlando, FL.

Westerberg CE, Andresen DR, Stevenson WE, & Marsolek CJ (2001, November). *Anti-priming of visual objects.* Presented at the 9<sup>th</sup> Annual Pre-Psychonomics Workshop on Object Perception and Memory (OPAM), Orlando, FL.

Westerberg CE, & Marsolek CJ (2001, March). *Sensitivity effects in false recognition: False memories due to storage, not bias.* Presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY. *Journal of Cognitive Neuroscience*, 13, (Suppl.), 33.

Westerberg CE, & Marsolek CJ (2000, April). *What mechanisms underlie false recognition?* Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. *Journal of Cognitive Neuroscience*, 12, (Suppl.), 140.

Marsolek CJ, Jax SA, Andresen DR, Burgund ED, Westerberg CE, & Henderson BJ (1999, November). *Contradictory neurocomputational properties for abstract-category and specific-exemplar object recognition.* Presented at the Psychonomic Society Annual Meeting, Los Angeles, CA.

b. Non-refereed Conference Proceedings:

Madden-Rusnak A, Deason RG, Marsolek CJ, & Westerberg CE (2020, March). *An afternoon nap enhances repetition priming and antipriming.* Women in Science and Engineering Conference, Texas State University.

Rubino SN, Sparks SD, & Westerberg CE (2019, April). *Does sleep-dependent memory consolidation contribute to the negative memory bias in individuals with high levels of depressive symptoms?* College of Liberal Arts Research Expo, Texas State University.

Troupe CE, Fickle SE, Madden-Rusnak A, & Westerberg CE (2019, April). *Sleep facilitates analogical problem solving by increasing perceived problem similarity.* College of Liberal Arts Research Expo, Texas State University.

Grady AL, Wilson M, Lucas C, & Westerberg CE (2014, April). *Never go to bed angry: Testing the consequences of this old adage.* Undergraduate Research Conference, Texas State University.

Rendon LC, Winfrey H, Guram Z, & Westerberg CE (2013, November). *The contributions of sleep to implicit memory.* Women in Science and Engineering Conference, Texas State University.



## B. Works not in Print

### 2. Invited Talks, Lectures, and Presentations:

- 2020 *Highly superior autobiographical memory is associated with superior sleep physiology.* Presented at the Annual Meeting of the Psychonomic Society, virtual.
- 2019 *The memory function of sleep.* Alliance of Researchers in Aging at Texas State University Panel Presentation “New Strategies to Improve Aging, Memory, and Sleep”, Price Center, San Marcos, TX.
- 2018 *The impact of sleep deficits on memory in aging and dementia.* Taking the Next Step: 2018 Geriatric Symposium, Texas Department of Health and Human Services, Georgetown, TX.
- 2017 *The effects of mood on sleep-dependent memory consolidation.* ARMADILLO, Texas A&M University, College Station, TX.
- 2016 *The transformation of memories during sleep: Implications for understanding both healthy and declining memory.* Presidential Seminar, Texas State University.
- 2015 *The role of sleep in memory processes in aging and Alzheimer’s disease.* Dementia and Aging Seminar Series, Sociology Department, Texas State University, McKenna Events Center, New Braunfels, TX.
- 2014 *Never go to bed angry: Testing the memorial consequences of this old adage.* Memory Disorders Research Society Annual Meeting, Austin, TX.
- 2013 *The role of sleep in healthy and dysfunctional memory.* Cognitive Neuroscience Seminar Series, University of Texas-Austin, Austin, TX.
- 2013 *Age-related changes in memory and their relation to sleep.* Aging Network, University of Texas-Austin, Austin, TX.
- 2011 *Contributions of memory processing during sleep to healthy and dysfunctional memory.* Cognitive Psychology Brown Bag, University of Chicago, Chicago, IL.
- 2010 *Sleep and memory consolidation in patients with mild cognitive impairment.* Memory Disorders Research Society Annual Meeting, Evanston, IL.
- 2010 *Potential contributions of memory processing during sleep to healthy and dysfunctional memory.* Cognitive Neurology and Alzheimer’s Disease Center, Northwestern University, Chicago, IL.
- 2009 *Understanding failures of declarative memory from a cognitive neuroscience perspective.* Text Comprehension Laboratory, DePaul University, Chicago, IL.
- 2006 *New perspectives on declarative memory in mild cognitive impairment and Alzheimer’s disease.* Neuroendocrinology Laboratory, Medical University of Lübeck, Lübeck, Germany.
- 2006 *New perspectives on declarative memory in mild cognitive impairment and Alzheimer’s disease.* Cognitive Neurology and Alzheimer’s Disease Center, Northwestern University, Chicago, IL.

### 5. Other works not in print:

#### a. Works “submitted”:

Wofford N, Ceballos N, Elkins G, & Westerberg CE (submitted). *The influence of a short break filled with sleep or wakefulness after an acute stressor on perceived stress, affect, and working memory.*

Ramanathan P, Deason RG, Westerberg CE, Ketz NA, & Marsolek CJ (submitted). *Antipriming in visual object identification and the role of visual similarity.*

#### b. Works “in progress”:

Westerberg CE, Fickle SE, Troupe CE, & Madden-Rusnak A (manuscript in preparation). *Sleep-*

*dependent increases in perceived similarity facilitate analogical problem solving.*

Media Coverage:

- Dec 2019 Memory and cognitive disorders award to help Texas State researchers explore link between sleep and memory. *San Marcos Corridor News* and *University News Service, Texas State University*. <https://smcorridornews.com/memory-and-cognitive-disorders-award-to-help-texas-state-researchers-explore-link-between-sleep-memory/>
- Nov 2018 Sleep learning gets real. *Scientific American*.
- Nov 2017 Study raises questions about brain stimulation boosting memory. *The Scientist*.
- April 2012 Research suggests link between sleep abnormalities, memory deficiency. *University News Service, Texas State University*.
- April 2012 Research suggests link between sleep problems, memory. *San Marcos Daily Record*.
- April 2010 Sounds make memories stick during sleep. *Scientific American*.

C. Grants and Contracts

1. Funded External Grants and Contracts:

- 2020-2022 Principal Investigator. McKnight Foundation Memory and Cognitive Disorders Award. *Does superior sleep physiology contribute to superior memory function? Implications for counteracting forgetting*. \$300,000.
- 2011-2013 Collaborator. American Health Assistance Foundation Alzheimer's Disease Pilot Research Grant. *Entrainment of Slow-Wave Sleep to Improve Memory in MCI*. Principal Investigator: Ken Paller. \$150,000.
- 2008-2010 Principal Investigator. American Health Assistance Foundation Alzheimer's Disease Research Grant. *Connections Between Memory Dysfunction and Sleep in Alzheimer's Disease*. \$100,000.
- 2007-2008 Principal Investigator. National Institute on Aging Pilot Project Grant for Northwestern University Cognitive Neurology and Alzheimer's Disease Center. *DC Stimulation to Improve Memory and Sleep in Alzheimer's Disease*. \$28,800.
- 2007-2008 Principal Investigator. State of Illinois Department of Public Health Alzheimer's Disease Research Fund. *Recognition Memory in Alzheimer's Disease: Examining the Neural Basis of Preserved Familiarity-Based Recognition in Mild Cognitive Impairment (year 2; competitive renewal)*. \$35,000.
- 2005-2006 Principal Investigator. State of Illinois Department of Public Health Alzheimer's Disease Research Fund. *Recognition Memory in Alzheimer's Disease: Examining the Neural Basis of Preserved Familiarity-Based Recognition in Mild Cognitive Impairment*. \$35,000.

2. Submitted External Grants and Contracts:

- 2020 Co-Principal Investigator. Grammy Foundation. *How does sleep contribute to the enhancing effects of music on memory?* \$20,000.
- 2018 Principal Investigator. National Institute of Mental Health R15 AREA. *Clarifying the effects of sleep-dependent memory consolidation on source memory*. \$373,750.

- 2015 Principal Investigator. National Science Foundation Faculty Early Career Development Program. *Investigating the Selective Nature of Sleep-Dependent Consolidation of Memories with Emotional Content*. \$529,252.
- 2013, 2014 Principal Investigator. National Institute on Aging R03. *Contributions of Sleep-Dependent Memory Consolidation to Increased Reality-Monitoring Errors in Older Adults*. \$100,000.
- 2013, 2014 Consultant. NIH National Research Service Award (NRSA). *The effects of sleep loss on memory performance in older adults*. PI: Stephanie Sherman, graduate student, University of Texas, Austin.
- 2013 Principal Investigator. National Science Foundation Faculty Early Career Development Program. *Investigating the Selective Nature of Declarative Memory Consolidation*. \$452,293.

### 3. Funded Internal Grants and Contracts:

- 2020 Mentor. Undergraduate Research Fund (URF) grant, Texas State University. *The influence of sleep-dependent memory consolidation on the cross-race effect*. \$1000. Student: Omalys Torres-Rodriguez.
- 2019 Co-Principal Investigator. Office of Research and Sponsored Programs, Texas State University. *A comprehensive psychosocial intervention for reducing burden in informal caregivers of people living with mild and moderate dementia*. \$28,468. Principal Investigator: Xi Pan.
- 2018 Principal Investigator. Research Enhancement Program, Texas State University. *Improving analogical problem solving through sleep*. \$8,000.
- 2017 Mentor. Student Undergraduate Research Fund (SURF) grant, Texas State University. *Effects of a brief nap on stress*. \$1000. Student: Nathan Wofford.
- 2017 Mentor. Associated Student Government Rising STAR Grant for Scholarly Travel Activity, Texas State University. *A sad mood prior to sleep is sufficient to enhance sleep-dependent consolidation of sad memories*. \$200. Student: Mckensey Johnson.
- 2016 Co-Investigator. Multidisciplinary Team Incentive, Texas State University. *Effects of indoor lighting interventions on sleep, well-being, and safety in older adults living independently in public housing*. \$2460. PI: Asha Hegde.
- 2016 Mentor. Thesis Research Support Fellowship. *The effect of continuous positive airway pressure on memory*. The Graduate College, Texas State University. \$2000. Student: Mckensey Johnson.
- 2016 Mentor. Student Undergraduate Research Fund (SURF) grant, Texas State University. *The impact of social pressures on the reporting of sports-related injuries*. \$1000. Student: Emily Lund.
- 2015 Mentor. Associated Student Government Rising STAR Grant for Scholarly Travel Activity, Texas State University. *Mood influences the selectivity of sleep-dependent memory consolidation*. \$500. Student: Christopher Hawkins.
- 2015 Mentor. Associated Student Government Rising STAR Grant for Scholarly Travel Activity, Texas State University. *Mood influences the selectivity of sleep-dependent memory consolidation*. \$500. Student: Haleigh Winfrey.

- 2014 Mentor. Thesis Research Support Fellowship. *The selective consolidation of declarative memories*. The Graduate College, Texas State University. \$1000. Student: Christopher Hawkins.
- 2013 Principal Investigator. Research Enhancement Program, Texas State University. *Sleeping to Remember: A Novel Approach to Understanding Age-Related Memory Decline*. \$8,000.
- 2013 Mentor. Student Undergraduate Research Fund (SURF) grant, Texas State University. *The impact of mood on sleep-dependent memory consolidation*. \$1000. Student: Aaron Grady.
- 2013 Mentor. Associated Student Government Rising STAR Grant for Scholarly Travel Activity, Texas State University. *Contributions of sleep-dependent memory consolidation to reality monitoring*. \$500. Student: Christopher Hawkins.

D. Fellowships, Awards, Honors:

- 2020 Excellence in Research Funding and Sponsored Programs, College of Liberal Arts, Texas State University
- 2018-2019 Presidential Research Leave Award, Texas State University
- 2018-2019 Grant and Proposal Writing Certificate, College of Liberal Arts, Texas State University
- 2015 Presidential Seminar Award, Texas State University
- 2015 Valero Award, Texas State University
- 2015 Presidential Distinction Award for Scholarly/Creative Activities, College of Liberal Arts, Texas State University
- 2014 Member (by election), Memory Disorders Research Society
- 2011, 2008 Duncan Prize for Memory Disorders Research, Cognitive Neurology and Alzheimer's Disease Center, Northwestern University
- 2008 Fellow, National Science Foundation ADVANCE workshop for women in science, Rice University
- 2006-2007 Postdoctoral Fellow National Research Service Award, National Institute of Mental Health, Northwestern University
- 2003-2005 Postdoctoral Trainee National Research Service Award, National Institute on Aging, Northwestern University
- 2004 Fellow, McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth College
- 2002-2003 Doctoral Dissertation Fellow, Graduate School, University of Minnesota
- 2002 Graduate Research Partnership Fellow, College of Liberal Arts, University of Minnesota
- 1998-2001 Predoctoral Trainee National Research Service Award, National Institute of Mental Health and Human Development, Center for Cognitive Sciences, University of Minnesota
- 1998-2000 Gloria J. Randall Fellow in Cognitive Neuroscience, Psychology Department, University of Minnesota
- 1997 Honors in Psychology, Gustavus Adolphus College, St. Peter, MN

**IV. SERVICE**

A. Institutional

1. University

- 2019-present Member, Alliance of Researchers in Aging (ARIA), Texas State University
- 2019-present Piper Professor selection committee, Texas State University
- 2018 *Innovation and Research in Your Backyard*, invited speaker, jointly sponsored by Bobcats United and Common Experience, Texas State University
- 2018 Judge, Writing Center Essay Contest, The Writing Center, Texas State University
- 2017 Psychology Department Respondent, International Research Conference for Graduate Students, Texas State University
- 2016 Psychology Department Representative, Men's Basketball Team recruiting event, Texas State University
- 2015 Distinguished Research Panelist, International Research Conference for Graduate Students, Texas State University
- 2015-2016 Member, Generation Connections, Texas State University

### 3. Departmental

- 2019-2020 Associate Chair, Psychology Department, Texas State University

#### Committees:

- 2020-present Mentoring Program Planning Committee, Psychology Department, Texas State University
- 2020-present Promotion/Outreach Committee, Psychology Department, Texas State University
- 2020 Technical Support Person Search Committee, Psychology Department, Texas State University
- 2019-2020 Chair, Faculty Review Committee, Psychology Department, Texas State University
- 2019 Faculty Search Committee, Psychology Department, Texas State University
- 2017-2019 Faculty Review Committee, Psychology Department, Texas State University
- 2017-present Personnel Committee, Psychology Department, Texas State University
- 2017-2018 Colloquium Committee, Psychology Department, Texas State University
- 2017-2018 Chair, Psychology Day Committee, Psychology Department, Texas State University
- 2016-2018 Psychology Day Committee, Psychology Department, Texas State University
- 2014-2017 Master of Arts in Psychological Research Committee, Psychology Department, Texas State University
- 2013-2014 Human Factors and Applied Experimental Psychology Faculty Search Committee, Psychology Department, Texas State University
- 2012-2013 Undergraduate Curriculum Committee, Psychology Department, Texas State University
- 2012-2013 Human Experimental Psychology Faculty Search Committee, Psychology Department, Texas State University
- 2011-2012 Colloquium Committee, Psychology Department, Texas State University
- 2004-2006 Postdoctoral Steering Committee, Institute for Neuroscience, Northwestern University
- 2001-2002 Faculty Search Committee, Student Representative, Psychology Department, University of Minnesota
- 2001-2002 Center for Cognitive Sciences Governing Council, Student Representative, University of Minnesota
- 1999-2000 Chair, Training Meeting Committee, Center for Cognitive Sciences, University of Minnesota

#### Other Activities:

- 2018 Contributor, Psychology Department 50<sup>th</sup> Anniversary Video
- 2015 Organized external speaker for Psychology Brown Bag Research Seminar
- 2014-2016 Psychology Department Representative, Texas State-Lockard Health Project, for establishing research connections with a new nursing care/assisted living facility in Wimberley, TX
- 2014 Organized Psychology Department Colloquium
- 2014-present Attended and presented research at Psychology Brown Bag Research Seminars
- 2013-2014 Contributor, promotional video for Masters in Psychological Research Program

**B. Professional:**

**Editorial Board Member:**

2014-present *International Journal of Neurology Research*

**Ad hoc Grant Reviewer:**

National Science Foundation

National Science Foundation Graduate Fellowship Program

Netherlands Organisation for Scientific Research

Netherlands Organisation for Health Research and Development

**Ad hoc Manuscript Reviewer (45 journals):**

*Aging, Neuropsychology, and Cognition; AIMS Medical Science; AIMS Neuroscience; Alzheimer's Disease and Associated Disorders; American Journal of Alzheimer's Disease and Other Dementias; Artificial Intelligence in Medicine; BMC Neuroscience; Brain & Cognition; Brain Impairment; Brain Research; Cerebral Cortex; Cognitive Neuroscience; Dementia and Geriatric Cognitive Disorders; Experimental Brain Research; Frontiers in Aging Neuroscience; Frontiers in Behavioral Neuroscience; Hippocampus; International Journal of Clinical and Experimental Hypnosis; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: Learning, Memory, & Cognition; Journal of General Psychology; Journal of Geriatric Psychiatry & Neurology; Journal of Gerontology: Psychological Sciences; Journal of Neurology & Neuromedicine; Journal of Neuroscience; Journal of Psychiatry; Journal of the International Neuropsychological Society; Journal of the Neurological Sciences; Learning & Memory; Learning and Motivation; Memory; Memory & Cognition; Nature and Science of Sleep; Nature Neuroscience; Neurobiology of Aging; Neurobiology of Disease; Neurobiology of Sleep and Circadian Rhythms; Neuropsychologia; Neuropsychology; Neuropsychology Review; Plos One; Psychophysiology; Quarterly Journal of Experimental Psychology; Sleep; Sleep Medicine; Sleep Medicine Reviews*

**Assessor, British Psychological Society:**

2016 Provided assessments of candidates for the Spearman Medal, for the most outstanding contributions to psychology by an early career British scientist.

**Psychonomic Society:**

2020 Reviewed applications for Graduate Student Conference Award

2020 Served as session chair at Annual Meeting

2019 Reviewed applications for the Yates Travel Award

**Metafact:**

2019 Provided expert opinions to questions posed by the public

**Textbook Reviewer:**

2019 Provided quotes for advertisements of *Cognition: The Thinking Animal, 4<sup>th</sup> Edition*.

- 2018 Provided quotes for advertisements and back cover of Watson NV & Breedlove SM (2018). *The Mind's Machine: Foundations of Brain and Behavior*, 3<sup>rd</sup> Edition.
- 2018 Reviewed textbook *The Mind's Machine: Foundations of Brain and Behavior*, 3<sup>rd</sup> Edition, by NV Watson and SM Breedlove, Sinauer Associates, Inc. prior to release.
- 2018 Reviewed textbook *Principles of Cognitive Neuroscience*, 2<sup>nd</sup> Edition, by D Purves, R Cabeza, SA Huettel, KS LaBar, ML Platt, & MG Woldorff, Sinauer Associates, Inc., for preparation of 3<sup>rd</sup> Edition of textbook.
- 2018 Reviewed two chapters of advance copy of textbook *Cognition: The Thinking Animal*, 4<sup>th</sup> Edition, by DT Willingham and C Reiner, prior to release of textbook.
- 2017 Reviewed six chapters of advance copy of textbook *Cognition: The Thinking Animal*, 4<sup>th</sup> Edition, by DT Willingham and C Reiner, prior to release of textbook.
- 2017 Reviewed textbook *The Mind's Machine: Foundations of Brain and Behavior*, 2<sup>nd</sup> Edition, by NV Watson and SM Breedlove, Sinauer Associates, Inc., for preparation of 3<sup>rd</sup> Edition of textbook.
- 2015 Provided quotes for advertisements for Watson NV & Breedlove SM (2016). *The Mind's Machine: Foundations of Brain and Behavior*, 2<sup>nd</sup> Edition. Sinauer Associates, Inc.
- 2013 Reviewed active learning problem sets developed for use in Neurobiology courses for Sinauer Associates, Publishers.
- 2013 Reviewed textbook *The Mind's Machine: Foundations of Brain and Behavior*, by NV Watson and SM Breedlove, Sinauer Associates, Inc., for preparation of 2<sup>nd</sup> Edition of textbook.

Organizations:

Honorary: Phi Beta Kappa

Professional: Association for Gerontology in Higher Education, Cognitive Neuroscience Society, Memory Disorders Research Society, Psychonomic Society, Sleep Research Society, Society for Neuroscience

C. Community:

- 2017 San Marcos High School Psychology Club. Gave lab tour, research introduction
- 2016 Faculty mentor to 8<sup>th</sup> grade student from Jefferson County Open School, Lakewood, CO, for project on dreaming
- 2015 Texas State University Psychology Department Team Captain, Walk to End Alzheimer's Disease, Alzheimer's Association, Capital of Texas Chapter
- 2015 Faculty mentor to 7<sup>th</sup> grade student from Khabele School in Austin, TX, for Project Week project on lucid dreaming
- 2013 San Marcos High School Psychology Club. Gave lab tour, research introduction
- 2007 Science Fair Judge, Lincoln Hall Middle School, Lincolnwood, IL

F. Service Honors and Awards:

- 2014 College Achievement Award for Excellence in Service, College of Liberal Arts, Texas State University
- 2002 James J. Jenkins Award for extraordinary contributions to the Center for Cognitive Sciences, University of Minnesota

2000 James J. Jenkins Award for extraordinary contributions to the Center for Cognitive Sciences, University of Minnesota