

Colleen M. Parks

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Psychological and Brain Sciences Program
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Education and Professional Experience

Associate Professor (2014 - present)	University of Nevada, Las Vegas
Assistant Professor (2008-2014)	University of Nevada, Las Vegas
Postdoc (2004-2008)	University of California, Davis
Ph.D. (2004)	Georgia Institute of Technology (Psychology)
M.S. (2000)	Georgia Institute of Technology (Psychology)
B.A. (1998, Cum Laude):	Trinity University (Psychology)

Funding

External

National Institute of Mental Health: NRSA Individual Postdoctoral Fellowship (2004-2006). *Familiarity and Perceptual Implicit Memory*.

Internal

Summer Funding, UNLV College of Liberal Arts (2009, 2010, 2011)
Student Summer Faculty Research Award, UNLV (2015, Wei An, Chris Kiley, AmyJane McAuley; 2016, Chris Kiley)
Georgia Gerontology Consortium: Seed Grant (August 2001, \$1,300)
Georgia Institute of Technology: Early Research Development Grant (August 2001, \$1,500)

Honors and Awards

UNLV Open Article Fund (2022)
Psychology Department Excellence in Teaching and Mentoring Award (2021)
Graduate and Professional Student Outstanding Mentor Award (2019)
APA Division 20 Margaret M. Baltes Doctoral Dissertation Award in the Psychology of Aging (July, 2005)
Mike York Award: Graduate Student of the Year in School of Psychology (2003-2004)
Outstanding Teaching Assistant Award (Statistics Lab Instructor & TA, 2003-2004)
National Institute of Aging Traineeship Georgia Institute of Technology (1998 – 2002)

Publications (graduate student, * undergraduate, ‡ chapter)

Parks, C.M., Mohawk, K.D., Werner, L.L.S., Kiley, C. (in press). The time window of reconsolidation: A replication. *Psychonomic Bulletin & Review*.
John, S.E., Ritter, A., Wong, C. & **Parks, C.M.** (2022). The Roles of Executive Functioning, Simple Attention, and Medial Temporal Lobes in Early Learning, Late Learning, and Delayed Recall. *Aging, Neuropsychology and Cognition*, 29, 400-417.

- Kiley, C., & Parks, C. M. (2022). Mechanisms of Memory Updating: State Dependency vs. Reconsolidation. *Journal of Cognition*, 5(1), 7. DOI: <http://doi.org/10.5334/joc.198>
- Kiley, C., & Parks, C.M. (2020). Generalizing reconsolidation: The roles of spatial context and prediction error. *Quarterly Journal of Experimental Psychology*, 73 (11).
- Parks, C.M., & Werner, L.L.S.** (2020). Repetition effects on auditory and visual recognition. *Acta Psychologica*, 204.
- Parks, C.M., & McAuley, A.** (2019). The role of memory strength and task orientation in memory conformity. *Acta Psychologica*, 196, 109-117.
- Borders, A.A., Aly, M., **Parks, C.M.**, & Yonelinas, A.P. (2017). The hippocampus is particularly important for building associations across stimulus domains. *Neuropsychologia*, 99, 335 – 342.
- Parks, C.M.** (2015). Looking for graded recollection: Manipulating the number of details does not affect recollection variance. *Memory & Cognition*, 43, 164 – 169.
- Parks, C.M., & Yonelinas, A.P.** (2015). The importance of unitization for familiarity-based learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 41, 881 – 903.
- Parks, C.M.** (2013). Transfer appropriate processing in recognition memory: perceptual and conceptual effects on recognition memory depends on task demands. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 39, 1280-1286.
- Parks, C. M.,** Iosif, A., Farias, S., Reed, B., Mungas, D., & DeCarli, C. (2011). Executive function mediates effects of white matter hyperintensities on episodic memory. *Neuropsychologia*, 49, 2817-2824.
- Blumenfeld, R. S., **Parks, C.M.**, Yonelinas, A.P., & Ranganath, C.R. (2011). Putting the pieces together: The role of the dorsolateral prefrontal cortex in relational memory encoding. *Journal of Cognitive Neuroscience*, 23(1), 257-265.
- Parks, C. M.,** Murray, L. J., Elfman, K., & Yonelinas, A. P. (2011). Variations in recollection: The effects of complexity on source recognition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 37, 861-873.
- Yonelinas, A. P., **Parks, C.M.**, Koen, J.D., Jorgenson, J., & Mendoza, S.P. (2011). The effects of post-encoding stress on recognition memory: Examining the impact of skydiving in young men and women. *Stress*, 14, 136-144.
- Parks, C. M.,** DeCarli, C., Jacoby, L. L., & Yonelinas, A.P. (2010). Aging effects on recollection and familiarity: The role of white matter hyperintensities. *Aging, Neuropsychology, and Cognition*, 17, 422-438.
- Parks, C. M., & Yonelinas, A. P.** (2009). Evidence of a memory threshold in second-choice recognition responses. *Proceedings of the National Academy of Sciences*, 106, 11515-11519.
- Elfman, K., **Parks, C. M., & Yonelinas, A. P.** (2008). Testing a hippocampal model of source recognition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 34, 752-768.
- ‡**Parks, C. M., & Yonelinas, A. P.** (2008). Theories of Recognition Memory. In H. L. Roediger, III (Ed.), *Cognitive Psychology of Memory. Vol. [2] of Learning and Memory: A Comprehensive Reference*, 4 vols. (J. Byrne Editor), pp. [389-416] Oxford: Elsevier.
- Yonelinas, A. P., & **Parks, C. M.** (2007). Receiver operating characteristics in recognition memory: A review. *Psychological Bulletin*, 133, 800-832.
- Parks, C. M. & Yonelinas, A. P.** (2007). Moving beyond pure signal detection models: Comment on Wixted (2007). *Psychological Review*, 114, 188-202.
- Parks, C.M. & Yonelinas, A. P.** (2007). Postscript. *Psychological Review*, 114, 201-202.
- Parks, C. M.** (2007). The Role of Noncriterial Recollection in Estimating Recollection and Familiarity. *Journal of Memory and Language*, 57, 81-100.
- McCabe, D. P., Smith, A. D., & **Parks, C. M.** (2007). Inadvertent plagiarism in young and older adults: The role of working memory capacity in reducing memory errors. *Memory & Cognition*, 35, 231-241.
- Toth, J. P., & **Parks, C. M.** (2006). Effects of age on estimated familiarity in the process-dissociation procedure: The role of noncriterial recollection. *Memory & Cognition*, 34, 527-537.

- Parks, C. M.**, & Toth, J. P. (2006). Fluency, familiarity, aging, and the illusion of truth. *Aging, Neuropsychology, and Cognition*, *13*, 225-253.
- Matvey, G., Dunlosky, J., Shaw, R. J., **Parks, C.**, & Hertzog, C. (2002). Age-related equivalence and deficit in knowledge updating of cue effectiveness. *Psychology & Aging*, *17*, 589-597.
- Hertel, P. T. & **Parks, C. M.** (2002). Emotional episodes facilitate word recall. *Cognition & Emotion*, *16*, 685-694.
- Salthouse, T.A, Toth, J.P., Daniels, K., **Parks, C.**, Pak, R., Wolbrette, M., & Hocking, K. (2000). Psychometric properties of the Connections Test and its relation to other measures in the context of aging. *Neuropsychology*, *14*, 102-111.

Papers Under Review (graduate student, *undergraduate)

Werner, L.L.S., & **Parks, C.M.** Forgetting distractors in working memory: Decay or inhibition?

Works in Preparation or in Progress (graduate student, *undergraduate)

Parks, C.M., Werner, L.L.S., Snyder, J.S., & McMullin, M. Recollection and familiarity of visual and auditory objects

Werner, L.L.S., & **Parks, C.M.** List length effects on directed forgetting

Werner, L.L.S., & **Parks, C.M.** The role of source memory in forgetting distractors in working memory

Ridgway, W.B., Copeland, D., ... **Parks, C.M.** Effects of stress on eyewitness recall and identification in a haunt

Mohwak, K.D., & **Parks, C.M.** The influence of prediction error strength on reconsolidation

Parks, C.M., Osmanski, A., Mickes, L. Does sleep enhance episodic memory? A replication

Parks, C.M., Osmanski, A., Diana, R., Yonelinas, A.P. Forgetting unitized associations

Soriano Smith, R., & **Parks, C.M.** Forgetting mechanisms in pattern separation and item recognition

Osmanski, A., & **Parks, C.M.** The roles of emotion and sleep in pattern separation

Talks and Posters (graduate student or postdoc, *undergraduate, ^ talk)

Werner, L.L.S., McMullin, M., Snyder, J.S., & Parks, C.M. (2021). Recognition Memory Mechanisms and Attention-Dependent Encoding May Account for the Auditory Disadvantage for Remembering Objects. 62nd Annual Meeting of the Psychonomic Society. (online, November).

Osmanski, A. & Parks, C.M. (2021). Effects of sleep and emotion on pattern separation. 33rd Annual Convention of the Association for Psychological Science, online, May.

Mohawk, K.D., & Parks, C.M. (2021). The Influence of Prediction Error Strength on Reconsolidation. 33rd Annual Convention of the Association for Psychological Science, online, May.

Soriano Smith, R., & Parks, C.M. (2021). Comparing forgetting rates between pattern separation and item recognition. 33rd Annual Convention of the Association for Psychological Science, online, May.

Pelzner, J. & Parks, C.M. (2021). Dissociable Similarity Gradients In A Test Of Melody Recognition. 33rd Annual Convention of the Association for Psychological Science, online, May.

Werner, L.L.S., & Parks, C.M. (2021). Does List Length Affect the Search Set in a Directed Forgetting Task? 33rd Annual Convention of the Association for Psychological Science, online, May.

- John, S. E., Wong, C., & Parks, C.M. (2021). Contribution of Executive Functioning to Verbal Memory Abilities. 49th Annual Conference of the International Neuropsychological Society, Online, February.
- ^Parks, C.M. (2021). How and when memory changes. Invited talk to UNLV Architecture. January 25th.
- ^Ridgway, W. B., Aquino, E. A., *Mann, B. A., Pelzner, J. S., Copeland, D. E., & Parks, C. M. (2021, April 28). The effects of stress on eyewitness recall: A field study. Western Psychological Association 101st Annual Meeting, Virtual.
- Ridgway, W.B., Aquino, E.A., *Mann, B., Pelzner, J.S., Parks, C.M., & Copeland, D.E. (2020). Eyewitness Recall and Identification Accuracy: Effects of Stress in an Extreme Haunt and a Haunted House. Poster presented at the 61st Annual Meeting of the Psychonomic Society (online, November).
- Werner, L.L.S. & Parks, C.M. (2020). Source memory for distractors in a working memory task. Poster presented at the 61st Annual Meeting of the Psychonomic Society (online, November).
- *Tong, T., *Duncan, D., *Silva, J., Werner, L.L.S. & Parks, C.M. (2020). Repetition effects in auditory and visual recognition. Poster presented at the 100th Convention of the Western Psychological Association, online, October.
- Mohawk, K.D., Werner, L.L.S., & Parks, C.M. (2020). The Time Window of Reconsolidation: A Replication. Poster presented at the 100th Convention of the Western Psychological Association, online, October.
- ^Werner, L.L.S., & Parks, C.M. (2020). Individual differences in presenting irrelevant information: A test of working memory models. Talk presented for the 100th Convention of the Western Psychological Association, online, October.
- ^Werner, L.L.S., & Parks, C.M. (2020). The role of source memory in working memory distractors. Presented at the first annual Virtual Working Memory Symposium, June 2, 2020.
- Werner, L.L.S., & Parks, C.M. (2020). Are Distractors Forgotten? The Role of Source Memory in a Working Memory Task. Presented at the 32nd Annual Convention of the Association for Psychological Science, virtual poster event.
- Werner, L.L.S., & Parks, C.M. (2019). Inhibition vs. decay: Using individual differences to test working memory models. Poster given at the 60th Annual Meeting of the Psychonomic Society, Montreal, Quebec.
- Costello, S., Kiley, C., Parks, C.M. (2019). State dependent learning as an alternative account of reconsolidation effects. Poster given at the Ninety-ninth Annual Convention of the Western Psychological Association (Pasadena, CA).
- Werner, L.L.S., & Parks, C.M. (2018). Forgetting distractors: Evidence of inhibition and decay in working memory depends on test type. Poster given at the 59th Annual Meeting of the Psychonomic Society (New Orleans, LA). **Psychonomic Poster Award**
- Werner, L.L.S., & Parks, C.M. (2018). Forgetting distractors: An investigation of competing theories of inhibition and decay in working memory. Poster given at the Ninety-Eighth Annual Convention of the Western Psychological Association (Portland, OR).
- ^Parks, C.M. (2018). Recognition, Recollection, and Reconsolidation. Invited talk at University of Nevada, Reno.
- Kiley, C., & Parks, C.M. (2017). Reconsolidation: Effects of spatial context and expectations. Poster given at the 58th Annual Meeting of the Psychonomic Society (Vancouver, BC, Canada).
- ^Kiley, C., & Parks, C.M. (2017). Reconsolidation: Effects of spatial context and expectations. Talk given at the Ninety-Seventh Annual Convention of the Western Psychological Association (Sacramento, CA).
- McAuley, A., *Smith, E., & Parks, C.M. (2017). Conformity and Task Orientation. Poster presented at the Ninety-Seventh Annual Convention of the Western Psychological Association (Sacramento, CA).
- Kiley, C. & Parks, C.M. (2016). Reconsolidation: Effects of spatial context and expectations. Poster presented at the 28th Annual Convention of the Association for Psychological Science (Chicago, IL).
- McAuley, A., & Parks, C.M. (2016). Effects of task orientation and conformity on recollection and familiarity. Poster presented at the Ninety-Sixth Annual Convention of the Western Psychological Association (Long Beach, CA).
- An, W. & Parks, C.M. (2015). Performance or processing? Effects of levels of processing and divided attention on memory-related eye movements. Poster presented at Ninety-Fifth Annual Convention of the Western Psychological Association (Las Vegas, NV).
- *Hanson, H. & Parks, C.M. (2015). Media Multitasking and Memory: Are frequent multitaskers more or less susceptible to interference from irrelevant information in a memory test? Poster presented at Ninety-Fifth Annual Convention of the Western Psychological Association (Las Vegas, NV).
- McAuley, A. & Parks, C.M. (2015). Memory Conformity in Recognition Memory. Poster presented at Ninety-Fifth Annual Convention of the Western Psychological Association (Las Vegas, NV).
- Picker, C.J. & Parks, C.M. (2015). Retroactive Interference in Recognition Memory: Effects of Mental Effort and Similarity on Recollection and Familiarity. Poster presented at Ninety-Fifth Annual Convention of the Western Psychological Association (Las Vegas, NV).
- Bies-Hernandez, N., Copeland, D.E., & Parks, C.M. (2013). Examining the testing effect using the dual process signal detection model. Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, ON Canada.
- Borders, A., Aly, M., Parks, C.M., Yonelinas, A.P. (2013). Associative recognition in amnesia: Crossing stimulus domain matters, temporal separation does not. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.
- Picker, C.J. & Parks, C.M. (November, 2011). Testing theories of recollection using response bias manipulations. Poster presented at 52nd annual meeting of the Psychonomic Society, Seattle, WA.
- ^Parks, C. M., & Yonelinas, A. P. (November, 2007). Recollection and the second choice procedure. Talk presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, CA. and at 4th annual Bay Area Memory Meeting (BAMM), Berkeley, CA.
- ^Murray, L. J., Parks, C. M., & Yonelinas, A. P. (August, 2007). The effects of complexity on source memory ROCs. Talk presented at 4th annual Bay Area Memory Meeting (BAMM), Berkeley, CA.
- ^Blumenfeld, R. S., Parks, C. M., Yonelinas, A. P., & Ranganath, C. (August, 2007). Neural and behavioral distinctions between item-specific and relational memory encoding. Talk presented at 4th annual Bay Area Memory Meeting (BAMM), Berkeley, CA.
- Blumenfeld, R. S., Parks, C. M., Yonelinas, A. P., & Ranganath, C. (August, 2007). Dissociations between Item-Specific & Relational Encoding. Poster presented at the Cognitive Neuroscience Society Annual Meeting.
- ^Parks, C.M., & Yonelinas, A. P. (November, 2006). Contrasting Dual-Process and Unequal-Variance Signal Detection Models of Recognition Memory. Talk given at the 47th Annual Meeting of the Psychonomic Society, Houston, TX.
- ^Yonelinas, A. P., Eifman, K., Parks, C. M., Bolin, S., & Liao, I. (November, 2006). Testing a hippocampal model of source recollection. Talk given at the 47th Annual Meeting of the Psychonomic Society, Houston, TX.

- Parks, C. M., Murray, L.J., Yonelinas, A. P., & Smith, A. D. (November, 2006). The effects of unitization on item and associative recognition. Poster presented at the 47th Annual Meeting of the Psychonomic Society, Houston, TX.
- ^Parks, C. M., & Yonelinas, A. P. (August, 2006). Dual-process and unequal-variance signal detection models of recognition memory. Talk given at the 3rd annual Bay Area Memory Meeting (BAMM), Stanford, CA.
- ^Blumenfeld, R., Parks, C., Yonelinas, A. & Ranganath, C. (2006). Dissociating item-specific and relational encoding. Talk given at the 3rd annual Bay Area Memory Meeting (BAMM), Stanford, CA.
- Parks, C. M., Murray, L.J., & Yonelinas, A. P. (April, 2006). The effects of unitization on item and associative memory in young and older adults. Poster presented at the Cognitive Aging Conference, Atlanta, GA
- ^Parks, C. M. (August, 2005). Aging and Noncritical Recollection in the Remember-Know and Dual Process Signal Detection Procedures. Talk given at the Second Annual Bay Area Memory Meeting (BAMM), Davis, CA.
- Parks, C. M., Toth, J. P., & Smith, A. D. (November, 2004). Aging and Noncritical Recollection in the Remember-Know and Dual Process Signal Detection Procedures. Poster presented at the 45th Annual Meeting of the Psychonomic Society. Minneapolis, MN.
- Parks, C. M., & Toth, J. P. (May, 2003). Effects of Fluency on Truth Judgments in Young and Older Adults. Poster presented at the American Psychological Society Conference. Atlanta, GA.
- Parks, C. M. (April, 2002). Aging and the Revelation Effect: The Role of Relative Ease of Processing. Poster presented at the Georgia Gerontology Consortium Conference (Athens) and at the Cognitive Aging Conference, Atlanta, GA.
- Toth, J. P., & Parks, C. M. (May, 2000). It's all in the details: Age-related changes in memory for specific and non-criterial attributes of events. Poster presented at the Cognitive Aging Conference. Atlanta, GA.
- Matvey, G., Dunlosky, Shaw, R., G., Hertzog, C., & Parks, C. M. (November, 1999). Do age deficits occur in learning about the relative effectiveness of recall cues? Poster presented at the 40th Annual Meeting of the Psychonomic Society. Los Angeles, CA.

Teaching Experience

Ethics, Professional Issues, and Diversity in Psychological and Brain Sciences (Psy 756) UNLV
 Cognitive Science: An Introduction to the Mind (HON 410) UNLV
 Foundations of Cognitive Psychology (Psy 416/316) UNLV
 Human Memory (Psy 432, in class, hybrid) UNLV
 Psychological Research Methods (Psy 240) UNLV
 Graduate Seminar: Human Memory (Psy 748) UNLV
 Graduate Seminar: Cognitive Science (Psy 718) UNLV
 Psychological Statistics Lab (Georgia Tech)
 Research Methods Lab (Georgia Tech)
 General Psychology (Georgia Tech)

Graduate Student Supervision

Rhiannon Soriano Smith (2020 – present)
 Alanna Osmanski (2020 – present)
 Jackson Pelzner (2020 – present)
 Blake Ridgway (2020 – present)
 Kevin Mohawk (2019 – present)
 Laura Werner (2016 – 2019; Ph.D. 2019)
 Chris Kiley (2013 – 2019; M.A. 2016, Ph.D. 2019)
 Wei An (2010 – 2015; M.A. 2014)
 Caleb Picker (2010 – 2015; M.A. 2015)
 Amy McAuley (student collaboration 2014-2019)
 Nicole Bies-Hernandez (student collaboration 2010-2013)

Post-Doc Supervision

Laura Werner (2019 – 2021)

Member of Graduate Student Committees

Linda Murray (UC Davis), Rhea Watson, Kris Gunawan, Nicole Bies-Hernandez, AmyJane McAuley, Krystal Kamekona, Katie Larson, Sarah Salas, Gabriel Allred, Vanessa Irsik, Matt Rosenthal, Nathan Rudig, Alex Moore,

Michelle Guillaume, Margaret McMullin, Breanne Yerkes, Tony King, Reilly Rowland, Rodica Constantine, Ariana Mitic (high school student; expert advisor on AP Research Capstone), Mathew Steven (high school student), Cassandra Doolittle

Professional Affiliations

The Psychonomic Society: Fellow
 Western Psychological Association
 Women in Cognitive Science
 Spark Society

Ad-hoc Reviewer

Advances in Cognitive Psychology, American Journal of Psychology, Brain Research, Brain Sciences, Cognition, Cognitive Research: Principles and Implications, Consciousness and Cognition, Current Directions in Psychological Science, Frontiers in Psychology, Hippocampus, Journal of Applied Research in Memory & Cognition, Journal of Cognitive Neuroscience, Journal of Cognitive Psychology, Journal of Alzheimer's Disease, Journal of Cognitive Psychology, Journal of Experimental Psychology: Learning, Memory, and Cognition, Journal of Mathematical Psychology, Learning and Memory, Memory, Memory & Cognition, National Science Foundation, Neurobiology of Learning and Memory, Neurocase, Neuropsychologia, Neuroscience Letters, PLOS ONE, Psychological Research, Psychological Review, Psychology and Aging, Psychonomic Bulletin & Review, Psychological Science, Quarterly Journal of Experimental Psychology, Spanish Journal of Psychology

Service

Psychology Department

Associate Graduate Coordinator of the Psychological and Brain Science Ph.D. Program (Fall 2019 – present)
 Faculty in Residence Standards Task Force (2019)
 Experimental Admissions Committee (2008-2010)
 Psychological and Brain Sciences Committee (2008-present)
 Cognitive Area Committee (2008-present)
 Awards Committee (2009-present; chair 2014 - present)
 Personnel Committee (Fall 2018- Spring 2019; 2014 – 2016; chair 2014 – 2015)
 Merit Committee (2014)
 Promotion and Tenure Task Force (Fall 2020 – Spring 2021)
 Outreach Undergraduate Mentor Program Grad Guru Panel (March, 2022)
 Spring Recognition Committee (Spring 2022)

College of Liberal Arts

College of Liberal Arts Promotion and Tenure Committee (2016 – 2018; 2019 – 2021; 2021 – 2023)

University

Faculty Senate Instructional Infrastructure Committee (Fall 2018 – 2020)
 University Grievance Hearing Committee (Summer 2019, chair; Fall 2020)
 Top Tier Innovation Committee (Fall 2020 – Spring 2021)

Professional

Associate Editor for the Quarterly Journal of Experimental Psychology (Fall 2021 – present)
 Consulting Editor for Memory & Cognition (Spring 2020 – present)
 Award Review Committee for the Psychonomic Society (Spring 2018 – 2021)
 Student Mentoring for the Western Psychological Association (2021)

Student Mentoring for Women in Cognitive Science (2021)
Peer Mentoring for the Spark Society (2021)
NSF GRFP Reviewer (2022)