

Ian M. McDonough

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ACADEMIC POSITIONS

Assistant Professor, The University of Alabama (2015 – Present)
Associate, Alabama Research Institute on Aging (2015 – Present)

Postdoctoral Researcher, Center for Vital Longevity, University of Texas at Dallas (2011 – 2015)
Advisor: Dr. Denise C. Park

EDUCATION

Ph.D., University of Chicago (2011)
Concentration: Cognitive Psychology, Minor: Computational Neuroscience
Advisor: Dr. David A. Gallo
Thesis: Autobiographical reality monitoring in aging

M.A., University of Chicago (2008)
Concentration: Cognitive Psychology, Minor: Computational Neuroscience
Advisor: Dr. David A. Gallo
Thesis: The distinctiveness of processing real and imagined events

B.S., University of California, Los Angeles (2005)
Concentration: Cognitive Science, Specialization in Computing
Primary Research Advisor: Dr. Robert A. Bjork

RESEARCH INTERESTS

Episodic memory • Intelligence • Aging • Structure and functional neuroimaging • Dynamic fluctuations of physiological systems • Biomarkers of preclinical Alzheimer's disease • Intervention

RESEARCH GRANTS, AWARDS, AND HONORS

NIH/NIA Deep South Resource Center for Minority Aging Research (RCMAR) Scholar	2016-17
NIH/NIA Butler-Williams Scholar (previously NIA Summer Institute)	2016
NIH/OBSSR Matilda White Riley Early Stage Investigator Honors	2016
Williams Fund International Travel Award, The University of Alabama (\$400)	2016
Collaboration Travel Award, National Chiao Tung University (\$1,500)	2014
Norman H. Anderson Award (\$1,000)	2011
APA Dissertation Research Award (\$1,000)	2010
APF/COGDOP Graduate Research Scholarship in Psychology (\$1,000)	2010
Pre-College Psychology Grant (Co-PI; \$6,400)	2010
Elderhostel K. Patricia Cross Doctoral Research Grant, Top 15	2010
Dewey Lecture Fellowship, University of Chicago (\$5,000)	2010
Doolittle-Harrison Fellowship, University of Chicago (\$500)	2009
Travel Award for Festschrift in Honor of Dr. Robert A. Bjork, UCLA (\$200)	2008
Psychology Graduate Student Travel Awards, University of Chicago	2007-11
Century Fellowship, University of Chicago	2006-11

PEER-REVIEWED ARTICLES

- Ramirez, G., **McDonough, I. M.**, Jin, L. (accepted). Classroom stress promotes motivated forgetting of mathematics knowledge. *Journal of Educational Psychology*.
- McDonough, I. M.**, Bischof, G. N., Kennedy, K. M., Rodrigue, K. M., Farrell, M. E., & Park, D. C. (2016). Fluid and crystallized discrepancy in healthy adults: The relationship with beta-amyloid and cortical thickness. *Neurobiology of Aging*, 46, 68-75.
- Song, Z., **McDonough, I.**, Liu, P., Lu, H., & Park, D. C. (2016). Cortical amyloid burden and age moderate hippocampal activity in cognitively-normal adults. *Neuroimage: Clinical*, 12, 78-84.
- Festini, S. B., **McDonough, I. M.**, & Park, D. C. (2016). The busier the better: greater busyness is associated with better cognition. *Frontiers in Aging Neuroscience*, 8, 98.
- Na, J., **McDonough, I. M.**, Chan, M. Y., & Park, D. C. (2016). Social-class differences in consumer choices and memory of others' preferences in the US: The critical role of an independent vs. interdependent self-construal. *Personality and Social Psychology Bulletin*, 42, 430-443.
- McDonough, I. M.**, Haber, S., Bischof, G. N., & Park, D. C. (2015). The Synapse project: Engagement in mentally challenging activities enhances neural efficiency. *Restorative Neurology and Neuroscience*, 33, 865-882.
- McDonough, I. M.**, Bui, D. C., Friedman, M. C., & Castel, A. D. (2015). Retrieval monitoring is influenced by information value: The interplay between importance and confidence on false memory. *Acta Psychologica*, 161, 7-17.
- McDonough, I. M.**, Cervantes, S. C., Gray, S. J., & Gallo, D. A. (2014). Memory's aging echo: Age-related decline in neural reactivation of perceptual details during recollection. *NeuroImage*, 98, 346-358.
- McDonough, I. M.** & Nashiro, K. (2014). Network complexity as a measure of information processing across resting-state networks: Evidence from the Human Connectome Project. *Frontiers in Human Neuroscience*, 8, 1-15.
- McDonough, I. M.** & Gallo, D. A. (2013). Impaired retrieval monitoring for past and future autobiographical events in older adults. *Psychology & Aging*, 28, 457-466.
- Bui, D. C., Friedman, M. C., **McDonough, I. M.**, & Castel, A. D. (2013). False memory and importance: Can we prioritize encoding without consequence? *Memory & Cognition*, 1-9.
- McDonough, I. M.**, Wong, J. T., & Gallo, D. A. (2013). Age-related differences in prefrontal cortex activity during retrieval monitoring: Testing the compensation and dysfunction accounts. *Cerebral Cortex*, 23, 1049-1060.
- Park, D. C. & **McDonough, I. M.** (2013). The dynamic aging mind: Revelations from functional neuroimaging research. *Perspectives in Psychological Science*, 8, 62-67.
- McDonough, I. M.** & Gallo, D. A. (2012). Illusory expectations can affect retrieval monitoring accuracy. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 38, 391-404.
- Gallo, D. A., Korthauer, L. E., **McDonough, I. M.**, Teshale, S., & Johnson E. L. (2011). Age-related positivity effects and autobiographical memory detail: Evidence from a past/future source memory task. *Memory*, 19, 641-652.
- Scimeca, J. M., **McDonough, I. M.**, & Gallo, D. A. (2011). Quality trumps quantity at reducing memory errors: Implications for retrieval monitoring and mirror effects. *Journal of Memory and Language*, 65, 363-377.
- McDonough, I. M.** & Gallo, D. A. (2010). Separating past and future autobiographical events in memory: Evidence for a reality monitoring asymmetry. *Memory & Cognition*, 38, 3-12.
- Gallo, D. A., **McDonough, I. M.**, & Scimeca, J. M. (2010) Dissociating source memory decisions in prefrontal cortex: fMRI of diagnostic and disqualifying monitoring. *Journal of Cognitive Neuroscience*, 22, 955-969.
- Richland, L. E., & **McDonough, I. M.** (2010). Learning by analogy: Discriminating between potential analogs. *Contemporary Educational Psychology*, 35, 28-43.

McDonough, I. M. & Gallo, D. A. (2008). Autobiographical elaboration reduces memory distortion: Cognitive operations and the distinctiveness heuristic. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 34, 1430-1445.

BOOK CHAPTERS

Allen, R. S., **McDonough, I. M.**, Brake, G., Albright, A., Erickson, S., & Salekin, K. (accepted). Assessment and restoration of competency to be executed: Issues related to dementia and cognitive disability. *Forensic Geropsychology: Practice Essentials*.

NON-PEER REVIEWED PUBLICATIONS

McDonough, I. M. (2016). Use it or lose it: Redefining an old idea. *Today's Geriatric Medicine*, 9, 5-7.

McDonough, I. M. (2010). Investment potential: What graduate schools look for in applicants.

Association for Psychological Science Undergraduate Update.

https://www.psychologicalscience.org/index.php/members/apssc/undergraduate_update/fall-2010/investment-potential-what-graduate-schools-look-for-in-applicants

McDonough, I. M. (2010). Reality monitoring in aging. Association for Psychological Science RiSE-UP online perspectives. <http://www.psychologicalscience.org/apssc/riseup/>

MANUSCRIPTS SUBMITTED

McDonough, I. M. Beta-amyloid and cortical thickness reveal racial disparities in preclinical Alzheimer's disease.

McDonough, I. M., Begolli, K. N., Richland, L. E., & Kornell, N. Limiting feedback increases study time allocation and metacognitive accuracy.

Keshavan, A., Datta, E., **McDonough, I. M.**, Madan, C. R., Jordan, K., & Henry, R. Mindcontrol: A web application for brain segmentation quality control.

Kim, M. W., Lee, S., **McDonough, I. M.**, Mendoza, J. S., & Kim, M. S. The effects of cellphone use and personality characteristics on college students' learning.

Choi, S., Kim, M., & **McDonough, I. M.** Advance care planning and Alzheimer's disease diagnosis.

Lee, S., Kim, M-S., **McDonough, I. M.**, Mendoza, J. S., & Kim, M-H. evaluation of convergent and discriminant validity of obsessive content scale and the nomophobia questionnaire in confirmatory factor analysis.

MANUSCRIPTS IN PREPARATION

McDonough, I. M., Jin, L., & Ramirez, G. Stress and Math Identity Promote Motivated Forgetting.

McDonough, I. M., & Siegel, J. T. The influence of white matter microstructure and network complexity to enhance processing efficiency.

McDonough, I. M., Bischof, G. N., Kennedy, K. M., Rodrigue, K. M., Farrell, M. E., & Park, D. C.

Discrepancies between fluid and crystallized discrepancy predict longitudinal cognitive decline in healthy adults.

Kraemer, K. R., Gallo, D. A., & **McDonough, I. M.** Dependencies within phenomenology of past and future events: An explanation for a reality monitoring asymmetry.

McDougall, G. J., **McDonough, I. M.**, George, S., Lyon, L., Arheart, K., & LaRocca, M. Developing a memory satisfaction scale for community-based older adults.

McDougall, G. J., **McDonough, I. M.**, Scogin, F., & LaRocca, M. Memory training for older adults in the Senior WISE study with mild cognitive impairment.

- Allen, R. S., **McDonough, I. M.**, Dijkstra, K., Carden, K., & McDougall, G. J. Reminiscence and autobiographical memory.
- Festini, S. B., Hertzog, C., **McDonough, I. M.**, & Park, D. C. What makes us busy? Predictors of subjective busyness across the adult lifespan.
- Hatt, C. R., **McDonough, I. M.**, Haber, S., & Park, D. C. Effects of social and cognitive engagement on blood pressure in older adults.

INVITED TALKS

- McDonough, I. M.** (December, 2016). *The effectiveness of mentally challenging activities on the brain: An individual differences perspective*. Talk delivered at monthly webinar for the Office of Behavioral and Social Sciences Research at the National Institutes of Health. Bethesda, Maryland.
- McDonough, I. M.** (September, 2016). *Preventing memory distortion using retrieval expectations*. Talk delivered at monthly Alabama Psychology Exchange Colloquium, The University of Alabama, Birmingham. Birmingham, Alabama.
- McDonough, I. M.** (May, 2016). *Functional and molecular imaging in normal aging: Evidence from lifespan and intervention studies*. Talk delivered at Cologne University Clinic. Cologne, Germany.
- McDonough, I. M.** (March, 2016). *Retrieval expectations affect false memories*. Talk delivered at the Lunch Bunch Series, The University of Southern Mississippi. Hattiesburg, Mississippi.
- McDonough, I. M.** (February, 2016). *Retrieval expectations affect false memories*. Talk delivered at the Child Seminar Series, The University of Alabama. Tuscaloosa, Alabama.
- McDonough, I. M.** (January, 2016). *Cognitive and brain markers for preclinical Alzheimer's disease*. Talk delivered at the Alabama Research Institute on Aging, The University of Alabama. Tuscaloosa, Alabama.
- McDonough, I. M.** (December, 2015). *Age differences in brain functioning during memory formation and retrieval*. Talk delivered at the University of Alabama, Birmingham. Birmingham, Alabama.
- McDonough, I. M.** (September, 2015). *Neural markers of cognitive ability across the adult lifespan*. Talk delivered at The University of Alabama Developmental Contemporary Issues meeting. Tuscaloosa, Alabama.
- McDonough, I. M.** (September, 2015). *Fractionating metamemory: An individual differences approach*. Talk delivered at The University of Alabama Cognitive Contemporary Issues meeting. Tuscaloosa, Alabama.
- McDonough, I. M.** (September, 2015). *The adaptive aging brain: Understanding the neural correlates of episodic memory*. Talk delivered at Mississippi State University. Starkville, Mississippi.
- McDonough, I. M.** (January, 2015). *The adaptive aging brain: Understanding the neural correlates of episodic memory*. Talk delivered at The University of Alabama. Tuscaloosa, Alabama.
- McDonough, I. M.** (August, 2014). *The dynamic aging brain: Declines and reversals*. Talk delivered at National Taiwan University Medical Center. Taipei, Taiwan.
- McDonough, I. M.** (July, 2014). *The dynamic aging brain: Declines and reversals*. Talk delivered at Bangor University. Bangor, Wales, UK.
- McDonough, I. M.** (March, 2014). *Neural markers of cognitive ability across the adult lifespan*. Talk delivered at the Center for Vital Longevity Brown Bag at the University of Texas at Dallas. Dallas, Texas.
- McDonough, I. M.** (September, 2013). *How brain structure and function contribute to cognitive ability across the adult lifespan*. Talk delivered at Cognitive Tea at Rice University. Houston, Texas.
- McDonough, I. M.** (January, 2013). *Individual differences in neural recruitment across the lifespan using multivariate pattern analysis*. Talk delivered at the 3rd Biennial Dallas Aging and Cognition Conference. Dallas, Texas.

- McDonough, I. M.** (October, 2011). *Recollection-based retrieval monitoring in younger and older adults*. Talk delivered at the Center for Vital Longevity Brown Bag at the University of Texas at Dallas. Dallas, Texas.
- McDonough, I. M.** (October, 2010). *Metacognitive illusions enhance retrieval monitoring*. Talk delivered at Cognitive Brown Bag at the University of Illinois at Chicago. Chicago, Illinois.
- McDonough, I. M.**, Cervantes, S. N., & Gallo, D.A. (November, 2009). *Neural correlates of subjective remembering in aging*. Talk delivered at the Brain Imaging Roundtable at the University of Chicago. Chicago, Illinois.
- McDonough, I. M.** & Gallo, D. A. (May, 2007). *Evidence for the distinctiveness heuristic as a retrieval orientation strategy*. Talk delivered at the Brain Imaging Roundtable at the University of Chicago. Chicago, Illinois.

SPOKEN PRESENTATIONS

- McDougall, G. J., George, S. D., **McDonough, I. M.**, Lyon, L., Arheart, K. & LaRocca, M. (November, 2016). *Developing and testing the memory satisfaction scale*. Talk presented at the Gerontological Society of America Annual Meeting 2016. New Orleans, Louisiana.
- Allen, R. S., Crowther, M. R., Ivey, K. C., **McDonough, I. M.**, Parmelee, P. A., & Burgio, L. D. (November, 2016). *Predictors of financial bother among racially diverse dementia caregivers*. Talk presented at the Gerontological Society of America Annual Meeting 2016. New Orleans, Louisiana.
- McDougall, G. J., George, S. D., **McDonough, I. M.**, Lyon, L., LaRocca, M., & Arheart, K. (July, 2016). *Development and validation of the memory complaints questionnaire*. Talk presented at the 2016 Alzheimer's Association International Conference. Toronto, Canada.
- ***McDonough, I. M.**, Bischof, G. N., Kennedy, K. M., Rodrigue, K. M., Farrell, M. E., & Park, D. C. (May, 2016). *Fluid and crystallized discrepancy in healthy adults: The relationship with beta-amyloid and cortical thickness*. Talk presented at the 2nd International Meeting of the Psychonomic Society. Granada, Spain.
- *Park, D. C., **McDonough, I. M.**, Haber, S., & Bischof, G. N. (May, 2016). *Engagement in mentally-effortful activities enhances cognitive function and neural efficiency in older adults*. Talk presented at the 2nd International Meeting of the Psychonomic Society. Granada, Spain.
- Ramirez, G., **McDonough, I. M.**, & Ling J. (May, 2016). *Are stressed out students motivated to forget mathematics after class is over?*. Talk presented at the 2nd International Meeting of the Psychonomic Society. Granada, Spain.
- Chen, X., Festini, S. B., **McDonough, I. M.**, & Park, D. C. (May, 2016). *Cognitive change across the lifespan: Four-year longitudinal findings in the Dallas Lifespan Brain Study (DLBS)*. Talk presented at the 2nd Annual Meeting of the International Psychonomic Society. Granada, Spain.
- Bischof, G. N., Kennedy, K. M., **McDonough, I. M.**, Rodrigue, K. M., Rieck, J., Devous, M. D., & Park, D. C. (November, 2014). *Structural consequences of amyloid burden across the adult lifespan*. Talk delivered at the 44th Annual Meeting of the Society for Neuroscience. Washington, D. C.
- Haber, S., **McDonough, I. M.**, Bischof, G.N. & Park, D. C. (November, 2013). *Novel and demanding leisure activities augment the aging brain: Evidence from the synapse Project*. Talk delivered at 66th Annual Scientific Meeting of the Gerontological Society of America. New Orleans, Louisiana.
- Haber, S., **McDonough, I. M.**, & Park, D. C. (November, 2013). *Sustained cognitive engagement leads to long term enhancements in neural recruitment: Evidence from a lifestyle intervention in older adults*. Talk delivered at 43rd Annual Meeting of the Society for Neuroscience. San Diego, California.
- ***McDonough, I. M.**, Reuter-Lorenz, P. A., Rieck, J. R., Kennedy, K. M., Rodrigue, K. M., Hebrank, A. C., & Park, D. C. (October, 2012). *The relationship between individual differences in cognitive functioning and neural distinctiveness across the lifespan as revealed by multivariate pattern*

- analysis*. Talk delivered at 42nd Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
- ***McDonough, I. M.** & Gallo, D. A. (May, 2011). *Autobiographical reality monitoring in aging: Contributions of recollection and metacognition*. Talk delivered at the 83rd Annual Meeting of the Midwestern Psychological Association. Chicago, Illinois.
- ***McDonough, I. M.** & Gallo, D.A. (April, 2009). *Decoupling the distinctiveness heuristic and memorial distinctiveness*. Talk delivered at the 81st Annual Meeting of the Midwestern Psychological Association. Chicago, Illinois.
- ***McDonough I. M.** (April, 2009). *Separating past and future autobiographical events in memory*. Talk delivered at 2009 Psychfest. Chicago, Illinois.
- Gallo, D. A. & **McDonough, I. M.** (November, 2008). *Reducing false memories in younger and older adults with autobiographical elaboration*. Talk delivered at the 49th Annual Meeting of the Psychonomic Society. Chicago, Illinois.
- ***McDonough, I. M.** & Gallo, D. A. (May, 2008). *Discriminating between real and imagined events*. Talk delivered at the 80th Annual Meeting of the Midwestern Psychological Association. Chicago, Illinois.
- ***McDonough, I. M.** (April, 2008). *Perceptual information helps reduce false recognition errors*. Talk delivered at 2008 Psychfest. Chicago, Illinois.
- ***McDonough, I. M.** & Gallo, D. A. (April, 2007). *The Distinctiveness of autobiographical memory elaboration*. Talk delivered at 2007 Psychfest. Evanston, Illinois.
- Richland, L. E., Holyoak, K. J., & **McDonough, I. M.** (April, 2007). *Improving discrimination between relevant and irrelevant transfer problems through instructional comparisons*. Talk delivered at the 2007 AERA Annual Meeting. Chicago, Illinois.
- **I.M.M. presented*

POSTER PRESENTATIONS

- Lee, S., Kim, M-S, **McDonough, I. M.**, & Kim, M-H. (October, 2017). *Invariant effects of nomophobia on mindfulness, obsessiveness, and student learning*. Poster will be presented at the 2017 Annual Meeting of the Society for Teaching of Psychology. San Antonio, Texas.
- McDonough, I. M.** (January, 2017). *African Americans with elevated beta-amyloid show greater signs of neurodegeneration than Whites*. Poster presented at the 5th Biennial Dallas Aging and Cognition Conference. Dallas, Texas.
- Chen, X., Festini, S. B., **McDonough, I. M.**, Park, D. C., & Hertzog, C. (January, 2015). *Change in processing speed predicts change in other cognitive domains: Four-year longitudinal findings in the Dallas Lifespan Brain Study*. Poster presented at the 5th Biennial Dallas Aging and Cognition Conference. Dallas, Texas.
- McDonough, I. M.**, Mendoza, J. S., Pody, B. C., Reynolds, C., Lee, S., & Kim, M. W. (November, 2016). *Memory self-efficacy creates illusion of control: The effects of distraction and metamemory on learning*. Poster presented at the 57th Annual Meeting of the Psychonomic Society. Boston, Massachusetts.
- Kraemer, K. R., **McDonough, I. M.**, & Gallo, D. A. (November, 2016). *Memory properties and retrieval goals predict reality monitoring for autobiographical events*. Poster presented at the 57th Annual Meeting of the Psychonomic Society. Boston, Massachusetts.
- Enam, T., **McDonough, I. M.**, & Eakin, D. K. (November, 2016). *Level of encoding detail has a differential influence on memory performance and metamemory ratings*. Poster presented at the 57th Annual Meeting of the Psychonomic Society. Boston, Massachusetts.
- McDougall, G. J., **McDonough, I. M.**, Stanton, M. P., & Larocca, M. (2016, October). *Memory training for adults with mild cognitive impairment*. Poster presentation at the annual meeting of the American Academy Nursing. Washington, DC.

- McDonough, I. M.**, Ramirez, G., & Ling J. (May, 2016). *An online research study on motivated forgetting of mathematics*. Poster presented at the 2nd International Meeting of the Psychonomic Society. Granada, Spain.
- Chen, X., Festini, S. B., **McDonough, I. M.**, & Park, D. C. (April, 2016). *Cognitive change across the lifespan: Four-year longitudinal findings in the Dallas Lifespan Brain Study (DLBS)*. Poster presented at the Cognitive Aging Conference 2016. Atlanta, Georgia.
- McDonough, I. M.**, Bischof, G. N., Kennedy, K. M., Rodrigue, K. M., Farrell, M. E., & Park, D. C. (January, 2016). *Fluid and crystallized discrepancy in healthy adults: The relationship with beta-amyloid and cortical thickness*. Poster presented at the 10th Human Amyloid Imaging meeting. Miami, Florida.
- Festini, S. B., **McDonough, I. M.**, & Park, D. C. (November, 2015). *Busyness across the adult lifespan: The busier the better*. Poster presented at the 55th Annual Meeting of the Psychonomic Society. Chicago, Illinois.
- Bischof, G. N., Kennedy, K. M., **McDonough, I. M.**, Rodrigue, K. M., Rieck, J. R., Devous, M. D., & Park, D. C. (January, 2015). *Differential patterns of cortical thickness in individuals with elevated beta-amyloid across the adult lifespan*. Poster presented at the 4th Biennial Dallas Aging and Cognition Conference. Dallas, Texas.
- McDonough, I. M.**, Bischof, G. N., & Park, D. C. (January, 2015). *Structural correlates of cognitive ability differ across the adult lifespan*. Poster presented at the 4th Biennial Dallas Aging and Cognition Conference. Dallas, Texas.
- Bischof, G. N., Kennedy, K. M., **McDonough, I. M.**, Rodrigue, K. M., Rieck, J. R., Devous, M. D., & Park, D. C. (January, 2015). *Differential patterns of cortical thickness in individuals with elevated beta-amyloid across the adult lifespan*. Poster presented at the 9th Human Amyloid Imaging Conference. Miami, Florida.
- McDonough, I. M.**, Lee N. H. & Ramirez, G. (November, 2014). *Prior math familiarity leads to decreased performance for math-anxious individuals*. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Long Beach, California.
- McDonough, I. M.**, Rieck, J. R., Bischof, G. N., Reuter-Lorenz, P. A., & Park, D. C. (July, 2014). *Structural and functional correlates of cognitive ability across the adult lifespan*. Poster presented at the 12th International Conference on Cognitive Neuroscience. Brisbane, Australia.
- McDonough, I. M.**, Gray, S. J., Cervantes, S. N., & Gallo, D. A. (June, 2014). *Rejecting emotional gist: Age-related differences in right DLPFC and false recollection of arousing pictures*. Poster presented at the UTD 2014 Neuroscience Research Conference: Emotional Learning and Memory. Dallas, Texas.
- Hatt, C. R., **McDonough, I. M.**, Haber, S., & Park, D. C. (May, 2014). *Changes in lifestyle engagement reduce blood pressure in older adults*. Poster presented at the 26th Annual Meeting of the Association of Psychological Science. San Francisco, California.
- McDonough, I. M.**, Bui D. C., & Castel, A. D. (April, 2014). *Reducing false memories takes more time with age: Age-related differences in value-directed processing*. Poster presented at the Cognitive Aging Conference 2014. Atlanta, Georgia.
- McDonough, I. M.** & Park, D. C. (April, 2014). *Differences in brain variability across the adult lifespan as a function of cognitive challenge*. Poster presented at the Cognitive Aging Conference 2014. Atlanta, Georgia.
- Haber, S., **McDonough, I. M.**, Chan, M. Y., & Park, D. C. (April, 2014). *Sustained mental challenge can lead to long-term enhancements in cognitive and brain function*. Poster presented at the Cognitive Aging Conference 2014. Atlanta, Georgia.
- Gray, S. J., **McDonough, I. M.**, Cervantes, S. N., & Gallo, D. A. (April, 2014). *Rejecting emotional gist: Age-related differences in right DLPFC and false recollection of arousing pictures*. Poster presented at the 21st Annual Meeting of the Cognitive Neuroscience Society. Boston, Massachusetts.

- McDonough, I. M.**, Bui, D. C., Friedman, M. C., & Castel, A. D. (2013, November). *Initiation and effectiveness of retrieval monitoring depends on information value*. Poster presented at the 53rd Annual Meeting of the Psychonomic Society. Toronto, Canada.
- Chan, M. Y., **McDonough, I. M.**, & Park, D. C. (November, 2013). *A lifespan study of connectivity differences in four large-scale brain networks*. Poster presented at 43rd Annual Meeting of the Society for Neuroscience. San Diego, California.
- McDonough, I. M.** (November, 2013). *Neural complexity predicts cognition across different resting state networks*. Poster presented at 43rd Annual Meeting of the Society for Neuroscience. San Diego, California.
- Haber, S., **McDonough, I. M.**, & Park, D. C. (April, 2013). *Giving your brain a boost: Engaging activities enhance neural recruitment*. Poster presented at the 20th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- Rieck J. R., Beaton, D., **McDonough, I. M.**, Abdi, H., & Park, D. C. (April, 2013). *Dissociating age-related patterns of neural activity along the ventral visual stream during face and object processing*. Poster presented at the 20th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- McDonough, I. M.**, Rieck, J. R., Hebrank, A. C., Reuter-Lorenz, P. A., & Park, D. C. (April, 2013). *Individual differences in cognitive ability differentially affect neural modulation across the lifespan: A multivariate spatio-temporal analysis*. Poster presented at the 20th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- Haber, S., **McDonough, I. M.**, & Park, D. C. (January, 2013). *Engaging activities enhance neural recruitment: Evidence from the synapse project*. Poster presented at the 3rd Biennial Dallas Aging and Cognition Conference. Dallas, Texas.
- Chan, M. Y., **McDonough, I. M.**, & Park, D. C. (January, 2013). *Functional connectivity in the executive function network is associated with personality traits from the NEO PI-R*. Poster presented at the 3rd Biennial Dallas Aging and Cognition Conference. Dallas, Texas.
- McDonough, I.M.**, Kennedy, K.M., Rodrigue, K.M., Hebrank, A.C., & Park, D.C. (November, 2012). *Neural Patterns during Successful Memory Formation across the Lifespan using Multivariate Pattern Analysis*. Poster presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, Minnesota.
- Chan, M. Y., **McDonough, I. M.**, & Park, D. C. (October, 2012). *Functional connectivity in the executive function network is associated with personality traits from the NEO PI-R*. Poster presented at 42nd Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
- McDonough, I.M.**, Kennedy, K.M., Rodrigue, K.M., Hebrank, A.C., & Park, D.C. (April, 2012). *Differences in neural patterns during memory encoding across the lifespan using multi-voxel pattern analysis*. Poster presented at the Cognitive Aging Conference 2012. Atlanta, Georgia.
- McDonough, I.M.**, Hebrank, A.C., Kennedy, K.M., Rodrigue, K.M., & Park, D.C. (April, 2012). *The neural complexity of aging hypothesis: The relationship between BOLD activity, age, and cognition*. Poster presented at the 19th Annual Meeting of the Cognitive Neuroscience Society. Chicago, Illinois.
- Cervantes, S.N., Wong, J.T., **McDonough, I.M.**, Dolan, P.O., Donaldson, D.I., & Gallo, D.A. (April, 2012). *Role of left parahippocampal gyrus in episodic and semantic familiarity*. Poster presented at the 19th Annual Meeting of the Cognitive Neuroscience Society. Chicago, Illinois.
- Bui, D.C., **McDonough, I.M.**, Friedman, M.C., Castel, A.D., & Myerson, J. (November, 2011). *False memory and importance: Can we prioritize without consequence?* Poster presented at the 52nd Annual Meeting of the Psychonomic Society. Seattle, Washington.
- McDonough, I.M.** (October, 2011). *Recollection-based retrieval monitoring in younger and older adults*. Talk delivered at the Center for Vital Longevity Brown Bag at the University of Texas at Dallas. Dallas, Texas.

- McDonough, I.M.,** Wong, J. T. & Gallo, D.A. (April, 2011). *Aging reduces the selectivity of the dorsolateral prefrontal cortex during retrieval monitoring*. Poster presented at the 18th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- Cervantes, S. N., **McDonough, I.M.,** & Gallo, D.A. (April, 2011). *Aging decouples subjective recollection from perceptual reactivation*. Poster presented at the 18th annual meeting of the Cognitive Neuroscience Society. San Francisco, California.
- McDonough, I.M.,** Wong, J. T. & Gallo, D.A. (February, 2011). *Age-related changes in prefrontal activity during retrieval monitoring*. Poster presented at the 2011 Dallas Aging and Cognitive Conference. Dallas, Texas.
- Cervantes, S. N., **McDonough, I.M.,** & Gallo, D.A. (February, 2011). *Age-related changes in visual cortex activity during picture recollection*. Poster presented at the 2011 Dallas Aging and Cognitive Conference. Dallas, Texas.
- McDonough, I.M.** & Gallo, D.A. (November, 2009). *Illusory memory expectations can reduce false recognition errors*. Poster presented at the 50th Annual Meeting of the Psychonomic Society. Boston, Massachusetts.
- Gallo, D. A., **McDonough, I. M.,** & Wong, J. T. (September, 2009). *Neurocognitive effects of aging on distinctive memory retrieval*. Poster presented at the annual American Federation of Aging Research grantees conference. Santa Barbara, California.
- McDonough, I.M.** & Gallo, D.A. (May, 2008). *Relating subjective distinctiveness to source monitoring accuracy*. Poster presented at the 20th Annual Meeting of the Association of Psychological Science. Chicago, Illinois.
- Gallo, D.A., **McDonough, I.M.,** & Scimeca, J.M. (April, 2008). *Prefrontal regions differentially contribute to source monitoring processes*. Poster presented at the 15th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- McDonough, I.M.** & Gallo, D.A. (May, 2007). *The Distinctiveness of autobiographical memory retrieval*. Poster presented at the 19th Annual Meeting of the Association of Psychological Science. Washington, D.C.
- Storm, B.C., Caughey, B.J., Bjork, E.L., **McDonough, I.M.,** Wickens, T.D. (November, 2006). *The Benefit of being forgotten*. Poster presented at the 47th Annual Meeting of the Psychonomic Society. Houston, Texas.
- Richland, L.E. & **McDonough, I.M.** (November, 2006). *Strategies for improving learning through increased support for structural comparisons*. Poster presented at the 47th Annual Meeting of the Psychonomic Society. Houston, Texas.
- McDonough, I.M.,** Storm, B.C., Bjork, R.A., Nostojko, J. (April, 2006). *Retrieval-induced forgetting in phonologically related categories*. Poster presented at the 86th Annual Meeting of the Western Psychological Association. Palm Springs, California.
- McDonough, I.M.,** Caughey, J.B., & Bjork, R. A. (November, 2005). *Retrieval-induced forgetting in relation to gender, study length, and time of day*. Poster presented at the 46th Annual Meeting of the Psychonomic Society. Toronto, Canada.

COMMUNITY PRESENTATIONS

- McDonough, I. M.** (September, 2016). Talk delivered to SOAR (Sharing Opinions and Advice on Research in the Deep South).
- McDonough, I. M.** (December, 2014). *Straddling the boundaries between healthy and pathological aging*. Talk delivered to the Alzheimer's Association. Dallas, Texas.
- McDonough, I. M.** (June, 2014). *Understanding and engaging the aging mind*. Talk delivered to the Northridge Presbyterian Church. Dallas, Texas.
- McDonough, I. M.,** Haber, S., & Nashiro, K. (November, 2013). *Understanding and engaging the aging mind*. Talk delivered to the iACT Summit. Dallas, Texas.

McDonough, I. M. (February, 2012). *The aging mind*. Talk delivered to the Women Educators of Dallas. Richardson, Texas.

McDonough, I. M., & Wong, J. T. (October, 2009). *The aging brain: Remembering over time*. Talk delivered at Montgomery Place Retirement. Chicago, Illinois.

McDonough I. M. (December, 2008). *Getting the grade: Improving test performance*. Talk delivered at the University of Chicago Laboratory School. Chicago, Illinois.

GRADUATE STUDENT SUPERVISION

Tasnuva Enam, PhD Expected 2020

Jessica Mendoza, PhD Expected 2019

Kyle Kraemer, PhD Expected 2018

CURRENT COLLABORATORS

Gerardo Ramirez

Lindsey E. Richland & David A. Gallo

Deborah Eakin

Lawrence Patihis

Michael Crowe & Richard Kennedy

University of California, Los Angeles

University of Chicago

Mississippi State University

University of Southern Mississippi

University of Alabama at Birmingham

PROFESSIONAL MEMBERSHIPS

American Psychological Association • Association for Psychological Science • Cognitive Neuroscience Society • Midwestern Psychological Association • Society for Neuroscience • Psychonomic Society

AD-HOC REVIEWER

Psychology Journals

Journal of Memory and Language (IF: 4.24) • *Learning & Memory* (IF: 4.38) • *Memory* (IF: 1.69) • *Quarterly Journal of Experimental Psychology* (IF: 2.13) • *Cognition* (IF: 3.63) • *Applied Cognitive Psychology* (IF: 1.32) • *PLOS One* (IF: 3.23) • *Acta Psychologica* (IF: 2.25) • *Advances in Cognitive Psychology* (IF: 1.65) • *Identity* • *Journal of Cognitive Psychology*

Neuroscience/Medical Journals

Imaging and Behavior (IF: 4.60) • *Frontiers in Neuroscience* (IF: 3.66) • *Journal of Visualized Experiments* (IF: 1.33) • *NeuroImage* (IF: 6.36) • *Neuropsychologia* (IF: 3.30) • *Cerebral Cortex* (IF: 8.67) • *Journal of Cognitive Neuroscience* (IF: 5.36) • *Cognitive, Affective, and Behavioral Neuroscience* (IF: 3.29) • *Brain and Cognition* (IF: 2.82) • *Psychosomatic Medicine* (IF: 3.97) • *Human Brain Mapping* (IF: 5.97) • *Brain Informatics* • *Psychophysiology* (IF: 3.07) • *Cortex*

Aging Journals

Experimental Aging Research (IF: 0.92) • *Aging, Neuropsychology and Cognition* (IF: 1.80) • *Gerontology* (IF: 3.06) • *Journal of Gerontology: Psychological Sciences* (IF: 3.23) • *Neurobiology of Aging* (5.01) • *Gerontologist* (IF: 3.17)

PROFESSIONAL ACTIVITIES

NIH Health Disparities Research Training Program

Neurohackweek, Attendee

2016-2017

2016

Statistical Modeling Workshop, North Carolina State University, Attendee	2014
Neurometrika: SPM8 fMRI Workshop, Attendee	2010
APSSC Editorial, Writer	2010
Ad-hoc APSSC reviewer, Student Research Award	2010
Reviewer, Chicago Graduate Student Research Symposium	2010
Judge, Chicago Area Undergraduate Research Symposium	2009
Ad-hoc APSSC reviewer, RiSE-UP Research Award	2009
Ad-hoc APSSC reviewer, Student Research Award	2009
Member, APS RiSE-UP Aging Committee	2008-09

UNIVERSITY SERVICE

Faculty Search Committee, College of Educational Neuroscience Program	2016-2017
Creativity Committee, Psychology Department	2016+
Research Overhead Committee, Psychology Department	2016+
Training workshop to analyze brain structure at The University of Alabama	2016
CAFÉ at UA, Member	2015+
Alabama Research Institute on Aging, Associate	2015+
Outstanding Teaching Student Award Committee	2015
UA Publicity Committee, Psychology Department	2015+
UA Website Subcommittee, Psychology Department	2015+
UTD training to use brain structure analysis program using Freesurfer	2014
Organizing and overseeing longitudinal study initiation	2012+
Masters Student Supervisor, UT Dallas	2011+
UTD tutorial for stimulus presentation using Cogent	2011
Laboratory Research Advisor and Mentor for Masters Students	2010-11
Undergraduate Honor's Thesis Mentor	2010-11
Member, Psych Grad Student Org, Career Development Committee	2009-10
Fundraising, Memory Walk 2009 (Alzheimer's Association)	2009-10
Psych Grad Student Org, Graduate Student Mentor	2008-09
Chair, Psych Grad Student Org, Research and Travel Grant Committee	2008-09
Member, Psych Grad Student Org, Research and Travel Grant Comm.	2007-10
Mentor for McNair Scholar	2007
Cognitive Brown Bag Graduate Student Coordinator	2006-08
Supervise Undergraduate Research	2006+

TEACHING

Undergrad Lecturer, <i>Introduction to Psychology</i>	University of Alabama	2016+
Undergrad Lecturer, <i>Cognitive Neuroscience of Episodic Mem</i>	University of Alabama	2016+
Grad Lecturer, <i>Cognitive Neuroscience of Episodic Memory</i>	University of Alabama	2015
Guest Lecturer, <i>Philosophy of Medicine</i> , Tom Boyett	UT Dallas	2012
Lecturer, <i>Psychology Research Seminar</i>	H-F High School	2011
Lecturer, <i>Cognitive Psychology</i>	University of Chicago	2011
Lecturer, <i>Mind</i>	University of Chicago	2010
Assistant, <i>Negotiations</i> , Boaz Keysar	University of Chicago	2010
Assistant, <i>Research Methods</i> , Ece Demir	University of Chicago	2010
Lecturer, <i>Mind</i>	University of Chicago	2009
Guest Lecturer, <i>Learning & Memory</i> , Howard Nusbaum	University of Chicago	2009
Assistant, <i>Decision Making</i> , Boaz Keysar	University of Chicago	2009

Assistant, <i>Mind</i> , John Cacioppo	University of Chicago	2009
Assistant, <i>Mind</i> , Brian Prendergast	University of Chicago	2009
Assistant, <i>Learning & Memory</i> , Howard Nusbaum	University of Chicago	2009
Assistant, <i>Mind</i> , Boaz Keysar	University of Chicago	2008
Assistant, <i>Research Methods</i> , Stefanie Foraker	University of Chicago	2008

PEDAGOGY

Active Learning Initiative	Fall	2015
How Do Students Learn Workshop	Summer	2009
Integration of Teaching and Learning Conference	Spring	2009
Academic and Professional Writing	Fall	2008
Workshop on Teaching in the College	Fall	2008
Seminar on Course Design	Summer	2007

TECHNICAL AND SOFTWARE SKILLS

Statistics: SPSS, SAS, R

Programming: Matlab, R, Perl, PHP, HTML, Python

Stimulus Presentation: Psyscope X, Cogent2000, Psychtoolbox, Collector

Neuroimaging: SPM5-12, Freesurfer, FSL, ART, PLS, VBM, SVM, REST, AFNI

Neuroimaging modalities: sMRI, fMRI, DTI, PET