

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Denise C. Park		POSITION TITLE Professor of Brain and Behavioral Sciences T. Boone Pickens Distinguished Chair of Brain Science	
eRA COMMONS USER NAME (credential, e.g., agency login) DENISEP			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Albion College, Albion, Michigan	B.A.	1973	Psychology
State University of New York at Albany	Ph.D.	1977	Psychology

A. Positions and Honors

- 1977-1985 Assistant Professor (1977-1983) and Associate Professor (1983-85) of Psychology University of North Carolina at Charlotte
- 1985-1995 Associate (1985-89) and Professor (1989-1995) of Psychology University of Georgia
- 1995-2002 Professor of Psychology & Senior Research Scientist at Institute for Social Research The University of Michigan
- 2002-Present Professor of Psychology and Professor, Beckman Institute The University of Illinois Urbana-Champaign.
- July 15-Present Research Scientist, The University of Texas at Dallas
- January 1, 2008 Regents Professor and T. Boone Pickens Distinguished Chair of Clinical Brain Science, The University of Texas at Dallas.

Fellow, American Association for the Advancement of Science
 Distinguished Contribution Award to Psychology of Aging, Division 20, Adult Development and Aging, American Psychological Association, 2002
 American Psychological Society, Board of Directors, 2002-2006
 Chair, Board of Scientific Affairs, The American Psychological Association, 1997-2000
 Chair, Mental Disorders of Aging NIMH Study Section,
 Distinguished Behavioral Science Researcher (Bill Owens Award), The University of Georgia, 1995
 Distinguished Alumni Award, Albion College, 1997
 Faculty Research Award, College of Literature, Sciences & Arts, University of Michigan, 1998
 Chair, Biobehavioral Processes-4 NIH Study Section, 2003-2005; Member 2001-2002
 Associate Editor, The American Psychologist, 1995-present
 Associate Editor, Journal of Gerontology: Psychological Sciences, 1995-1997
 President, Division 20, Adult Development and Aging, American Psychological Association, 1991-1992
 Council of Representatives, American Psychological Association (1994-1996)
 Chair, APS Human Capitol Initiative: "Vitality for Life:Productive Aging & Psychological Research."
 Fellow of numerous professional organizations
 Phi Beta Kappa

B. Selected Publications

- Park, D.C., Hertzog, C., Leventhal, H., Morrell, R.W., Leventhal, E., Birchmore, D., Martin, M., & Bennett, J. (1999). Medication adherence in rheumatoid arthritis patients: Older is wiser. Journal of American Geriatrics Society, 47, 172-183.
- Park, D.C., Nisbett,R., & Hedden,T. (1999). Aging, culture, and cognition. Journal of Gerontology, Psychological sciences, 54B, 75-84.
- Frieske, D.A., & Park, D.C. (1999). Memory for news in young and old adults. Psychology and Aging, 14, 90-98.
- Park, D.C. (1999). Acts of Will? American Psychologist, 54.

- Park, D.C. (1999). Aging and the controlled and automatic processing of medical information and medical intentions. In Park, D.C., Morrell, R.W., & Shifren, K. (Eds.), *Processing of Medical Information in Aging Patients: Cognitive and Human Factors Perspectives*, 3-22, Mahwah, New Jersey: Lawrence Erlbaum Associates.
- Park, D.C., Morrell, R.W., & Shifren, K. (Eds.) (1999). Processing of Medical Information in Aging Patients: Cognitive and Human Factors Perspectives. Mahwah, NJ: Lawrence Erlbaum Associates.
- Zwahr, M.D., Park, D.C., & Shifren, K. (1999). Judgments about estrogen replacement therapy: The role of age, cognitive abilities and beliefs. Psychology and Aging, 14, 179-191.
- Watkins, K.W., Shifren, K., Park, D.C., & Morrell, R.W. (1999). Age, pain, and coping with rheumatoid arthritis. Pain, 217-228.
- Shifren, K., Park, D.C., Bennett, J.M., & Morrell, R.W. (1999). Do cognitive processes predict mental health in individuals with rheumatoid arthritis? Journal of Behavioral Medicine, 22, 529-547.
- Glass, J., Park, D.C., & Zucker, R. (1999). Alcohol, aging and cognition: A review of evidence for shared or independent impairments. Aging, Neuropsychology, and Cognition, 6, 157-178.
- Hertzog, C., Park, D.C., Morrell, R.W., & Martin, M. (2000). Ask and ye shall receive: Behavioral specificity in the accuracy of subjective memory complaints. Applied Cognitive Psychology, 14, 257-275.
- Park, D.C., & Schwarz, N. (Eds.) (2000). Cognitive Aging: A Primer. Philadelphia: Psychology Press.
- Chasteen, A.L., Park, D.C., & Schwarz, N. (2001). Implementation intentions and facilitation of prospective memory. Psychological Sciences, 6, 457-461.
- Hedden, T. & Park, D.C. (2001). Aging and interference in verbal working memory. Psychology and Aging, 16, 666-681.
- Park, D.C. & Hedden, T. (2001). Working memory and aging. In Naveh-Benjamin, M., Moscovitch, M., & Roediger, H.L. (Eds.), Perspectives on Human Memory and Cognitive Aging: Essays in honour of Fergus Craik, 148-160, East Sussex, UK: Psychology Press.
- Park, D.C., Polk, T., Mikels, J., Taylor, S.F., & Marshuetz, C. (2001). Cerebral Aging: Integration of brain and behavioral models of cognitive function. Dialogues in Clinical Neuroscience, 3, 151-165.
- Ybarra, O., Chan, E., & Park, D.C. (2001). Young and old adults concerns about morality and competence. Motivation and Emotion, 25, 85-100.
- Brown, S.C., Glass, J.M., & Park, D.C. (2002). The relationship of pain and depression to cognitive function in rheumatoid arthritis patients. Pain, 96, 279-284.
- Chasteen, A.L., Schwarz, N., & Park, D.C. (2002). The activation of aging stereotypes in younger and older adults. Journal of Gerontology: Psychological Sciences, Vol. 57B, 6, 540-547.
- Hedden, T., Park, D.C., Nisbett, R., & Lijun, J. (2002). Cultural variation in verbal versus spatial neuropsychological function across the lifespan. Neuropsychology, 16, 65-73.
- Park, D.C. (2002). Judging meaning improves function in the aging brain. Trends in Cognitive Sciences, 6, 227-229.
- Park, D.C., & Gutchess, A. (2002). Aging, cognition, and culture: A neuroscientific perspective. Neuroscience and Biobehavioral Reviews, Vol. 26, 7, 859-867.
- Park, D.C., Lautenschlager, G., Hedden, T., Davidson, N., Smith, A.D., & Smith, P. (2002). Models of visuospatial and verbal memory across the adult life span. Psychology and Aging, 17, 2, 299-320.
- Ybarra, O., & Park, D.C. (2002). Disconfirmation of person expectations by older and younger adults: Implications for social vigilance. Journal of Gerontology: Psychological Sciences, Vol. 57B, 5, 435-443.
- Brown, S.C., & Park, D.C. (2003). Theoretical models of cognitive aging and implications for translational research. The Gerontologist, Vol 43, Special Issue I, 57-67.
- Hedden, T., & Park, D.C. (2003). Contributions of source and inhibitory mechanisms to age-related retroactive interference in verbal working memory. Journal of Experimental Psychology: General, Vol 132, 93-112.
- Park, D.C. & Skurnik, I. (2003). Aging, Cognition, and Patient Errors in Following Medical Instructions. In Bogner, M. (Eds.), Misadventures in Health Care, 165-181, New Jersey: Lawrence Erlbaum.
- Park, D.C., Welsh, R.C., Marshuetz, C., Gutchess, A.H., Mikels, J., Polk, T.A., Noll, D.C., & Taylor, S.F. (2003). Working memory for complex scenes: Age differences in frontal and hippocampal activations. Journal of Cognitive Neuroscience, 15:8, 1122-1134.

- Goh, J.O.S., Siong, S.C., Park, D.C., Gutchess, A., Hebrank, A., and Chee, M.W.L. (2004). Cortical Areas Involved in Object, Background and Object-Background Processing Revealed with fMR-A. Journal of Neuroscience, 24, 10223-10228.
- Park, D.C. & Minear, M. (2004). Cognitive aging: New directions for old theories. In Dixon, R.A., Backman, L., Nilsson, L.G. (Eds.), New Frontiers in Cognitive Aging. Oxford: Oxford University Press.
- Park, D.C., Polk, T., Park, P.R., Minear, M., Savage, A., and Smith, M. (2004). Aging reduces neural specialization in ventral visual cortex. Proc. of the National Academy of Sciences of the United States of America, Vol. 101, 13091-13095.
- Yoon, C., Feinberg, F., Hu, P., Gutchess, A.H., Hedden, T., Chen, H.Y., Jing, Q., Cui, Y., and Park, D.C. (2004). Category Norms as a Function of Culture and Age: Comparisons of Item Responses to 105 Categories by American and Chinese Adults. Psychology and Aging, Vol. 19, 3, 379-393.
- Cabeza, R., Nyberg, L., & Park, D. (2005). Cognitive neuroscience of aging: emergence of a new discipline. In Cabeza, R., Nyberg, L., & Park, D (Eds.), Cognitive Neuroscience of Aging: Linking Cognitive and Cerebral Aging. New York: Oxford UP.
- Gutchess, A.H., Welsh, R.C., Hedden, T., Bangert, A., Minear, M., Liu, L.L., and Park, D.C. (2005). Aging and the Neural Correlates of Successful Picture Encoding: Frontal Activations Compensate for Decreased Medial Temporal Activity. Journal of Cognitive Neuroscience, 17:1, 84-96.
- Park, D.C., & Gutchess, A.H. (2005). Long-Term Memory and Aging: A cognitive neuroscience perspective. In R. Cabeza, L. Nyberg, & D.C. Park (Eds.), Cognitive Neuroscience of Aging: Linking Cognitive and Cerebral Aging, 218-245. New York: Oxford University Press
- Chee M.W.L., Goh J.O.S., Venkatraman V., Tan J.C., Gutchess A., Sutton B., Hebrank A., Leshikar E., Park D. (2006). Age-related changes in object processing and contextual binding revealed using fMR adaptation. Journal of Cognitive Neuroscience, 18:4, 495-507.
- Gutchess, A., Welsh, R., Bodoroglu, A., & Park, D.C. (2006). Cultural differences in neural function associated with object processing. Cognitive, Affective and Behavioral Neuroscience, 6(2):102-109
- Goh, J.,O., Chee, M.W., Tan, J.C., Venkatraman, V., Hebrank, A., Leshikar, E., Jenkins, L., Sutton, B.P., Gutchess, A.H., & Park, D.C. (2006). Age and culture modulate object processing and object-scene binding in the ventral visual area. Cognitive, Affective, and Behavioral Neuroscience 1, 44-52.
- Gutchess, A. H. & Park, D. C. (2006). fMRI environment can impair memory performance in young and elderly adults. Brain Research, 1099(1), 133-140.
- Park, D.C. & Gutchess, A. (2006) . The cognitive neuroscience of aging and culture. Current Directions in Psychological Science, 15, 105-108.
- Payer, D., Marshuetz, C, Sutton, B., Hebrank, A, Welsh, R., Park, D.C. (2006). Decreased specialization in older adults on a working memory task. Neuroreport, 17, 487-482.
- Goh, J.,O., Chee, M.W., Tan, J.C., Venkatraman, V., Hebrank, A., Leshikar, E., Jenkins, L., Sutton, B.P., Gutchess, A.H., & Park, D.C. (2007). Age and culture modulate object processing and object-scene binding in the ventral visual area. Cognitive, Affective, and Behavioral Neuroscience 7, 44-52.
- Gutchess, A. H., Hebrank, A., Sutton, B. P., Leshikar, E., Chee, M. L. W., Tan, J. C., Goh, J. O. S., Park, D. C. (2007). Contextual interference in recognition memory with age. NeuroImage 35,3, 1338-1347.
- Polk, T., Park, J., Smith, M., Park, D.C. (2007). Nature versus nurture in ventral visual cortex: A functional magnetic resonance imaging study of twins. 27, Journal of Neuroscience, 13921-13925.
- Park, D.C. (2007). Eating disorders: A call to arms. American Psychologist Vol. 62, 3, 158.
- Park, D.C., Gutchess, A.H., Meade, M.L., & Stine-Morrow, E. (2007). Improving cognitive function in older adults: Nontraditional approaches. Journals of Gerontology, 62B, 45-52.
- Park, D.C. & Liu, L. (2007). Medical Adherence and Aging: Social and Cognitive Perspectives. Washington, D.C.: American Psychological Association.
- Stine-Morrow, E. A. L., Parisi, J., Morrow, D. G., Greene, J., & Park, D.C. (2007). An engagement model of cognitive optimization through adulthood. Journals of Gerontology 62B, 62-69.
- Knauper, B., Schwarz, N., Park, D., & Fritsch, A. (2007). The perils of interpreting age differences in attitude reports: Question order effects decrease with age. Journal of Official Statistics, 23, 515-528.
- Wilson, A.H. & Park, D.C. (2007). A case for clarity in the writing of health statements. Patient Education and Counseling, 72, 330-335.

- Wilson, E. & Park, D.C.(2008) Prospective memory and health behaviors: Context trumps cognition. IN Kliegel, M., McDaniel, M.A. & Einstein, G.O. (Eds). Prospective Memory: Cognitive, Neuroscience, Developmental, and Applied Perspectives. New York: Lawrence Erlbaum.
- Park, D.C. (2008). Developing a cultural cognitive neuroscience of aging. In Hofer, S. & Alwin, D.F. (Eds.). Handbook of Cognitive Aging. New York: Sage.
- Sutton, B.P., Goh, J., Hebrank, A., Welsh, R.C., Chee, M.W., & Park, D.C. (2008). Investigation and validation of intersite fMRI studies using the same imaging hardware. Journal of Magnetic Resonance Imaging, 28, 21-28.
- Park, D.C. & Reuter-Lorenz, P. (2009) The adaptive brain: Aging and neurocognitive scaffolding. Annual Review of Psychology, 60, 173-196.
- Stine-Morrow, Parisi, J.M. and Morrow, D.G. (In press). The effects of an engaged lifestyle on cognitive vitality: A field experiment. Psychology and Aging.
- Park, D.C. (In press). Publishing in the psychological sciences: Enhancing journal impact while decreasing author fatigue. Perspectives in Psychological Science.
- Gutchess, A.H. & Park, D.C. (In press). Effects of aging on associative memory for related and unrelated pictures. European Journal of Cognitive Psychology.
- Park, D.C. & Goh, J. (In press). Healthy aging: A neurocognitive perspective. In Cacioppo, J. & Bentson, G. (Eds.). Handbook of Cognitive Neuroscience. New York: Oxford.

C. Research Support

ONGOING

AG006265-21 (Park), PI
NIH/NIA

09/01/06 – 06/30/11

Neuroimaging of dedifferentiation and memory across the lifespan.

This project integrates volumetric measures of brain structure and functional measures of neural laterality and dedifferentiation to predict both behavioral and neural outcomes in a lifespan sample.

AG015047-07 (Park),PI
NIH/NIA

09/15/05 – 6/30/2010

Cognitive Neuroscience of Aging, Culture and Cognition.

This project examines the interplay between neurobiology and environment by studying the impact of aging and culture jointly on neural activation patterns using functional magnetic resonance imaging

AG023101-04 (Park),PI
NIH/NIA

09/30/03 – 08/31/09

Center for Healthy Minds

The Center for Healthy Minds is focused on developing interventions, broadly defined, that improve behavioral and neural function in older adults.

AG026589-01A2 (Park),PI
NIH/NIA

12/01/06 – 11/30/11

Active Interventions for the Aging Mind

This project is an intervention trial that assess the impact of a social and cognitive engagement for a 14 week period, 20 hours a week on neurocognitive function.

COMPLETED IN LAST THREE YEARS

Beckman Institute Innovation Grant (Wang PI)
University of Illinois

01/01/06 – 12/31/07.

Development of novel methods for neuroimaging analysis with use of a cross-cultural database.