

**Angela Gutchess, Ph.D.**

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**Education:**

Ph.D in Psychology, University of Michigan, Cognition & Perception area, 2004  
Certificate in Cognitive Science and Cognitive Neuroscience  
Dissertation: *The Neural Correlates of Picture Encoding: fMRI Investigations of Age and Cross-Cultural Differences*

M.A. in Psychology, University of Michigan, 2002

B.A. in Psychology & English; B.S. in English Education  
Summa Cum Laude with Distinction, Boston University, 1998

**Academic Employment:**

Postdoctoral research fellow

Harvard University/Massachusetts General Hospital, July, 2005-present (mentor: Dr. Schacter)  
Beckman Institute, University of Illinois at Urbana-Champaign, 2004-2005 (mentor: Dr. Park)

(upcoming) Assistant Professor

Brandeis University, Department of Psychology (to begin July, 2007)

**Honors:**

Phi Beta Kappa

Sigma Xi

Psi Chi

Golden Key Honor Society

Departmental Associate, University of Michigan (elected student representative for faculty meetings)

**Awards:**

APA Dissertation Research Award, 2004

APA Division of Adult Development and Aging Award for Outstanding Doctoral Research, 2004

Psi Chi / Erlbaum Award in Cognitive Science, 2004

Rackham One-Term Dissertation Fellowship, 2004

Michigan Teaching Fellow title awarded upon selection to Preparing Future Faculty Program, 2004

National Science Foundation Fellowship Honorable Mention, 1999

APA Student Travel Award, 2002

Boston University Trustee Scholarship (full tuition merit scholarship), 1994-1998

### **Travel Awards for Additional Training:**

HealthEmotions Research Institute Symposium Scholar, 2006, “Order and Disorder in the Social Brain”, Wisconsin Symposium on Emotion  
John Merck Summer Institute on the Biology of Developmental Disorders, 2006, Princeton University.  
HealthEmotions Research Institute Symposium Fellow, 2005, “Genetic & Molecular Bases of Normal and Abnormal Emotional Processes”, Wisconsin Symposium on Emotion  
Vivian Smith Advanced Studies Summer Institute of the International Neuropsychological Society, 2004, “The Human Frontal Lobes”, Xylocastro, Greece  
Summer Institute in Cognitive Neuroscience, 2002, Dartmouth College

### **Grants and Funding:**

National Institute on Aging, Ruth L. Kirchstein National Research Service Award, “Age-related Prefrontal Compensation in Long-term Memory”, 2005-2008  
National Institute on Aging, R01 grant, “Cognitive Neuroscience of Aging, Culture and Cognition”, co-Investigator (PI: Denise Park), 2005-2010  
Supplementary Research Funding, University of Michigan UROP program, 2004-2005  
Seed grant, Center on Aging and Cognition: Health, Education, and Training (NIA), 2001  
Sigma Xi Grant-in-Aid of Research, 1998  
Boston University UROP Funded Research Opportunity Grant & Travel grant, 1998

### **Research Interests**

Contributions of context, including social and cultural contexts, to memory with age  
Effects of aging on long-term memory as measured by behavioral and neuroimaging methods  
Differences in prefrontal - medial temporal interactions as a function of age and culture

### **Publications:**

#### **Peer-Reviewed Journals**

- Gutchess, A.H., Ieui, Y., & Federmeier, K.D. (in press). Event-related potentials reveal age differences in the recognition and successful encoding of scenes. *Journal of Cognitive Neuroscience*.
- Park, D.C., Gutchess, A.H., Meade, M.L., & Stine-Morrow, E.A.L. (in press). Improving cognitive function in older adults: Nontraditional approaches. *Journal of Gerontology: Psychological Sciences*.
- Goh, J.O., Chee, M. W., Tan, J.C., Venkatraman, V., Hebrank, A., Leshikar, E.D., Jenkins, L., Sutton, B.P., Gutchess, A. H., & Park, D.C. (in press). Age and culture modulate object processing and object-scene binding in the ventral visual area. *Cognitive, Affective, and Behavioral Neuroscience*.
- Gutchess, A.H., Yoon, C., Luo, T., Feinberg, F., Hedden, T., Jing, Q., Nisbett, R.E. & Park, D.C. (2006). Categorical organization in free recall across culture and age. *Gerontology*, 52(5), 314-323.
- Yoon, C., Feinberg, F., & Gutchess, A. H. (2006). Pictorial naming specificity across ages and cultures: A latent class analysis of picture norms for younger and older Americans and Chinese. *Gerontology*, 52(5), 295-305.

- Gutchess, A.H., Welsh, R.C., Boduroglu, A. & Park, D.C. (2006). Cross-cultural differences in the neural correlates of picture encoding. *Cognitive, Affective, and Behavioral Neuroscience*, 6(2), 102-109.
- 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.H. (2006). The cognitive neuroscience of aging and culture. *Current Directions in Psychological Science*, 15(3), 105-108.
- 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.
- Yoon, C., Gutchess, A.H., Feinberg, F., & Polk, T.A. (2006). Comparing the structures of brand and human personality: A functional magnetic resonance imaging study. *Journal of Consumer Research*, 33, 31-40.
- Yoon, C., Laurent, G., Fung, H., Gonzalez, R., Gutchess, A. H., Hedden, T., Lambert-Pandraud, R., Mather, M., Park, D. C., Peters, E., Skurnik, I. (2005). Cognition, persuasion and decision making in older consumers. *Marketing Letters*, 16(3-4), 429-441.
- Gutchess, A.H., Welsh, R.C., Hedden, T., Bangert, A., Minear, M., Liu, L., & 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.
- Goh, J.O.S. Siong, S.C., Park, D.C., Gutchess, A.H., Hebrank, A., & Chee, M.W.L. (2004). Cortical areas involved in object, background and object-background processing revealed with functional magnetic resonance adaptation. *Journal of Neuroscience*, 24(45), 10223-10228.
- Yoon, C., Feinberg, F., Luo, T., Hedden, T., Gutchess, A.H., Chen, H., Mikels, J., Jiao, S., & Park, D. C. (2004). A cross-culturally standardized set of pictures for younger and older adults: American and Chinese norms for name agreement, concept agreement, and familiarity. *Behavior Research Methods, Instruments, and Computers*, 36(4), 639-649.
- Yoon, C., Feinberg, F., Hu, P., Gutchess, A.H, Hedden, T., Chen, H., Jing, Q., Cui, Y. & 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*, 19(3), 379-393.
- 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.
- Park, D.C. & Gutchess, A.H. (2002). Aging, cognition, and culture: A neuroscientific perspective. *Neuroscience and Biobehavioral Reviews*, 26(7), 859-867.

### **Book Chapters**

- Gutchess, A.H. (in press). Aging, culture, and cognition. In D.C. Park & N. Schwarz (Eds.), *Cognitive Aging: A Primer* (2<sup>nd</sup> ed.). Philadelphia, PA: Psychology Press.

Gutchess, A.H. (2006). Aging, compensation, and the frontal lobes. In S. Ballesteros (Ed.), *Age, Cognition and Neuroscience* (pp. 93-110). Madrid: Universidad Nacional de Educación a Distancia, Varia.

Park, D.C. & Gutchess, A.H. (2004). 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* (pp. 218-245). New York, Oxford Press.

Park, D.C. & Gutchess, A.H. (2000). Cognitive aging and everyday life. In D.C. Park & N. Schwarz (Eds.), *Cognitive Aging: A Primer* (pp. 217-232). Philadelphia, PA: Psychology Press.

#### **Manuscripts under review and in revision:**

Gutchess, A.H., Hebrank, A., Sutton, B., Leshikar, E., Chee, M.W.L., Tan, J.C., Goh, J.O.S., & Park, D.C. (2006). Contextual interference in recognition memory with age.

Gutchess, A.H., Kensinger, E.A., Yoon, C., & Schacter, D.L. (2006). Aging and the self-reference effect in memory.

#### **Manuscripts in preparation:**

Gutchess, A.H., Kensinger, E.A., & Schacter, D.L.. Aging and the neural correlates of self-referencing.

Gutchess, A.H., Yoon, C., & Schultheiss, O.C. Memory for positive and negative social information with age.

Schacter, D. L., Gutchess, A., & Kensinger, E. A. Specificity of memory: Implications for individual and collective remembering. Chapter in preparation.

Hedden, T., Gutchess, A.H., & Yoon, C. Remembering to believe: Neural correlates of successfully encoded true and false information.

#### **Invited talks:**

*Cognitive Neuroscience*. Presented at the pre-conference “Exploring How Neuroscience Can Inform Consumer Research”, Association for Consumer Research conference, Orlando, Florida, September, 2006.

*Aging and memory for self and social contexts*. Presented in the symposium, “Memory changes with aging: Social and emotional influences”, 4<sup>th</sup> International Conference on Memory, Sydney, Australia, July, 2006.

*Age differences in scene encoding and retrieval: An ERP investigation*. 11th Cognitive Aging Conference, Atlanta, Georgia, April, 2006.

*Aging and long-term memory: Evidence for compensation?* Behavioral Neuroscience Laboratory, MIT, January, 2006.

*Contributions of age and culture to memory: Behavioral and neuroimaging investigations*. Department of Psychology, Brandeis University, December, 2005.

*Aging, long-term memory, and prefrontal compensation.* Martinos Center, Massachusetts General Hospital, August, 2005.

*Aging, culture, and long-term memory for pictures: fMRI investigations.* Department of Psychology, SUNY-Stony Brook, December, 2004.

*Current directions in long-term memory.* Workshop “Choice by Older Consumers”, 6<sup>th</sup> CU-Boulder Invitational Choice Symposium, Estes Park, Colorado, June, 2004.

*Improving cognitive function in older adults: Nontraditional approaches.* National Institute on Aging Symposium on Cognitive Training for Older Adults, Bethesda, Maryland, March, 2004.

*Aging and the neural correlates of successful picture encoding.* Cognitive Neuroscience area Brown Bag, University of Illinois, Urbana-Champaign, October, 2003.

*Aging and the neural correlates of successful picture encoding.* Functional MRI Fall Symposium 2003, University of Michigan, September, 2003.

*How does culture affect age-related changes in the categorical organization of memory?* 111<sup>th</sup> annual conference of the American Psychological Association, Toronto, Canada, August, 2003.

*The nuts and bolts of a collaborative research project between China and the United States.* International Congress of Applied Psychology, Singapore, July, 2002.

### **Conference Presentations:**

#### **Talks (from 2003 - present):**

Gutchess, A., Hebrank, A., Sutton, B., Leshikar, E., Chee, M., Tan, J., Goh, J., & Park, D. (2005, November). Prefrontal compensation with age for contextual interference. Talk presented at the annual Society for Neuroscience conference, Washington, DC.

Chee, M., Goh, J., Tan, J., Gutchess, A., Sutton, B., Hebrank, A., Leshikar, E., & Park, D. (2005, November). fMR-Adaptation shows that age and culture modulate visual processing of complex pictures. Talk presented at the annual Society for Neuroscience conference, Washington, DC.

Gutchess, A.H. (2005, May). fMRI Investigation of Cross-Cultural Differences in Object-Context Processing. Talk presented at the Midwestern Conference on Culture, Language, and Cognition, Northwestern University.

Gutchess, A.H. (2004, December). Age differences in neural activations for encoding and recognition of scenes. Talk presented at the International Conference on Aging, Cognition, and Neuroscience, Madrid, Spain.

Chee, M.W.L., Goh, J., Soon, C., Park, D., Gutchess, A., & Hebrank, A. (2004, October). Cortical areas involved in object, background, and object-background processing revealed with fMR-A. Talk presented at the annual Society for Neuroscience conference, San Diego, California.

Park, D.C., Gutchess, A.H., Welsh, R.C., & Boduroglu, A. (2004, January). Neuroimaging Cultural Differences in Processing of Scenes. Talk presented at the annual meeting of the Society for Personality and Social Psychology, Austin, Texas.

Gutchess, A.H., Welsh, R.C., Bangert, A., Minear, M., Hedden, T., Liu, L., & Park, D.C. (2003, November). Age Differences in Neural Activations for Remembered versus Forgotten Scenes. Talk presented at the annual Society for Neuroscience conference, New Orleans, Louisiana.

Park, D.C., Gutchess, A.H., Boduroglu, A., Welsh, R.C. (2003, November). Cross-Cultural Differences in the Neural Correlates of Picture Encoding. Talk presented at the annual Society for Neuroscience conference, New Orleans, Louisiana.

**Posters (from 2003 – present):**

Gutchess, A.H., Garoff-Eaton, R., & Schacter, D. L. (2006, October). The neural correlates of gist-based true and false recognition. Poster to be presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.

Gutchess, A.H., Kensinger, E.A., & Schacter, D.L. (2006, April). Medial prefrontal activation supports the self-reference effect for young and elderly. Poster presented at the annual meeting of the Cognitive Neuroscience Society.

Leshikar, E., Gutchess, A.H., Hebrank, A., Sutton, B., Welsh, R.C., & Park, D.C. (2006, April). Modulation of neural response to task difficulty in young and old adults using fMRI. Poster presented at the annual meeting of the Cognitive Neuroscience Society.

Gutchess, A. & Yoon, C. (2006, Feb). Aging and the self-reference effect in long-term memory. Poster presented at the annual meeting of the International Neuropsychological Society, Boston, MA.

Gutchess, A., Yoon, C., & Schultheiss, O. C. (2005, November). Age, implicit motives, and memory for positive and negative social information. Poster presented at the annual meeting of the Psychonomics Society, Toronto, Canada.

Chee, M., Goh, J., Tan, J.C., Gutchess, A., & Park, D. (2005, June). Functional magnetic resonance adaptation reveals age related differences in object-background processing. Poster presented at the annual Human Brain Mapping conference, Toronto, Canada.

Yoon, C., Gutchess, A.H., Feinberg, F., & Polk, T. (2005, April). Comparing brand and human personality via event-related fMRI. Poster presented at the annual Cognitive Neuroscience Society conference, New York City, New York.

Hedden, T., Gutchess, A., & Yoon, C. (2005, April). Neural correlates of successful source memory for truth and falsity measured using functional MRI. Poster presented at the annual Cognitive Neuroscience Society conference, New York City, New York.

Shinkareva, S., Ombao, H.C., Sutton, B., Gutchess, A., & Park, D. (2005, April). Model free classification of fMRI brain images. Poster presented at the annual Cognitive Neuroscience Society conference, New York City, New York.

Gutchess, A.H., Boduroglu, A., Welsh, R.C., & Park, D.C. (2004, April). Cross-cultural differences in the neural correlates of picture encoding. Poster presented at the annual Cognitive Neuroscience Society conference, San Francisco, California.

Gutchess, A.H., Welsh, R.C., Bangert, A., Minear, M., Liu, L., Hedden, T., & Park, D.C. (2003, March).

Aging and the neural correlates of successful encoding of pictures. Poster presented at the annual Cognitive Neuroscience Society conference, New York City, New York.

**Professional & University Service:**

Ad-hoc reviewer: *Brain & Cognition, Brain Research, Cerebral Cortex, Human Brain Mapping, Journal of Cognitive Neuroscience, Neurobiology of Aging, Neuropsychology, Psychiatry Research, Center for Healthy Minds Seed Grant Competition, APA Division 20 Student Research Awards*

Symposium co-convenor (with Elizabeth Kensinger), “Memory changes with aging: Social and emotional influences”. 4<sup>th</sup> International Conference on Memory, Sydney, Australia (July, 2006).

University of Michigan, Cognition & Perception area committees:  
Admissions, fMRI Speaker Series, Recruitment, Cognitive Neuroscience Journal group, Social, Forum

Scarlet Key Award (senior displaying outstanding student leadership), Boston University

**Teaching and Mentoring Experience:**

University of Michigan

Lecturer, Research Methods in Cognitive Psychology (lab), Fall 2004

Graduate Student Instructor, Human Neuropsychology, and guest lecturer on “Neuropsychology of Long Term Memory”, Fall 2003

Graduate Student Instructor, Introduction to Psychology, Winter 2003

Graduate Student Instructor, Research Methods in Cognitive Psychology (lab), Winter & Fall 2001

Graduate Student Instructor, Introduction to Cognitive Psychology, Fall 1999

Department of Psychology Outstanding Graduate Student Instructor Award Nominee, 2003

Mentoring (University of Michigan & Harvard University)

Mentored Freshmen in the Undergraduate Research Opportunities Program, upperclassmen enrolled in Psychology labs (at Michigan & Harvard), and Senior Honors student (Heather Huang, 2002)

**Membership in Professional Organizations:**

American Psychological Association; APA Division 20, APA Division 3

Association for Psychological Science

Cognitive Neuroscience Society

Society for Neuroscience

Psychonomics Society, Associate member

International Neuropsychological Society, Associate member

**References:**

Available upon request