

Angela Gutchess, Ph.D.

Department of Psychology
Brandeis University
415 South Street
MS 062 P.O. Box 549110
Waltham, MA 02454-9110
Phone: (781) 736-3247
Fax: (781) 736-3291

E-mail: gutchess@brandeis.edu

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*

A.M. 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:

Aug 2007 - present

Assistant Professor of Psychology, Brandeis University
Member, Neuroscience Program & Volen Center for Complex Systems, Brandeis University
Visiting Scientist, Massachusetts General Hospital

July 2005 - July 2007

Research Fellow, Massachusetts General Hospital, Department of Radiology & Postdoctoral
Research Fellow, Harvard University, Department of Psychology (Dr. Daniel Schacter, mentor)

May 2004 – June 2005

Postdoctoral Fellow, University of Illinois at Urbana-Champaign, Beckman Institute (Dr. Denise
Park, mentor)

Fall 2004 Lecturer, University of Michigan, Department of Psychology

Honors:

Phi Beta Kappa

Sigma Xi

Psi Chi

Golden Key Honor Society

Departmental Associate, University of Michigan

Awards:

Travel award to attend workshop on "Opportunities for Advancing Behavioral and Social Research on
Aging: An Introduction for Psychological Scientists", 2008

Summer Institute on Aging Research, 2007

Neural Systems of Social Behavior Conference Travel Award, 2007

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 & 2007, Wisconsin Symposium on Emotion

Vivian Smith Advanced Studies Summer Institute of the International Neuropsychological Society, 2004,
“The Human Frontal Lobes”, Xylocastro, Greece
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
Summer Institute in Cognitive Neuroscience, 2002, Dartmouth College
National Science Foundation Fellowship Honorable Mention, 1999
APA Student Travel Award, 2002
Boston University Trustee Scholarship (full tuition merit scholarship), 1994-1998

Grants and Funding:

AFAR, “Compensatory changes in neural recruitment with age”, 2008-2010
Theodore and Jane Norman Award for Faculty Scholarship, Brandeis University, 2009
National Institute on Aging, Ruth L. Kirchstein National Research Service Award, “Age-related Prefrontal Compensation in Long-term Memory”, 2005-2007
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

Research Interests

Contributions of context, including social and cultural contexts, to memory with age
Specificity of memory as a function of age and culture
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. & Indeck, A. (in press). Cultural influences on memory. *Progress in Brain Research*. Special Issue on “Cultural neuroscience: Cultural Influences on Brain Function”.
- Leshikar, E. D., Gutchess, A. H., Hebrank, A. C., Sutton, B. P., & Park, D. C. (in press). The impact of increased relational encoding demands on frontal and hippocampal function in older adults. *Cortex*.
- Gutchess, A. H. & Park, D. C. (2009). Effects of ageing on associative memory for related and unrelated pictures. *European Journal of Cognitive Psychology*, 21, 235-254.
- Cole, C., Laurent, G., Drolet, A., Ebert, J., Gutchess, A., Lambert-Pandraud, R., Mullet, E., Norton, M., & Peters, E. (2008). Decision making and brand choice by older consumers. *Marketing Letters*, 19, 355-365.
- Kensinger, E.A., Gutchess, A.H., & Schacter, D.L. (2007). Effects of aging and encoding instructions on emotion-induced memory trade-offs. *Psychology and Aging*, 22(4), 781-795.
- Gutchess, A.H., Kensinger, E.A., Yoon, C., & Schacter, D.L. (2007). Ageing and the self-reference effect in memory. *Memory*, 15(8), 822-837.

- Park, D.C., Gutchess, A.H., Meade, M.L., & Stine-Morrow, E.A.L. (2007). Improving cognitive function in older adults: Nontraditional approaches. *Journal of Gerontology: Psychological Sciences, 62B*, 45-52.
- Gutchess, A.H., Ieuiji, Y., & Federmeier, K.D. (2007). Event-related potentials reveal age differences in the encoding and recognition of scenes. *Journal of Cognitive Neuroscience, 19(7)*, 1089-1103.
- Gutchess, A.H., Kensinger, E.A., & Schacter, D.L. (2007). Aging, self-referencing, and medial prefrontal cortex. *Social Neuroscience, 2(2)*, 117-133.
- 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. (2007). Age and culture modulate object processing and object-scene binding in the ventral visual area. *Cognitive, Affective, and Behavioral Neuroscience, 7(1)*, 44-52.
- Gutchess, A.H., Hebrank, A., Sutton, B.P., Leshikar, E., Chee, M.W.L., Tan, J.C., Goh, J.O.S., & Park, D.C. (2007). Contextual interference in recognition memory with age. *NeuroImage, 35(3)*, 1338-1347.
- 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. Cognitive psychology and neuroscience of aging. In A. Drolet, N. Schwarz, & C. Yoon (Eds.), *The Aging Consumer: Perspectives from Psychology and Economics*. LEA/Psychology Press.
- Schacter, D. L., Gutchess, A. H., & Kensinger, E. A. (in press). Specificity of memory: Implications for individual and collective remembering. In P. Boyer & J. Wertsch (Eds.), *Memory in Mind and Culture*. Cambridge: Cambridge University Press.
- Gutchess, A.H. (in press). Aging, culture, and cognition. In D.C. Park & N. Schwarz (Eds.), *Cognitive Aging: A Primer* (2nd 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., Kensinger, E.A., & Schacter, D.L. Functional neuroimaging of self-referential encoding with age.
- Gutchess, A.H., Hedden, T., Ketay, S., Aron, A., & Gabrieli, J.D.E. Neural differences in the processing of semantic relationships across cultures.

Manuscripts in preparation:

Gutchess, A.H. & Schacter, D.L. The neural correlates of gist-based true and false recognition.

Gutchess, A.H., Aminoff, E., Bar, M., & Schacter, D.L. Contextual false memories and aging.

Gutchess, A.H., Yoon, C., & Schultheiss, O.C. Implicit motives and memory for social information with age.

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

Invited talks:

2010 (*upcoming*) Boston University Clinical Psychology Department, Boston, MA

2009 Workshop on Memory & Democratic Transitions, Rorschacherberg, Switzerland

Brain Aging Neuroimaging Group, Charlestown, MA

Living Long, Living Well, Brandeis University Lifespan Initiative on Healthy Aging

2008 Department of Psychology, University of Massachusetts at Dartmouth

The Aging Consumer: Perspectives from Psychology and Economics Conference,

Ross School of Business, University of Michigan

APS symposium, "Cultural Neuroscience: Investigating Cultural Influences on Brain Function"

APA symposium, "Social Neuroscience and Aging", Boston, MA

2007 Memory Disorders Research Center, Boston VA

Affective Sciences Initiative, Boston College

Human Brain Mapping symposium, "Cultural Neuroscience"

University of Pennsylvania Invitational Choice Symposium, "Decision Making by Older Consumers"

International Society for Behavioral Neuroscience, Crete, Greece

Cognition, Brain, & Behavior Research Seminar, Harvard University

M.R. Bauer Retreat, Volen Center, Brandeis University

Cognitive & Affective Neuroscience Laboratory, Boston College

2006 Association for Consumer Research pre-conference, "Exploring How Neuroscience Can Inform Consumer Research", Orlando, FL

International Conference on Memory symposium, "Memory changes with aging: Social and emotional influences", Sydney, Australia

Cognitive Aging Conference, Atlanta, GA

Behavioral Neuroscience Laboratory, MIT

2005 Department of Psychology, Brandeis University

Martinos Center, Massachusetts General Hospital

2004 Department of Psychology, SUNY-Stony Brook

CU-Boulder Invitational Choice Symposium, "Choice by Older Consumers", Estes Park, CO

National Institute on Aging Symposium on Cognitive Training for Older Adults, Bethesda, MD

2003 Cognitive Neuroscience area Brown Bag, University of Illinois, Urbana-Champaign

Functional MRI Fall Symposium 2003, University of Michigan

American Psychological Association symposium, Toronto, Canada

2002 International Congress of Applied Psychology symposium, Singapore

Conference Presentations:

Talks (from 2003 - present):

Gutchess, A.H., Sokal, R., & Schacter, D. L. (upcoming). Effects of aging on the neural correlates of gist-based false recognition. Talk to be presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Gilron, R. & Gutchess, A.H. (upcoming). You never get a second chance to make a first impression – or do you? Successful encoding of first impressions into memory. Talk to be presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Gutchess, A. H. & Gilron, R. (2009, May). The encoding of first impressions into memory. Talk presented at the annual meeting of the International Society for Behavioral Neuroscience.

Gutchess, A. H., Kensinger, E. A., & Schacter, D. L. (2007, Nov). Age differences in the neural substrates underlying memory attribution. Talk presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

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.

Posters (from 2005 – present):

Serburn, S. J. & Gutchess, A. H. (upcoming). Memory for object details in self- and other-referencing. Poster to be presented at the annual meeting of the Psychonomic Society, Boston, MA.

- Gutchess, A.H., Sokal, R., Coleman, J. A., & Gotthilf, G. (upcoming). Age differences in self-referencing: evidence for distinct encoding strategies. Poster to be presented at the annual meeting of the Social & Affective Neuroscience Society, New York, NY.
- Gutchess, A.H., Hedden, T., Ketay, S., Aron, A., & Gabrieli, J.D.E. (upcoming). A cross-cultural comparison of semantic judgments. Poster to be presented at the annual meeting of the Social & Affective Neuroscience Society, New York, NY.
- Limbert, M. J. & Gutchess, A. H. (2008, Nov). Aging affects memory for valenced character information. Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL.
- Gutchess, A. H., Aminoff, E., Bar, M., & Schacter, D. L. (2008, May). Contextual false memories and aging. Poster presented at the Association for Psychological Science meeting, Chicago, IL.
- Gutchess, A. H. (2008, April). Self-referencing and the specificity of memory with age. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Gutchess, A. H., Kensinger, E. A., & Schacter, D. L. (2007, May). Self-referencing, memory, & aging. Poster presented at the Neural Systems of Social Behavior Conference, Austin, TX.
- Leshikar, E., Gutchess, A., Hebrank, A., Sutton, B., Welsh, R., & Park, D. (2007, May). Relational encoding leads to greater engagement of prefrontal cortex in lower than higher-performing elderly. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Gutchess, A.H., Garoff-Eaton, R., & Schacter, D. L. (2006, October). The neural correlates of gist-based true and false recognition. Poster 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, San Francisco, CA.
- 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, San Francisco, CA.
- 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.

Professional Service:

Ad-hoc reviewer: *Aging, Neuropsychology, and Cognition, BMC Neurology, Brain & Cognition, Brain Research, Cerebral Cortex, Cognitive, Affective, and Behavioral Neuroscience, Cortex, Developmental Psychology, European Journal of Cognitive Psychology, European Journal of Social Psychology, Experimental Aging Research, Human Brain Mapping, International Journal of Psychophysiology, Journal of Cognitive Neuroscience, Journal of Consciousness Studies, Journal of Cross-Cultural Gerontology, Journal of Cross-Cultural Psychology, Journal of Gerontology: Psychological Sciences, Journal of Neuroscience, Learning & Memory, Memory, Neurobiology of Aging, NeuroImage, Neuropsychologia, Neuropsychology, Psychiatry Research, Psychological Science, Psychology & Aging, The Quarterly Journal of Experimental Psychology, Social Cognitive and Affective Neuroscience, Social Neuroscience, NSF grant external reviewer, Center for Healthy Minds Seed Grant Competition, APA Division 20 Student Research Awards, APA Division 20 Conference Submissions, Canadian Institutes of Health Research external grant reviewer, NSF external grant reviewer, Pearson Education textbooks, Wellcome Trust Fellowship Program, Worth Publishers textbooks*

Member, APA Division 20 Early Career Task Force

Symposium co-organizer:

“Advances in Understanding Cognitive Aging.” International Society for Behavioral Neuroscience, Hilton Head, SC (May 2009)

“Social Neuroscience and Aging.” Division 20, 116th annual meeting of the American Psychological Association, Boston, MA (August 2008).

“Memory changes with aging: Social and emotional influences”. 4th International Conference on Memory, Sydney, Australia (July 2006).

Brandeis University Service:

Colloquium series organizer; Graduate curriculum committee; Experiential learning committee; (EL)² symposium selection committee & session chair; Kay Fellow search committee; Major area paper committees (Eric Allard, Jane Harries, Eileen Kranz, Emily Schmidt); Thesis committee (Eyleen Zhang, Eric Allard, Eileen Kranz, Kim MacKenzie, Tepring Piquado, Emily Schmidt, Michael Strom); Second year project reader (Eric Allard); First year project reader (Monika Lohani); Neuroscience outside reader (Amy Ghiretti, Rebecca Kreipke, Lauren Couture); Senior honors project reader (Alexandra Main, Aaron Glick); Senior honors thesis supervisor (Allie Indeck, Roe Gilron, Maya Siegel, Nadine Channaoui, Ayala Hamami)

Teaching and Mentoring Experience:

Brandeis University

Social Neuroscience and Culture, Department of Psychology (Spring 2008)

Research Methods and Laboratory in Psychology, Department of Psychology (Spring 2008, 2009)

Introduction to Psychology, Department of Psychology (Fall 2008, 2009)

Proseminar in Brain, Body, and Behavior II, Department of Psychology (Spring 2009)

University of Michigan

Research Methods in Cognitive Psychology (lab), Lecturer Fall 2004; Grad Student Instructor, 2001

Human Neuropsychology, Graduate Student Instructor and guest lecturer, Fall 2003

Introduction to Psychology, Graduate Student Instructor, Winter 2003

Introduction to Cognitive Psychology, Graduate Student Instructor, Fall 1999

Department of Psychology Outstanding Graduate Student Instructor Award Nominee, 2003

Mentoring

Primary advisor to 4 PhD students and 2 MA students (2007-2010), Brandeis University

Mentored undergraduates receiving credit, completing senior honors theses, or volunteering at Brandeis

University, University of Michigan, & Harvard University (8 undergraduates Fall 2009)

Membership in Professional Organizations:

American Psychological Association; APA Division 20, APA Division 3

Association for Psychological Science

Society for Neuroscience

International Society for Behavioral Neuroscience

Psychonomics Society, Associate member

References:

Available upon request