

Curriculum Vitae

Brian D. Gonsalves, Ph.D.

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University of Illinois

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ACADEMIC HISTORY

2005-present Assistant Professor, Department of Psychology and Beckman Institute for
Advanced Science and Technology,

University of Illinois at Urbana-Champaign

2002-2005 Post-doctoral Research Fellow, Massachusetts Institute of Technology and
Stanford University

Advisor: Anthony D. Wagner

2001-2002 Post-doctoral Research Associate, Northwestern University Advisors:
Ken A. Paller and Paul J. Reber

1996-2001 Ph.D., Psychology, Northwestern University, June, 2001

Advisor: Ken A. Paller

1990-1994 B.A., Biology and Neuroscience, Bowdoin College, May, 1994

FELLOWSHIPS, HONORS, AND AWARDS

Memory Disorders Research Society Annual Meeting, Chicago, IL

Laird Cermak Award, October 2003

Massachusetts Institute of Technology / Stanford University

NRSA Postdoctoral Fellowship from the National Institute of Mental Health, 2002-2005

Northwestern University, Evanston, IL

Graduate Research Grant, 1999-2000

Dartmouth Medical School, Hanover NH

Fellowship for the Summer Institute in Cognitive Neuroscience, 1999

Northwestern University, Evanston IL

Graduate fellowship in Psychology, 1995

Bowdoin College, Brunswick, ME

Graduated With Honors, May 1994

MEMBERSHIPS

Cognitive Neuroscience Society, 1996-present

Society for Neuroscience, 2000-present

American Psychological Society, 2005-present

PROFESSIONAL EXPERIENCE

Ad Hoc Referee:

Hippocampus

Cognitive Brain Research

Cerebral Cortex

Psychophysiology

Journal of Cognitive Neuroscience

Nature Neuroscience

Neuropsychologia

TEACHING EXPERIENCE

Northwestern University, Evanston, IL

Served as teaching assistant for courses in Perception, Human Electrophysiology Laboratory, Biological Psychology, Research Methods, Introduction to Cognitive Science, and Introduction to Neuroscience. Responsibilities included leading discussion and lab sections and writing and grading exams.

RESEARCH EXPERIENCE

1996-2002 Northwestern University

Electroencephalography

- Auditory event-related potentials associated with conscious recollection
- Brain potentials associated with visual imagery engaged during auditory word recognition
- Brain potential correlates of recognition and categorization of dot patterns.
- Brain potential correlates of memory for faces
- Brain activity associated with true and false memory for pictures

- Lateralization of brain activity associated with source memory for laterally encoded pictures
- Brain potential correlates of subjective vividness of visual imagery

Functional MRI

- fMRI correlates of face memory
- Event-related fMRI of encoding and retrieval processes related to false memory

2002-2005 Massachusetts Institute of Technology and Stanford University

Functional MRI

- Recollection and familiarity-based recognition memory for faces – encoding and retrieval processes
- Encoding predictors of subsequent familiarity-based recognition and conceptual priming

Magnetoencephalography

- Anatomical MRI-constrained source localization of MEG correlates of recollection and familiarity-based recognition memory for faces

PUBLICATIONS

Gonsalves, B., Kahn, I., Curran, T., Norman, K.A., & Wagner, A.D. (2005). Memory strength and repetition suppression: Multimodal imaging of medial temporal cortical contributions to recognition. *Neuron*, **47**, 751-761. [pdf](#)

Gonsalves, B., Reber, P.J., Gitelman, D.R., Parrish, T.B., Mesulam, M.-M., & Paller, K.A. (2004). Neural evidence that vivid imagining can lead to false remembering. *Psychological Science*, **15**, 655-660. [pdf](#)

Paller, K.A., Ranganath, C., **Gonsalves, B.**, LaBar, K.S., Parrish, T.B., Gitelman, D.R., Mesulam, M.-M., & Reber, P.J. (2003). Neural correlates of person recognition. *Learning & Memory*, **10**, 253-260.

Gonsalves, B. & Paller, K.A. (2002). Mistaken memories: Remembering events that never happened. *The Neuroscientist*, **8**, 391-395. [pdf](#)

Gonsalves, B. & Paller, K.A. (2000). Neural events that underlie remembering something that never happened. *Nature Neuroscience*, **3**, 1316-1321. [pdf](#)

Gonsalves, B. & Paller, K.A. (2000). Brain potentials associated with recollective processing of spoken words. *Memory & Cognition*, **28**, 321-330. [pdf](#)

Paller, K.A., **Gonsalves, B.**, Bozic, V.S., & Grabowecky, M. (2000). Electrophysiological correlates of recollecting faces of known and unknown individuals. *NeuroImage*, **11**, 98-110.

Manuscripts in preparation

Gonsalves, B., Kahn, I., Curran, T., Norman, K.A., & Wagner, A.D. Spatiotemporal correlates of face recognition: encoding and retrieval processes associated with recollection and familiarity. Manuscript in preparation.

Gonsalves, B. & Wagner, A.D. Does conceptual priming subserve familiarity? fMRI encoding predictors of declarative and nondeclarative memory. Manuscript in preparation.

PRESENTATIONS

Gonsalves, B., Kahn, I., Curran, T., Norman, K.A., & Wagner, A.D. Spatiotemporal predictors of later face recollection: prefrontal cortex mediates top-down modulation of encoding. Annual Meeting of the Society for Neuroscience, San Diego, October 2004.

Gonsalves, B. & Wagner, A.D. Does conceptual priming subserve familiarity? fMRI encoding predictors of declarative and nondeclarative memory. Annual Meeting of the Cognitive Neuroscience Society, San Francisco, April 2004.

Gonsalves, B. & Wagner, A.D. Nondeclarative memory formation: encoding predictors of subsequent conceptual priming. Annual Meeting of the Society for Neuroscience, New Orleans, November 2003.

Gonsalves, B., Davachi, L., Norman, K.A., Curran, T., & Wagner, A.D. Neural correlates of recollection and familiarity-based recognition memory for faces. Annual Meeting of the Cognitive Neuroscience Society, New York, April 2003.

Gonsalves, B., Reber, P.J., Crawford, M., & Paller, K.A. Reading the mind's eye using an occipital brain potential that indexes vividness of visual imagery. Annual Meeting of the Cognitive Neuroscience Society, San Francisco, April 2002.

Gonsalves, B., Reber, P.J., Gitelman, D.R., Parrish, T.B., Mesulam, M.-M., & Paller, K.A. Event-related fMRI reveals brain activity at encoding that predicts true and false memory for visual objects. Annual Meeting of the Society for Neuroscience, San Diego, November 2001.

Gonsalves, B. & Paller, K.A. Brain activity associated with true and false memories for visual objects. Annual Meeting of the Society for Neuroscience, New Orleans, November 2000.

Gonsalves, B. & Paller, K.A. Memories can deceive: Brain potentials distinguish between true and false memories. Annual Meeting of the Cognitive Neuroscience Society, San Francisco, April 2000.

Gonsalves, B., Paller, K.A., Reber, P.J., & Squire, L.R. Brain potentials associated with category learning and recognition reflect neural correlates of two distinct types of memory. Annual Meeting of the Cognitive Neuroscience Society, Washington D.C., April 1999.

Gonsalves, B. & Paller, K.A. Brain potentials associated with generating visual images during auditory word recognition. Annual Meeting of the Cognitive Neuroscience Society, San Francisco, April 1998.

Gonsalves, B. & Paller, K.A. Conscious recollection, visual imagery, and brain potentials. Annual Meeting of the Psychonomic Society, Philadelphia, November 1997.

Gonsalves, B. & Paller, K.A. Auditory event-related potentials associated with conscious recollection. Annual Meeting of the Cognitive Neuroscience Society, Boston, April 1997.

INVITED PRESENTATIONS

Mini-symposium on the Cognitive Neuroscience of False Memory, Society for Neuroscience Annual Meeting, Atlanta, October 2006.

Remembering (and Misremembering) the Past: Multimodal Imaging of Memory Encoding and Retrieval. Cognitive Brownbag Series, University of California, Davis, November 2004.

Encoding predictors of true and false memories. Annual Meeting of the Memory Disorders Research Society, New York, October 2004.

Spatiotemporal correlates of recollection- and familiarity-based recognition memory for faces. Liverpool Memory Meeting, Liverpool, June 2004.

Neural correlates of recollection and familiarity-based recognition memory for faces. Cermak Award Presentation, Annual Meeting of the Memory Disorders Research Society, Chicago, October 2003.

REFERENCES

Available upon request.