

Kim M. Curby
Department of Psychology
Temple University
1701 North 13th St
Philadelphia, PA, 19122
Phone: (215) 204-7325
Email: kim.curby@temple.edu



Education

- Ph.D., Vanderbilt University, Nashville, TN. Degree in psychology received in 2006
Dissertation advisor: Isabel Gauthier
Dissertation topic: *Perceptual expertise affects visual short-term memory and the time-course of perceptual encoding*
- M.A., Vanderbilt University, Nashville, TN. Degree received in 2002
Masters advisor: Isabel Gauthier
Masters topic: *Interference between face and car processing in dual experts*
- B.S., University of Wollongong, NSW, Australia. Degree received in 1999
Double major in psychology and biology.
Honors advisor: William Hayward

Appointments

- Assistant Professor, Department of Psychology, Temple University, 2007-present
- Post-doctoral Research Fellow, Yale Child Study Center, Yale University, 2006-2007
Post-doctoral adviser: Robert Schultz
Post-doctoral research agenda: *Applying insights about the development of visual expertise towards understanding perceptual processing abnormalities in autism*

Fellowships and Academic Awards

Research fellowships and awards

- James H. Brown – Alexander B. Coxe Post-doctoral Fellowship in Medical Sciences, 2007 (\$40,356)
(declined)
- Vanderbilt Summer Research Award, 2005 (\$2,500)
- Lisa M. Quesenberry Award, Quesenberry Foundation, 2005 (\$1,500)
Competitive memorial research funds
- Member of the Golden Key Honor Society, 2003 – present
Invited membership to international cross-discipline honor society
- Vanderbilt Graduate Fellowship, 2000 (\$11,500)

Teaching awards

- William F. Hodges Award, 2003, Vanderbilt University

Travel awards

Organization for Human Brain Mapping Travel Fellow, 2004 (\$500)

Vanderbilt Graduate School Travel Grant, 2004 (\$1000)

Vanderbilt Graduate School Travel Grant, 2002 (\$1000)

Teaching Experience

Course Instructor

Fall 2008, *Honors Research Seminar*

Course Instructor

Fall 2007, Spring 2008, Fall 2008, *Psychology as a Natural Science*

Teaching Assistant

Spring 2003, *Introductory Psychology*, Vanderbilt University (with Dr. T. McNamara)

Teaching Assistant

Fall 2002, *Perception*, Vanderbilt University (with Dr. R. Blake)

Teaching Assistant

Spring 2002, *Research Methods and Design*, Vanderbilt University (with Dr. I. Gauthier)

Teaching Assistant

Fall 2001, *Brain Damage and Cognition*, Vanderbilt University (with Dr. I. Gauthier)

Undergraduate Advising

Research Supervisor. Department of Psychology, Temple University

Roger Beaty (Fall 2007); Alyssa Tyson (Spring 2008, Summer 2008, Fall 2008); Jolene Stouffer (Spring 2007); Francisco Arroyo (Summer, 2008, Fall 2008); Christopher Brown (Summer, 2008, Fall, 2008).

Diamond Peer Teacher Supervisor, Department of Psychology, Temple University

Jennifer Conner (Fall 2007, Spring, 2008)

Publications

Published and In press

Curby, K. M., Glazek, K. & Gauthier, I. (in press). A visual short-term memory advantage for objects of expertise. *Journal of Experimental Psychology: Human Perception & Performance*.

Curby, K. M. & Rossion, B. (in press). *Competition between face and non-face domains of expertise*. To appear in D. Bub, M. J. Tarr, & I. Gauthier (Eds.), *Perceptual Expertise: Bridging Brain and Behavior*.

Curby, K. M., & Gauthier, I. (2007). A visual short-term memory advantage for faces. *Psychonomic Bulletin and Review*, 14(4), 620-628.

Gauthier, I., Curby, K. M., Skudlarski, P., & Epstein, R. (2005). Activity in the human fusiform gyrus reflects separate spatial frequency channels. *Cognitive, Affective and Behavioral Neuroscience*, 5(2), 222-234.

Gauthier, I. & Curby, K. M., (2005). A Perceptual Traffic-Jam on Highway N170: Interference between face and car expertise. *Current Directions in Psychological Science*, 14(1), 30-33.

Curby, K. M., Hayward, W. G. & Gauthier, I. (2004). Laterality effects in the Recognition of Depth Rotated Novel Objects. *Cognitive, Affective and Behavioral Neuroscience*, 4(1), 100-111.

Gauthier, I., Curran, T., Curby, K. M., & Collins. D. (2003). Perceptual interference supports a non-modular account of face processing. *Nature Neuroscience*, 6(4), 428-32.

Gauthier, I., James, T. W., Curby, K. M. & Tarr, M. J. (2003). The influence of conceptual knowledge on visual discrimination. *Cognitive Neuropsychology*, 20(3-6), 507-523.

In Progress

Most, S.B., Wang, L., Engelhardt, D., & Curby, K.M. (in revision). Attention's the key: Emotional stimuli impair visual working memory selectively.

Curby, K.M., & Schultz, R.T. (in revision). *High and low spatial frequency information contribute to behavioral and neural markers of face-specific processes.*

Curby, K. M., Willenbockel, V., Tanaka, J., & Schultz, R. T. (under review). *Face processing in autism: Insights from the perceptual expertise framework.* To appear in D. Bub, M. J. Tarr, & I. Gauthier (Eds.), *Perceptual Expertise: Bridging Brain and Behavior.*

Curby, K. M., & Gauthier, I. (in preparation). A comparison of the time-course of expert and novice object encoding.

Curby, K. M., & Gauthier, I. (in revision). The dark side of expertise: Interference between face and non-face domains of perceptual expertise.

Curby, K. M., Schyns, P. G., Gosselin, F., & Gauthier, I. (in revision). Face-selective fusiform activation in Asperger's Syndrome: A matter of tuning to the right (spatial) frequency.

Conference Presentations

Curby, K. M. & Smith, S. D. Effect of emotional expression on VSTM for faces: A matter of time. Paper to be presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, Illinois, November, 2008.

Curby, K. M. & Smith, S. D. Facing Fear: The effect of emotional expression of visual short-term memory for faces. Poster presented at the Meeting of the Vision Sciences Society, Naples, Florida, May, 2008.

Curby, K. M. & Gauthier, I. The time-course of expert and novice visual object encoding. Poster presented at the Meeting of the Vision Sciences Society, Sarasota, Florida, May, 2006.

Curby, K. M. & Gauthier, I. Dissociating visual short-term memory and perceptual capacity for faces and objects. Poster presented at the Meeting of the Vision Sciences Society, Sarasota, Florida, May, 2005.

Curby, K. M. & Gauthier, I. Capacity Limitations in Category Selective Areas. Talk presented at the annual meeting of The Organization for Human Brain Mapping (OHBM), Budapest, Hungary, June, 2004. *Received NIH/OHBM sponsored travel award for top trainees in human brain mapping.*

Curby, K. M., Schyns, P., Gosselin, F., & Gauthier, I. Face-selective fusiform activation in Asperger's Syndrome: A matter of tuning to the right (spatial) frequency. Poster presented at the 22nd Attention & Performance meeting in Denver, Colorado, 2004.

Curby, K. M., Schyns, P., Gosselin, F., & Gauthier, I. Spatial Frequency Use in Asperger's Syndrome. Poster presented at the Meeting of the Vision Science Society, Sarasota, Florida, May, 2003.

Gauthier, I., Curran, T., Curby, K. M. & Collins, D. Perceptual interference evidence for a non-modular account of face processing. Poster presented at the Cognitive Neuroscience Meeting, New York, March, 2003.

Curby, K. M., Hayward, W. G. & Gauthier, I. Left-hemisphere viewpoint-independent recognition depends on semantic information. Poster presented at the 43rd Annual meeting of the Psychonomic Society, Kansas City, November, 2002.

Curby, K. M. & Gauthier, I. Face-selectivity in the fusiform gyrus to highpass but not unfiltered images in a person with Asperger's syndrome. Poster presented at the annual meeting of The Human Brain Mapping Meeting, Sendai, Japan, June, 2002.

Gauthier, I., Curby, K. M. & Epstein, R. Spatial Frequency Channels in the Human FFA. Poster presented at the annual meeting of The Human Brain Mapping Meeting, Sendai, Japan, June, 2002. Also presented as a poster at the 20th Attention & Performance meeting in Erice, Sicily, July, 2002.

Curby, K. M. & Gauthier, I. Interference between car and face expertise. Talk presented at the OPAM workshop, Orlando, Florida, November, 2001.

Invited Colloquia

Curby, K. M. Face-selectivity in ASD: A matter of tuning to the right (spatial) frequency? Talk given to the Autism Science Meeting, Yale Child Study Center, May 2007.

Curby, K. M. To the trained eye: Expertise alters visual processing. Talk given to the Department of Psychology, Temple University, February, 2007.

Curby, K. M. To the trained eye: Expertise alters visual processing. Talk given at the Department of Psychology's Cognition Colloquium Series, University of Delaware, February, 2007.

Curby, K. M. Perceptual expertise increases visual short-term memory capacity. Talk given at the Department of Psychology's Current Work in Cognition Series, Yale University, September, 2006.

Curby, K. M. Face-selective fusiform activation in Asperger Syndrome: A matter of tuning to the right (spatial) frequency. Talk given to the Vanderbilt Kennedy Center and the Center on Child Development Grand Rounds, Vanderbilt University, October 2004.

Curby, K. M. Visual Expertise: What can cognitive neuroscientists learn from surgical pathologists? Talk given to the Surgical Pathology Grand Rounds, Department of Pathology, University of New Mexico Medical School, May 2003.

Selected Media Coverage of Research

For Gauthier, Curran, Curby, & Collins' (2003) research on perceptual interference in dual experts
New York Times, Scientific American, BBC news, CNN news, Science Daily, ABC news, United Press International, New Scientist, Reuters, Daily Telegraph London, Yahoo News, Car and Driver.

For Curby & Gauthier's (2007) research on the visual short-term memory advantage for faces
United Press International, Science Daily, Medical News Today, Newswise.com, Psychologie Heute.

Professional and Departmental Service

Acting Director, Undergraduate Honors Program, Department of Psychology, Temple University. Fall 2008.

Committee Member, Social Studies Committee, Department of Psychology, Temple University. Fall 2008 – present.

Organizer, 15th & 16th Annual *Object Perception, Attention, and Memory* (OPAM) Conference. This is a satellite conference associated with the larger annual meeting of the Psychonomic Society. 2006-2008.

Ad-hoc reviewer for *Trends in Cognitive Science*, *Proceeding of the Royal Society B (Biological Science)*, *Neuroimage*, *Brain and Cognition*, *Perception and Psychophysics*, *Memory and Cognition*, *Visual Cognition*, and *Journal of Experimental Psychology: Human Perception and Performance*

Research Grants

National Science Foundation, “*Understand Mechanism Driving Increased Efficiency in Expert Visual Processing*”, Submitted. (\$275,672). PI: Curby

Professional Memberships

Member of the Vision Sciences Society
Associate Member of the Psychonomic Society