

# Curriculum Vitae

## Michael L. Mack

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## Education

*Vanderbilt University, Nashville, Tennessee*  
**Graduate Program in Psychology**, 2005-present  
Advisor: Dr. Thomas Palmeri

*Michigan State University, East Lansing, Michigan*  
**M.S. in Computer Science**, 2005  
Interdisciplinary Cognitive Science Program  
Advisors: Dr. Aude Oliva and Dr. George Stockman

*Michigan State University, East Lansing, Michigan*  
**B.S. High Honors in Computer Science**, 2003

## Research Interests

Object recognition and categorization; scene perception; perceptual expertise

## Awards

Golden Greeble Travel Award, Perceptual Expertise Network, 2007  
William F. Hodges Teaching Assistant Award, Psychology Department, Vanderbilt University, 2007  
Learning Sciences Institute Fellow, Vanderbilt University, 2005-present

## Peer-Reviewed Publications

**Mack, M.L.**, Sadr, J., Gauthier, I., & Palmeri, T.J. (2008). Object detection and basic-level categorization: Sometimes you know it is there before you know what it is. *Psychonomic Bulletin & Review*, 15(1), 28-25.

**Mack, M.L.**, Wong, A.C.-N., Gauthier, I., Tanaka, J., & Palmeri, T.J. (2007). Unraveling the time course of perceptual categorization: Does fastest mean first? *Proceedings of the Twenty-Ninth Annual Meeting of the Cognitive Science Society*, 1253-1258.

Richler, J.J., **Mack, M.L.**, Gauthier, I., & Palmeri, T.J. (2007). Distinguishing between perceptual and decisional sources of holism in face processing. *Proceedings of the Twenty-Ninth Annual Meeting of the Cognitive Science Society*, 1427-1432.

Oliva, A., **Mack, M. L.**, Shrestha, M., & Peeper, A. (2004). Identifying the perceptual dimensions of visual complexity of scenes. *Proceedings of the Twenty-Sixth Annual Meeting of the Cognitive Science Society*, 1041-1046.

#### *Manuscripts under review*

Castelhano, M.S., **Mack, M.L.**, & Henderson, J.M. Viewing Task Influences Eye Movement Control during Active Scene Perception

## Other Publications

**Mack, M.L.**, Richler, J.J., Palmeri, T.J., & Gauthier, I. (in press). Categorization. In G.G. Berntson & J.T. Cacioppo (Eds.), *Handbook of Neuroscience for the Behavioral Sciences*. John Wiley & Sons

Henderson, J.M., Brockmole, J.R., Castelhano, M.S., & **Mack, M.L.** (2007). Visual saliency does not account for eye movements during visual search in real-world scenes. In Van Gompel, R.P.G., Fischer, M.H., Murray, W.S., & Hill, R.L. (Eds.), *Eye movements: A window on mind and brain*. Oxford: Elsevier.

Gajewski, D.A., Pearson, A.M., **Mack, M.L.**, Bartlett, F.N., & Henderson, J.M. (2005). Human Gaze Control in Real World Search. In Paletta, L.; Tsotsos, J.K.; Rome, E.; Humphreys, G. (Eds.), *Attention and Performance in Computational Vision (pp. 83-99)*. New York: Springer-Verlag.

## Conference Presentations

**Mack, M.L.**, Richler, J.J., Gauthier, I., & Palmeri, T.J. (May 2007). Comparing the locus of holistic processing in people and models. *Poster presented at the Seventh Annual Meeting of Vision Sciences Society*, Sarasota, Florida.

**Mack, M.L.**, Wong, A.C.-N., Gauthier, I., & Palmeri, T.J. (May 2006). The Time Course of Visual Object Detection and Categorization. *Poster presented at the Sixth Annual Meeting of Vision Sciences Society 2006*, Sarasota, Florida.

**Mack, M.L.** & Oliva, A. (November 2004). Computational Estimation of Visual Complexity. *Poster presented at the Twelfth Annual Object, Perception, Attention, and Memory Conference*, Minneapolis, Minnesota.

Carlisle, N.B., **Mack, M.L.**, & Oliva, A. (November 2004). The Role of Visual Complexity in Short Term Memory. *Poster presented at the Twelfth Annual Object, Perception, Attention, and Memory Conference*, Minneapolis, Minnesota.

Castelhano, M.S., **Mack, M.L.**, & Henderson, J.M. (November 2004). Task Influences on Eye Movement Control in Scenes. *Poster presented at the Forty-Fifth Annual Meeting of the Psychonomic Society*, Minneapolis, Minnesota.

Brockmole, J.R., **Mack, M.L.**, Castelhano, M.S., Oliva, A., & Henderson, J.M. (November 2004). Fixation Duration is Related to Local Image Statistics During Real-World Scene Viewing.

*Poster presented at the Forty-Fifth Annual Meeting of the Psychonomic Society, Minneapolis, Minnesota.*

**Mack, M.L.** & Oliva, A. (May 2004) The Perceptual Dimensions of Visual Simplicity. *Poster presented at the Fourth Annual Meeting of Vision Sciences Society, Sarasota, Florida.*

**Mack, M.L.**, Oliva, A., Shrestha, M., & Peeper, A. (May 2004). The Representation of Complexity of Real-World Scenes. *Poster presented at the Fourth Annual Meeting of Vision Sciences Society, Sarasota, Florida.*

**Mack, M.L.**, Castelhana, M.S., Henderson, J.M., & Oliva, A. (November 2003). What the Visual System "Sees": The relationship between fixation positions and image properties during a search task in real-world scenes. *Poster presented at the Eleventh Annual Object, Perception, Attention, and Memory Conference, Vancouver, British Columbia.*

## **Other Presentations**

2007 14<sup>th</sup> Meeting of the Perceptual Expertise Network, New Haven, Connecticut  
Cognitive & Cognitive Neuroscience Brownbag, Vanderbilt University

## **Teaching Experience**

*Vanderbilt University, Nashville, Tennessee*

Spring 2007 Teaching Assistant, "Principles of Experimental Design"  
(Dr. Thomas Palmeri)

Fall 2006 Teaching Assistant, "Principles of Experimental Design"  
(Dr. Adriane Seiffert)

## **Professional Societies**

Vision Sciences Society, 2004-present  
Cognitive Science Society, 2007

## **Ad-hoc Reviewer**

*Vision Research, Psychonomic Bulletin & Review*