

# Ethan M. Meyers, Ph.D.

*Curriculum vitae, updated April 2012*

## Contact Information

McGovern Institute for Brain Research and  
Department of Brain and Cognitive Sciences  
Mass. Institute of Technology, Building 46-5155D  
77 Mass Ave, Cambridge, MA, 02139  
Phone: (617) 447-7814  
emeyers@mit.edu  
[web.mit.edu/emeyers/www](http://web.mit.edu/emeyers/www)

## Education

2004-2010 Ph.D. in Computational Neuroscience, Mass. Institute of Technology  
Advisor: Tomaso Poggio  
1998-2002 B.A. in Computer Science, Oberlin College

## Current Position

2010-present Postdoctoral Fellow, McGovern Institute for Brain Research, MIT

## Past Positions

2002-2004 Technical Assistant, in the laboratory of Pawan Sinha, MIT  
2002-winter Research Intern, Dept of Biomedical Engineering, UT Memphis

## Honors, Awards and Fellowships

2009-2010 Hubert Schoemaker Graduate Student Fellowship  
2006-2009 National Defense Science and Engineering Graduate Fellowship  
2005 Sigma Xi Scientific Research Society  
2002 Phi Beta Kappa Honor Society  
2002 High Honors in Computer Science, Oberlin College

## Teaching Experience

Teaching Assistant, 9.011 Systems Neuroscience Core (Profs. Earl Miller, Matt Wilson)  
Teaching Assistant, 9.660 Computational Cognitive Science (Prof. Josh Tenenbaum)  
Teaching Assistant, 9.63 Laboratory in Cognitive Science (Prof. Aude Oliva)  
Teaching Assistant, 9.00 Introduction to Psychology (Prof. Jeremy Wolfe)

## Student Supervision

Ami Patel (master of engineering, MIT, 2013)  
Jiahao Liang (undergraduate, MIT, class of 2014)  
Mia Borzello (research assistant MGH, undergraduate UC Berkeley, class of 2011)  
Mark Rodgers (undergraduate, UC Berkeley, class of 2013)

## Publications

### Journal articles

**Meyers, E.**, Qi, X.L., Constantinidis C. Incorporation of new information into prefrontal cortical activity after learning working memory tasks. Proceedings of the National Academy of Sciences, 109:4651-4656-8855, 2012. [\[pdf\]](#) [\[link to supplementary web material\]](#)

Zhang Y.,\*, **Meyers, E.\***, Bichot, N., Serre, T., Poggio, T., and Desimone, R. Object decoding with attention in inferior temporal cortex. Proceedings of the National Academy of Sciences, 108:8850-8855, 2011. \***These authors contributed equally.** [\[pdf\]](#) [\[link to supplementary web material\]](#)

Ostrovsky, Y., **Meyers, E.**, Ganesh, S., Mathur, U., Sinha P. Visual Parsing After Recovery From Blindness. Psychological Science, 20:1467-1491, 2009. [\[link to paper\]](#)

**Meyers, E.**, Freedman, D., Kreiman, G., Miller, E., Poggio T. Dynamic Population Coding of Category Information in Inferior Temporal and Prefrontal Cortex. Journal of Neurophysiology, 100:1407-1419, 2008. [\[pdf\]](#) [\[link to supplementary web material\]](#)

**Meyers, E.**, Wolf, L. Using Biologically Inspired Visual Features for Face Processing. International Journal of Computer Vision, Vol 76, No. 1, 93-104, 2008. [\[link to paper\]](#)

Cox, D., **Meyers, E.**, and Sinha, P. Contextually Evoked Object-specific Responses in Human Visual Cortex, Science, Vol. 303, No. 5667, 115-117, 2004. [\[link to paper\]](#)

### Refereed Conference Papers

Wolf, L., Bileschi, S., and **Meyers, E.** Perception Strategies in Hierarchical Vision Systems IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2006. [\[pdf\]](#)

Ezzat, T., **Meyers, E.**, Glass, J., and Poggio, T. Morphing Spectral Envelopes Using Audio Flow, Interspeech/Eurospeech, Lisbon, Portugal, September 2005.

### **Technical Reports**

**Meyers, E.**, Embark, H., Freiwald, W., Serre, T., Kreiman, G., and Poggio T. Examining high level neural representations of cluttered scenes. MIT-CSAIL-TR-2010-034 / CBCL-289, Massachusetts Institute of Technology, Cambridge, MA, July 29, 2010

### **Book Chapter**

**Meyers, E.**, and Kreiman, G. "Tutorial on Pattern Classification in Cell Recording". In: Visual population codes. Kreigeskorte, N., and Kreiman, G. (eds.), 2011, MIT Press.

### **Conference abstracts**

Meyers, E., Qi, X.L., Constantinidis C. The incorporation of new information into prefrontal cortical activity after learning new tasks. Poster: Cosyne, Salt Lake City, Utah, 2012.

Meyers, E., Qi, X.L., Constantinidis C. Comparing the information content of PFC before and after training in a working memory task. Poster: Society for Neuroscience, Washington, DC, 2011.

Meyers, E., Zhang, Y., Bichot, N., Serre, T., Poggio, T., Desimone R. The representation of objects in inferior temporal cortex with and without attention. Talk: Society for Neuroscience, San Deigo, CA, 2010.

Meyers, E., Zhang, Y., Bichot, N., Poggio, T., Desimone, R. Attention's influence on object representations in the inferior temporal cortex. Invited talk: The 7th International Conference on Cognitive Science, Beijing, China, 2010.

Meyers, E., Freedman, D., Miller, E., Kreiman, G., Poggio, T. The Coding of Abstract Category Information in Macaque Inferior Temporal and Prefrontal Cortex. Invited talk: The 7th International Conference on Cognitive Science, Beijing, China, 2010.

Meyers, E., Zhang, Y., Bichot, N., Chikkerur, S., Serre, T., Poggio, T., Desimone R. Decoding multiple objects from populations of macaque IT neurons with and without spatial attention. Poster: Cosyne, Salt Lake City, Utah, 2010.

Meyers, E., Freedman, D., Kreiman, G., Miller, E., Poggio T. Decoding dynamic patterns of neural activity using a 'biologically plausible' fixed set of weights. Poster: Cosyne, Salt Lake City, Utah, 2009.

Meyers, E., Embark, H., Freiwald, W., Serre, T., Kreiman, G., Poggio, T. Neural representations of cluttered scenes in macaque ventral visual cortex. Poster: Society for Neuroscience, Washington, DC, 2008.

Meyers, E., Hung, C., Freedman, D., Miller, E., Kreiman G. Decoding of ITC Cell Activity Matches Human Visual Similarity Judgments. Talk: Vision Sciences Society. Sarasota, Florida, May 2007.

Meyers, E., Freedman, D., Miller, E., Kreiman, G., Poggio, T. Reading Out Visual Information from Populations of Neurons in Inferior Temporal and Prefrontal Cortex. Poster: Cosyne, Salt Lake City, Utah, 2007.

Meyers, E., Ostrovsky, Y., & Sinha, P. Visual de-fragmentation via high spatial frequencies. Poster: Vision Sciences Society. Sarasota, Florida, May 2005.

Meyers, E., Cox, D. D., & Sinha, P. Neural responses to contextually defined faces. Talk: Vision Sciences Society. Sarasota, Florida May 2003.