

Curriculum Vitae

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Michelle R. Greene

Massachusetts Institute of Technology
77 Massachusetts Ave 46-4078ca
Cambridge, MA 02139
Web: <http://web.mit.edu/~mrgreene/www>

Phone: 617-258-9675
Fax: 617-258-8654
Email: mrgreene@mit.edu

Education

- 2004 - PhD candidate, Cognitive Science
 Massachusetts Institute of Technology, Cambridge, MA
 Dissertation Advisor: Aude Oliva
 Anticipated graduation: July 2009
- 2000-2004 B.S., Psychobiology
 University of Southern California, Los Angeles, CA
 Thesis advisor: Irving Biederman

Fellowships

- 2005 -2009 National Science Foundation Graduate Research Fellowship
- 2004 Women in Science and Engineering Research Fellowship (USC)
- 2003 Psychobiology Summer Research Fellowship (USC)

Publications

Refereed Articles

Greene, M.R. & Oliva, A. (2009). The Briefest of Glances: the Time Course of Natural Scene Understanding. *Psychological Science*, 20(4), 464-472.

Greene, M.R. & Oliva, A. (2009). Recognition of Natural Scenes from Global Properties: Seeing the Forest Without Representing the Trees. *Cognitive Psychology*, 58(2), 137-176.

Greene, M.R. & Oliva, A. (2006) Natural Scene Categorization from Conjunctions of Ecological Global Properties. *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, Vancouver, July (pp. 291-296).

Articles Submitted or in Revision

Greene, M.R., & Oliva, A. (submitted). Adapting to Scene Space: High-Level Aftereffects to Global Scene Properties.

Ross, M.G., Greene, M.R., & Oliva, A. (in revision) Human natural image classification strategies revealed by graphical models.

Work in Preparation

Articles

Oliva, A., & Greene, M.R. Scene Understanding: Past, Present and Future.

Greene, M.R., Oliva, A., & Torralba, A. Calculating Scene Context: What 48,000 Objects Can tell us about the Structure of Scene Categories.

Ross, M.G., Greene, M.R., & Oliva, A. Graphical Model Reveals Image Features used by Human Observers in Natural Scene Categorization.

Greene, M.R., & Biederman, I. The N170 Adapts to Individual Face Shape – but not Pigmentation.

Conference Presentations

Greene, M.R., Park, S., & Oliva, A. Rapid Scene Understanding: Evidence of Global Property Processing before Basic-level Categorization. Poster presented at Vision Sciences Society, May 2009, Naples Florida.

Park, S., Greene, M.R., Brady, T., & Oliva, A. Natural scene categorization by global scene properties: Evidence from patterns of fMRI activity. Talk presented at the annual meeting of the Vision Sciences Society, May 2009, Naples Florida.

Greene, M.R. & Oliva, A. High-level Aftereffects to Natural Scenes. Talk presented at the annual meeting of the Vision Sciences Society, May 2008, Naples Florida.

Greene, M.R., Oliva, A., & Torralba, T. Calculating Scene Context: What 47,928 Objects can tell us about scene categories. Poster presented at Scene Understanding Symposium (SUNS), February 2008, Cambridge Massachusetts.

Greene, M.R., & Oliva, A. High-level aftereffects to natural scenes: adapting to the building blocks of gist. Poster presented at Scene Understanding Symposium (SUNS), February 2007, Cambridge Massachusetts.

Greene, M.R. & Oliva, A. Natural Scene Categorization from Conjunctions of Ecological Global Properties. Talk presented at the annual meeting of the Cognitive Science Society, July 2006, Vancouver, B.C.

Greene, M.R. & Oliva, A. Seeing the {Camouflage+Closed+Natural=Forest} for the trees: Rapid scene categorization can be mediated by Conjunctions of Global Scene Properties. Poster presented at the annual meeting of the Vision Sciences Society, May 2006, Sarasota Florida.

Konkle, T., McDaniel, E., Greene, M.R., & Oliva, A. Constructing Depth Information in Briefly Presented Scenes. Poster presented at the annual meeting of the Vision Sciences Society, May 2006, Sarasota Florida.

Oliva, A., Konkle, T., Greene, M.R., & Torralba, A. Not all scene categories are created equal: the role of object and layout diagnosticity in scene gist understanding. Poster presented at the annual meeting of the Vision Sciences Society, May 2006, Sarasota Florida.

Oliva, A., & Greene, M.R. From zero to gist in 200msec: the time course of scene recognition. Talk presented at Scene Understanding Symposium (SUNS), February 2006, Cambridge Massachusetts.

Greene, M.R. & Oliva, A. Better to run than hide – time course of naturalistic scene decisions. . Poster presented at the annual meeting of the Vision Sciences Society, May 2005, Sarasota Florida.

Greene, M.R. & Oliva, A. Perceiving visual complexity...Objects do not matter. Poster presented at Object Perception Attention and Memory (OPAM), November 2004, Minneapolis, MN.

Greene, M.R., Russell, R., & Biederman, I. The N170 adapts to Shape—but not pigmentation—of individual faces” Poster presented at the annual meeting of the Vision Sciences Society, May 2004, Sarasota Florida.

Greene, M.R., Mangini, M.C., & Biederman, I. The N170 adapts to Individual, Attended Faces. Talk presented at Object Perception Attention and Memory (OPAM), November 2003, Vancouver BC.

Greene, M.R., Mangini, M.C., & Biederman, I. Trying your best to ignore a face does little to diminish the N170. Poster presented at the annual meeting of the Vision Sciences Society, May 2003, Sarasota Florida.

Biederman, I., Vessel, E.A., & Greene, M.R. The grouping of contours into an L-vertex depends on contrast polarity: Evidence for the incorporation of image statistics into mechanisms of perceptual grouping. Poster presented at the annual meeting of the Vision Sciences Society, May 2003, Sarasota Florida.

Colloquia and Lectures

- 2006: Global Context for Visual Recognition (presented with A. Torralba)
Presented at Harvard Vision Lab.
- Natural Scene Categorization from Global Properties.
Presented at MIT Cog Lunch.
- 2005: Temporal Progression of Scene Understanding: How Far Can You Get in
a Glance?
Presented at MIT Cog Lunch.
- Temporal Progression of Scene Understanding: How Far Can You Get in
a Glance?
Presented at Visual Attention Lab.

Teaching Experience

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| 2009: | Teaching Assistant | 9.012: Cognitive Science
Massachusetts Institute of Technology |
| | Instructor | “Big Blunders of Scientific Ethics in Cog-
Neuroscience”
Massachusetts Institute of Technology
Spark! Seminar for high school students. |
| 2008: | Guest Lecturer | 9.917: Scene Understanding Seminar
Massachusetts Institute of Technology
Title: “Methods of Human Image
Classification” |
| | Instructor | “Neuroscience for Future Presidents”
Massachusetts Institute of Technology
Splash! Seminar for high school students. |
| 2006: | Teaching Assistant | 9.00: Introduction to Psychology
Massachusetts Institute of Technology |

Teaching Assistant

9.63: Laboratory in Cognitive Science
Massachusetts Institute of Technology

Honors and Distinctions

- 2005: National Science Foundation GRF Fellow.
- 2004: National Science Foundation GRF Honorable Mention
- USC Undergraduate Symposium for Scholarly and Creative Work,
Winner, Social Sciences Division.
- Outstanding Graduate, Psychobiology Program, USC.
- 2001: Class Award: Biochemistry and Cell Biology, USC.

Ad-hoc Reviewing

Journal of Experimental Psychology: Human Perception and Performance
Proceedings of the Cognitive Science Society
European Cognitive Science
Psychonomic Bulletin and Review
Perception & Psychophysics
Perception

Professional Service

- 2007-2008: Coordinator, MIT Cog Lunch
2003-2004: President, Psi Beta Honors Society
2001-2002: Secretary, Psi Beta Honors Society

Professional Memberships

Vision Sciences Society, student member
Cognitive Sciences Society, student member
Neuroethics Society, student member