

CURRICULUM VITAE

NAME:

Matthew Ferris Peterson

HOME:

249 Placer Drive
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OFFICE:

Vision & Image Understanding Laboratory
Department of Psychology
University of California, Santa Barbara
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BIRTH:

July 1, 1981, Santa Barbara, CA

EDUCATION:

1998-2002	UC Santa Barbara Santa Barbara, California MAJOR: Electrical Engineering DEGREE: B.S., High Honors
2002-2004	UC Santa Barbara Santa Barbara, California MAJOR: Electrical Engineering DEGREE: M.S.
2005-present	UC Santa Barbara Santa Barbara, California MAJOR: Psychology EMPHASIS: Cognition, Perception and Cognitive Neuroscience DEGREE TRACK: Ph.D.

COMMITTEES:

2002 – 2003	UC Santa Barbara Graduate Student Council Representative, ECE Department
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UC Santa Barbara
Ombuds Committee
Graduate student representative

2007 – 2008 UC Santa Barbara
Psychology Graduate Executive Committee
Representative, third year students

RESEARCH POSITIONS:

06/2001 – 06/2002 Undergraduate Research Assistant
Microwave Electronics Laboratory
Dept. of Electrical & Computer Engineering
UC Santa Barbara
Dr. Umesh Mishra

06/2002 – 12/2003 Graduate Research Assistant
Microwave Electronics Laboratory
Dept. of Electrical & Computer Engineering
UC Santa Barbara
Dr. Umesh Mishra

04/2005 – present Graduate Research Assistant
Vision and Image Understanding Laboratory
Department of Psychology
UC Santa Barbara
Dr. Miguel Eckstein

TEACHING:

Teacher of Record:

UC Santa Barbara Summer 2009 Psychology 107: Introduction to Perception
Fall 2009 Psychology 107: Introduction to Perception
Summer 2010 Psychology 107: Introduction to Perception

Teaching Assistantships:

UC Santa Barbara Winter 2004 Engineering 101: Engineering Ethics
Spring 2004 Engineering 101: Engineering Ethics
Fall 2004 ECE 2A: Electronic Circuits
Spring 2005 ECE 2C: Electronic Circuits
Spring 2008 Psychology 110L: Laboratory in Perception
Fall 2008 Psychology 110A: Vision
Spring 2009 Psychology 110L: Laboratory in Perception
Fall 2010 Psychology 110A: Vision
Spring 2011 Psychology 110L: Laboratory in Perception

FELLOWSHIPS & HONORS:

Internal Institution Awards:

1998 – 2002

UC Santa Barbara Regent's Scholarship (\$18,000 over four years for tuition and related expenses)

State and National Awards:

2002 – 2003

California MICRO Fellowship (\$18,000 stipend plus tuition and fees)

2005 – 2007

National Science Foundation IDM IGERT Fellowship (\$60,000 stipend plus tuition and fees)

PUBLICATIONS:

Journal Articles:

Eckstein MP, Das K, Pham B, Peterson MF, Abbey CK, Sy J & Giesbrecht B (2011). Neural decoding of collective wisdom with multi-brain computing. *NeuroImage*, in press.

Peterson MF, Das K, Sy JL, Li S, Giesbrecht B, Kourtzi Z & Eckstein MP (2010). Ideal observer analysis for task normalization of pattern classifier performance applied to EEG and fMRI data. *J Opt Soc Am A*, 27(12), 2670-2683.

Peterson MF, Abbey CK & Eckstein MP (2009). The surprisingly high human efficiency at learning to recognize faces. *Vision Research*, 49(3), 301-314.

Eckstein MP, Peterson MF, Pham BT & Droll J (2009). Statistical decision theory to relate neurons to behavior in the study of covert visual attention. *Vision Research*, 49(10), 1097-1128.

Talks:

Peterson MF & Eckstein MP (2011). Fixating the eyes is an optimal strategy across important face (related) tasks. *Vision Sciences Society Annual Meeting*.

Peterson MF & Eckstein MP (2009). Eye movement strategies adapted to individual differences in the loci of performance-maximizing fixations during face recognition. *Vision Sciences Society Annual Meeting*.

Peterson MF (2008). Insights into human face recognition processing strategies through feature-based quantitative comparisons. *NSF IGERT seminar series, UC Santa Barbara*.

Eckstein MP, Giesbrecht B, Pham BT, Peterson MF, Abbey CK & Sy JL (2008). Neural basis of the benefits of group decisions. *Society for Neuroscience*.

Peterson MF, Abbey CK & Eckstein MP (2007). Information distribution in real-world faces and its relation to human face recognition strategy. *Vision Sciences Society Annual Meeting*.

Posters:

Peterson MF & Eckstein MP (2010). Human and foveated ideal observer eye movement strategies during an emotion discrimination task. *Vision Sciences Society Annual Meeting*.

Peterson MF, Cox IR & Eckstein MP (2008). The use of the eyes for human face recognition explained through information distribution analysis. *Vision Sciences Society Annual Meeting*.

Peterson MF, Abbey CK & Eckstein MP (2006). Perceptual learning of discriminating features for facial recognition. *Vision Sciences Society Annual Meeting*.