

Jessie J. Peissig, Ph.D.

Personal Data

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Education

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| 2001 | Ph.D. | University of Iowa, Iowa City, IA
Training Area: Behavioral and Cognitive Neuroscience
Thesis Title: A Study of Object Representation in the Pigeon
Advisor: Edward A. Wasserman |
| 1995 | B.A. | Winona State University, Winona, MN
Major: Psychology
Minor: Biology |

Professional Positions

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| 2006-present | Assistant Professor, California State University, Fullerton |
| 2004-2006 | Postdoctoral Research Associate, Brown University
Supervisor: Michael J. Tarr |
| 2002-2004 | Postdoctoral Research Fellow, Perceptual Expertise Network
Brown University
Supervisors: David L. Sheinberg and Michael J. Tarr |
| 2003, 2004, 2005 | Instructor, Summer at Brown Program |
| 1998, 1999, 2001 | Instructor, University of Iowa |
| 1995-2001 | Research Assistant, University of Iowa |
| 1997-1999 | Teaching Assistant, University of Iowa |

Academic Awards and Honors

2007-present	Appointment as the American Psychological Association Div. 3 Early Career Psychologist Representative
2004	American Psychological Association Brenda A. Milner Award (Div. 6) for an outstanding paper by a member within five years of having received the Ph.D.
2002-2004	Postdoctoral Research Fellowship, Perceptual Expertise Network
2001	Presentation Award, Brain and Behavior Conference, University of Iowa
1995-1999	Kraft Foods/Phillip Morris Graduate Scholarship
1997	Tuition Fellowship, University of Iowa

Publications

Peissig, J. J. & Goode, T. ‡ (2012). How animals recognize rotated objects. Chapter for *How Animals See the World: Behavior, Biology, and Evolution of Vision* (pp. 233-246). New York, New York, Oxford University Press.

Righi, G., **Peissig, J. J.**, & Tarr, M. J. (2012). The impact of disguise on the recognition and processing of faces. *Visual Cognition*.

Bukach, C. M. & **Peissig, J. J.** (2010). How faces became special. In I. Gauthier, M. J. Tarr, & D. Bub (Eds.), *Perceptual Expertise: Bridging Brain and Behavior* (pp. 11-39). New York, New York, Oxford University Press.

Kung, C., **Peissig, J. J.**, & Tarr, M. J. (2007). Is region of interest overlap analysis a reliable test of category selectivity? *Journal of Cognitive Neuroscience*, *19*, 2019-2034.

Peissig, J.J., Singer, J., Kawasaki, K. & Sheinberg, D.L. (2007). Effects of long-term object familiarity on event-related potentials in the monkey. *Cerebral Cortex*, *17*, 1323-1334.

Peissig, J. J. & Tarr, M. J. (2007). Object recognition: Do we know more today than we did twenty years ago? In S. T. Fiske, A. E. Kazdin, & D. L. Schacter (Eds.), *Annual review of psychology: Volume 58* (pp. 75-96). Palo Alto, CA: Annual Reviews Press.

Anderson, B., **Peissig, J.J.**, Singer, J. & Sheinberg, D.L. (2006). Configural learning in monkeys using an XOR task. *Vision Research*, *46*, 1804-1815.

Peissig, J.J., Kirpatrick, K., Young, M.E., Wasserman, E.A. & Biederman, I. (2006). The effects of varying stimulus size on object recognition in pigeons. *Journal of Experiment Psychology: Animal Learning and Behavior*, *32*, 419-430.

Sheinberg, D. L., **Peissig, J. J.**, & Kawasaki, K., & Mruczek, R. E. B. (2006). Initial saccades predict manual recognition choices in the monkey. *Vision Research*, *46*, 3812-3822

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (2005). The role of edges in objects recognition by pigeons. *Perception*, *34*, 1353-1374.

Vuong, Q. C., **Peissig**, J. J., Harrison, M. C., & Tarr, M. J. (2005). The role of surface pigmentation for recognition revealed by contrast reversal in faces and objects. *Vision Research*, *45*, 1213-1223.

Astley, S. L., **Peissig**, J. J., & Wasserman E. A. (2002). Superordinate categorization via learned stimulus equivalence: Quantity of reinforcement, hedonic value, and the nature of the mediator. *Journal of Experimental Psychology: Animal Behavior Processes*, *27*, 252-268.

Peissig, J. J., Wasserman, E. A., Young, M. E., & Biederman, I. (2002). Learning an object from multiple views enhances its recognition in an orthogonal rotational axis in pigeons. *Vision Research*, *42*, 2051-2062.

Wasserman, E. A., Young, M. E., & **Peissig**, J. J. (2002). Brief presentations are sufficient for pigeons to discriminate displays of same and different stimuli. *Journal of the Experimental Analysis of Behavior*, *78*, 347-357.

Young, M. E., **Peissig**, J. J., Wasserman, E. A., & Biederman, I. (2001). Discrimination of Geons by Pigeons: The Effects of Variations in Surface Depiction. *Animal Learning and Behavior*, *29*, 97-106.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (2000a). Seeing things from a different angle: The pigeon's discrimination of single geons rotated in depth. *Journal of Experimental Psychology: Animal Behavior Processes*, *26*, 115-132.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (2000b). The pigeon's perception of depth-rotated shapes. In J. Fagot (Ed.), *Picture Perception in Animals* (pp. 37-70). Psychology Press, Ltd, East Sussex, England.

Manuscripts Submitted or In Preparation

Goode, T.,‡ Smith, P.,‡ & **Peissig**, J. J., (submitted). The role of eyebrows in face recognition: Place holder or facial feature?

Peissig, J. J. & Huynh, C.*. ‡ (in preparation). A database of faces with genuine emotional expressions.

Peissig, J. J., Moniz, E.,‡ Righi, G. & Tarr, M. J. (in preparation). The recognition of faces in disguise: Was Clark Kent really unrecognizable as Superman?

Peissig, J. J., Nagasaka, Y., Young, M.E., Wasserman, E.A., & Biederman, I. (in preparation). Using the reassignment procedure to test object representation in pigeons.

Peissig, J. J., Vuong, Q. C., Vettel, J., Killian, A.,* & Tarr, M. J. (in preparation). Contrast reversal and the recognition of familiar and novel objects.

Peissig, J. J., Wasserman, E.A., Young, M.E., & Biederman, I. (in preparation). The pigeon's ability to attend to a dynamic light source.

Peissig, J. J., Young, M. E., Schmitzer-Torbert, N., Hutton, A., Wasserman, E.A., & Luck, S.J. (in preparation). Change detection using spatial localization in pigeons and humans.

Presentations

Peissig, J. J., Vicente, G. I.,‡ Bouz, M.,* & Lujan, A.* (August 2010). Validation of a face database of genuine emotional expressions. Poster presented at the Annual Convention of the American Psychological Association, San Diego, CA.

Huynh, C. M.,* Vicente, G. I.,‡ & **Peissig, J. J.** (May 2010). The effects of familiarity on genuine emotion recognition. Poster presented at the Tenth Annual Meeting of the Vision Sciences Society, Naples, FL.

Killian, A.,* Vuong, Q. C., Vettel, J., & **Peissig, J. J.** (May 2010). The recognition of faces, airplanes, and novel objects is impaired by contrast reversal. Poster presented at the Tenth Annual Meeting of the Vision Sciences Society, Naples, FL.

Moniz, E.,‡ Righi, G. **Peissig, J. J.**, & Tarr, M. J. (May 2010). The Clark Kent effect: What is the role of familiarity and eyeglasses in recognizing disguised faces? Poster presented at the Tenth Annual Meeting of the Vision Sciences Society, Naples, FL.

Peissig, J. J., Goode, T.,‡ & Smith, P.‡ (May 2009). The role of eyebrows in face recognition: With, without, and different. Poster presented at the Ninth Annual Meeting of the Vision Sciences Society, Naples, FL.

Kawa, K. H.,‡ Jalali, A., Larsen, C., Rodriguez, L., Trevitt, J. T., **Peissig, J. J.** (August 2008). Effects of adenosine antagonists on two models of parkinsonian tremor. Poster presented at the Annual American Psychological Association Convention, Boston, MA.

Peissig, J. J., Vettel, J., Nieto, M.,* & Tarr, M. J. (November 2007). The effect of contrast reversal on the recognition of rotated familiar objects. Poster presented at the Fifteenth Annual Workshop on Object Perception, Attention, and Memory (OPAM), Long Beach, CA.

Peissig, J. J., Vuong, Q. C., Vettel, J., & Tarr, M. J. (May 2006). Does contrast reversal affect the recognition of common objects? Poster presented at the Sixth Annual Meeting of the Vision Sciences Society, Sarasota, FL.

Kung, C., **Peissig, J. J.**, & Tarr, M. J. (November 2005). Is region-of-interest overlap a reliable measure to support category specificity? Poster presented at the 35th Annual Meeting of the Society for Neuroscience, Washington, DC.

Peissig, J. J., Sanderson, M. I, Singer, J., Tanaka, J., Curran, T., & Sheinberg, D. L. (November 2004). Changes in visual evoked potentials as a function of long-term familiarity in monkeys and humans. Poster presented at the 34th Annual Meeting of the Society for Neuroscience, San Diego, CA.

Anderson, B., **Peissig, J. J.**, & Sheinberg, D. L. (May 2004). Visual XOR tasks are hard for monkeys. Poster presented at the Fourth Annual Meeting of the Vision Sciences Society, Sarasota, FL.

Peissig, J. J., Kawasaki, K., & Sheinberg, D. L. (May 2004). Long-term familiarity as measured by evoked potentials in the monkey. Paper presented at the Fourth Annual Meeting of the Vision Sciences Society, Sarasota, FL.

Singer, J. M., Anderson, B., **Peissig, J. J., & Sheinberg, D. L.** (May 2004). Visual XOR tasks are easy for monkeys. Poster presented at the Fourth Annual Meeting of the Vision Sciences Society, Sarasota, FL.

Kawasaki, K., **Peissig, J. J., & Sheinberg, D. L.** (November 2003). Changes in visual evoked potentials during visual discrimination learning. Poster presented at the 33rd Annual Meeting of the Society for Neuroscience, New Orleans, LA.

Peissig, J. J., Vuong, Q. C., Harrison, M. C., & Tarr, M. J. (November 2003). Recognition of familiar objects is impaired by contrast reversal. Poster presented at the Eleventh Annual Workshop on Object Perception, Attention, and Memory (OPAM), Vancouver, B.C., Canada.

Peissig, J. J., Vuong, Q. C., Harrison, M. C., & Tarr, M. J. (May 2003). Contrast reversals in faces and objects: The effect of albedo. Poster presented at the Third Annual Meeting of the Vision Sciences Society, Sarasota, FL.

Peissig, J. J. & Sheinberg, D. L. (November 2002). The effects of experience on recognition performance. Poster presented at the 32nd Annual Meeting of the Society for Neuroscience, Orlando, FL.

Peissig, J. J., Young, M.E., Wasserman, E. A., & Biederman, I. (May 2002). Object recognition in pigeons: The effects of spatial frequencies. Poster presented at the Second Annual Meeting of the Vision Sciences Society, Sarasota, FL.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (November, 2001). Object recognition in pigeons. Poster presented at the annual meeting of the Psychonomic Society, Orlando, FL.

Peissig, J. J. (April, 2001). Do pigeons preferentially use high or low spatial frequencies when recognizing objects? Featured speaker at the Brain and Behavior Conference, Iowa City, IA.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (March, 2001). Object recognition in pigeons: The effect of a dynamic light source. Paper presented at the International Comparative Cognition Conference, Melbourne, FL.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (November, 1999). Stimulus size and the pigeon's ability to recognize objects. Poster presented at the annual meeting of the Psychonomic Society, Los Angeles, CA.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (November, 1999). Object recognition in pigeons: The role of stimulus features. Poster presented at the Seventh Annual Workshop on Object Perception and Memory (OPAM), Los Angeles, CA.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (April, 1999). The pigeon's ability to form a generalized structural description. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Washington, D.C.

Wasserman, E. A., **Peissig, J. J., & Astley, S. L.** (March, 1999). Reinforcement mechanisms of superordinate category formation by pigeons. Paper presented by E. A. Wasserman at the International Comparative Cognition Conference, Melbourne, FL.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (November, 1998) The pigeon's discrimination of single geons rotated in depth. Paper presented by E. A. Wasserman at the annual meeting of the Psychonomic Society, Dallas, TX.

Peissig, J. J., Young, M. E., Wasserman, E. A., & Biederman, I. (May, 1997). The pigeon's discrimination of single geons rotated in depth. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, 1997.

‡=graduate student at CSUF

*=undergraduate student at CSUF

Current Research Projects

Most of my research focuses on various facets of visual expertise. I am currently using a face database of normal, disguised, and emotional faces that I collected while at Brown University. We are using the database to study how people recognize faces that have been disguised in various ways, such as changing the hair or adding glasses. We have also looked at how familiarity affects people's ability to recognize subtle, genuine emotions. Finally, we are collecting data exploring the role of eyebrows in face recognition.

I am also interested in more general aspects of object recognition, for example, the role of surface properties in recognition. Contrast reversal (similar to photo negatives) can be used to measure how surface properties contribute to recognition performance. My current research uses contrast reversal to explore the effects of other factors, such as visual expertise and object familiarity, on the extent to which surface properties are used for recognition.

Grant Funding

2012-2014	Incentive Intramural Research Grant, \$10,000
2011	Teaching Mini Grant Award, \$300
2011-2012	CSUF Funding My Research Program, \$1500
2009-2010	University Mission & Goal Initiative: Undergraduate Training Grant, \$19,000
2009-2010	CSUF OGC Minigrant: Poker Players and Emotional Expressions, \$4949
2009-2010	CSUF Faculty/Student Creative Activity Grant: Emotion Recognition, \$1000
2009-2010	CSUF Faculty/Student Creative Activity Grant: Attractiveness Judgments, \$995
2010	CSUF FDC Domestic Travel Grant, \$500
2009	CSUF Humanities and Social Sciences Summer Support Grant: Emotion Recognition Using Genuine Facial Expressions, \$3000
2007	CSUF Summer Stipend Award: Surface Properties in Object Recognition, \$5091
2006-2007	Probationary Faculty Stipend Award, \$6500
2006-2007	CSUF Instructionally Related Research: Recognizing Disguised Faces, 3 WTUs

Professional Service

2011	Review Editor for Frontiers in Perception Science
2011-2012	Elected to HSS Curriculum Committee, CSUF
2011-2012	Elected to Department Goals and Directions Committee, CSUF
2011	Administrator of CSUF Psychology Department FaceBook Page
2009-present	Commencement Committee, California State University, Fullerton
2008-present	Coordinator of the Psychology Undergraduate Classroom Assistant Program
2007-Present	Early Career Psychologist Representative for Division 3 of the American Psychological Association
2006-2011	Space and Equipment Committee, California State University, Fullerton
2006-2011	Psychology Day Committee, California State University, Fullerton
2010	Ad hoc Reviewer for Learning and Behavior
2010	Ad hoc Reviewer for the Journal of Cognitive Science
2008-2010	Ad hoc Reviewer for Attention, Perception, Psychophysics
2008-2009	Ad hoc Reviewer for Vision Research
2008	Ad hoc Reviewer for Perception
2007	Goals and Directions Committee, California State University, Fullerton
2007-2008	Awards and Honors Committee, California State University, Fullerton
2005	Ad hoc Reviewer for Cognition
2005	Ad hoc Reviewer for Learning and Memory
2004-2006	President of the Brown University Postdoctoral Association
2003	Ad hoc Reviewer for the Austrian Science Fund

Professional Organizations

1997-present	American Psychological Association
2007-2009	American Psychological Society
1998-2006	Cognitive Neuroscience Society
2007-present	Psychonomic Society
2002-2009	Society for Neuroscience
2000-2002, 2007-2008	Society for Comparative Cognition
2001-present	Vision Sciences Society

Teaching Experience

Courses Taught:

2010	Psychology 520T: <i>Evolution and Cognition</i> , California State University, Fullerton
2007-present	Psychology 304: <i>Comparative Animal Behavior</i> , California State University, Fullerton
2007-present	Psychology 304L: <i>Lab in Comparative Animal Behavior</i> , California State University, Fullerton
2006-2009	Psychology 302: <i>Learning & Memory</i> , California State University, Fullerton
2006-2010	Psychology 302L: <i>Lab in Learning & Memory</i> , California State University, Fullerton
2004, 2005	Behavioral Neuroscience BN901-3A: <i>Brain and Behavior</i> , Summer at Brown Pre-College Program, Brown University.
2003	Biology BI914-2E: <i>Brain and Behavior</i> , Summer at Brown Pre-College Program, Brown University.
2001	Psychology 31:012: <i>Introduction to Brain and Behavior</i> , University of Iowa.
1999	Psychology 31:016: <i>Introduction to Cognitive Psychology</i> , University of Iowa. Co-taught.
1999	Psychology 31:119: <i>Memory and Cognition (advanced cognitive)</i> , University of Iowa. Co-taught.
1998	Psychology 31:114: <i>Cognitive Development of Children (advanced developmental)</i> , University of Iowa. Co-taught.