

# DAVID WHITNEY

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## *Professor*

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## ACADEMIC APPOINTMENTS

2014 – Present	Professor, Department of Psychology, University of California, Berkeley.
2014 – Present	Professor, Helen Wills Neuroscience Institute, University of California, Berkeley.
2014 – Present	Co-Director of the Tsinghua-UC Berkeley Psychology Exchange Program.
2011 – 2013	Area Head, Department of Psychology, UC Berkeley.
2010 – 2014	Associate Professor, Helen Wills Neuroscience Institute, University of California, Berkeley.
2009 – 2014	Associate Professor, Department of Psychology, University of California, Berkeley.
2009 – 2012	Research Associate, Center for Mind & Brain, University of California, Davis.
2008 – 2009	Associate Professor, Department of Psychology and Center for Mind & Brain, University of California, Davis.
2004 – 2008	Assistant Professor, Department of Psychology and Center for Mind & Brain, University of California, Davis.
2001 – 2004	Postdoctoral Fellow, Group for Action and Perception, Department of Psychology, The University of Western Ontario, London, Ontario

## EDUCATION

2001	Harvard University	Ph.D. in Psychology
2000	Harvard University	A.M. in Psychology
1997	Boston University	B.A. in Psychology, Philosophy, and Economics <i>Summa Cum Laude</i> <i>Phi Beta Kappa</i>

## HONORS & AWARDS

2015	<i>Keynote lecture, Japanese Vision Sciences Society</i>
2013	<i>Department of Psychology Graduate Mentor Award, UC Berkeley</i>
2012	<i>Best paper award (S. Haroz &amp; D. Whitney) InfoVis, IEEE VGTC</i>

- 2008 *Vision Sciences Society (VSS) Young Investigator Award*
- 2008 *National Science Foundation (NSF) CAREER Award*
- 2007 *Excellence in Education Award (Social Sciences), by Associated Students of UC Davis (student nominated award)*
- 2005 *Excellence in Education Award (Social Sciences), by Associated Students of UC Davis (student nominated award)*
- 2003 *Brain Star Award, Canadian Institutes of Health Research (CIHR) for excellence in research*
- 1999 *Committee on Undergraduate Education (CUE) Certificate of Distinction in Teaching Award, Harvard University. Also received in 2000 and 2001*
- 1999 NDSEG fellowship
- 1997 *Summa cum laude, Boston University*
- 1997 *Honors in Psychology, Boston University*
- 1997 *Cohen Prize for Excellence in the Philosophy of Science, Boston University*
- 1997 *College Prize for Excellence in Psychology, Boston University*
- 1996 *Phi Beta Kappa, Boston University*
- 1996 *Honors in Philosophy, Boston University*

## TEACHING EXPERIENCE

### *Previous doctoral trainees*

- Paul Bulakowski PhD (Assistant professor, University of the Pacific, USA)
  - Awarded the chancellor teaching fellowship, UC Davis
  - Awarded T32 training fellowship, UC Berkeley
- Wes Chaney, Ph.D. (Industry)
- Kami Koldewyn PhD (Assistant professor, Bangor University, U.K.)
- Faraz Farzin PhD (Netflix)
  - Awarded an F31 NRSA predoctoral fellowship from NIH
  - Awarded the Social Sciences Dean's Doctoral Fellowship for Excellence
- Jason Fischer, PhD (Assistant professor, Johns Hopkins)
  - Awarded the Vision Sciences Society travel fellowship, 2009
  - Awarded the Gazzaniga Prize for best CNS poster at UC Davis, 2007
  - Awarded UCD Vision Sciences training grant graduate fellowship, 2007-2008
  - Awarded the Posner Prize, 30 hours of fMRI scan time at the IRC, UC Davis, 2007
- Jason Haberman PhD (Assistant professor, Rhodes College, USA)
  - Awarded the Social Sciences Dean's Doctoral Fellowship for Excellence
  - Awarded the Vision Sciences Society travel fellowship, 2008
  - Awarded the Gazzaniga prize for best CNS poster, 2008
- Steve Haroz, PhD (postdoc, Northwestern University)
  - "Best Paper" award winner (IEEE Info Viz Conference, 2012)
  - Poster award winner VSS 2013
- Anna Kosovicheva, PhD (postdoc, Northeastern University)
  - Awarded NSF graduate fellowship
- Alina Liberman, PhD (McKinsey & Co)
  - Awarded NSF graduate fellowship
  - Awarded NIH NRSA fellowship
- Santani Teng, PhD (Scientist, Smith Kettlewell)
  - Awarded the Human Brain Mapping (HBM) conference travel grant, 2008
- Benjamin Wolfe, PhD (postdoc, MIT)

Awarded NSF graduate fellowship  
Allie Yamanishi, (Research Associate, UCB)

*Postdoctoral trainees*

Gerrit Maus, PhD (currently Assistant professor, Nanyang Technical University)  
Alice Albrecht, PhD (currently Research Scientist, Yahoo Inc, USA)  
Amrita Puri, PhD (currently Assistant professor, University of Central Arkansas)  
Tim Sweeny, PhD (currently Assistant Professor, University of Denver, Colorado)  
Mauro Manassi, PhD (current postdoc)  
Allie Yamanishi (current postdoc)  
Shoko Kanaya (current postdoc)

*Current Graduate Students:*

Yang Bai, Ph.D. student, Psychology, UC Berkeley  
Ye Xia, Ph.D. student, Psychology, UC Berkeley  
Zhimin Chen, Ph.D. student, Psychology, UC Berkeley

Recent Graduate Student Committees (from >50): Darius Parvin (UCB Psych), Thomas Langlois (UCB Psych), Xia Ye (UCB Psych), Alan Cowin (UCB Psych), Santani Teng (UCB Psych), Rachel Denison (UCB HWNI), Sarah Hillenbrand (UCB HWNI), Wes Chaney (UCB VS), Anna Kosovicheva (UCB Psych), Brent Parsons (UCB VS), Alina Liberman (UCB HWNI), Benjamin Wolfe (UCB Psych), Dan Coates (UCB VS), Will Griscom (UCB Psych), Kenji Kobayashi (UCB HWNI), Christina Gambacorta (UCB HWNI), Paul Johnson (UCB BioE), Yang Bai (UCB Psych), Elise Piazza (UCB VS), Allison Yamanishi (UCB Psych), Steve Haroz (UC Davis CS), Peter Kohler (Dartmouth), Jessica Wright (Rutgers), Emily Cooper (UCB VS), Caterina Gratton (UCB HWNI), David Bressler (UCB VS), Jason Fischer (UCB Psych), Val Morash (UCB Psych), Bill Sprague (UCB VS), etc.

Undergraduate Alums (selected from > 30): Katherine Wood, Kelly Chang, David Bressler, Thomas Harp, Lica Iwaki; Elizabeth Louie; Kristyn Sanders; Nicole Spotswood.

*Courses Taught:*

Psychology C126, Perception, UC Berkeley: 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017  
Psychology 229, Cognitive Brain and Behavior, UC Berkeley: 2011, 2012, 2013  
Psychology 300, Teaching Psychology, UC Berkeley: 2011, 2012  
Psychology 192, Perception and Visual Art, UC Berkeley: 2011  
Psychology 131, Perception, UC Davis: 2005, 2006, 2007, 2008, 2009  
Psychology 231, Perception Graduate Laboratory, UC Davis: 2005, 2007, 2009  
Psychology 290, Perception Graduate Seminar, UC Davis: 2006, 2008  
Psychology 290, Perception Graduate Seminar, UC Berkeley: 2016

*Education and Outreach:*

Whitney lab outreach program, serving junior-high and high schools in underrepresented areas of Northern California. 2008-Present  
For details, see <http://www.whitneylaboutreach.com/>

## GRANTS & FELLOWSHIPS

*Neural mechanisms of perceptual localization (PI)*

2R01 EY018216	\$1,280,000 (total)
National Eye Institute, NIH	
<i>Neural Mechanisms of Visual Crowding (PI)</i>	
NSF 1245461	\$681,000 (total)
National Science Foundation (NSF Career award)	
<i>Neural and cognitive impairments in children with 22q deletion syndrome (Co-I)</i>	
NIH: NIMH R01 (PI Simon)	\$2,250,000 (total)
<i>Localizing Objects in Dynamic Scenes (PI)</i>	
R01 EY018216-01	\$1,250,000 (direct)
National Eye Institute, NIH	
<i>Visual Processing and Later Cognitive Effects in Infants with fragile X Syndrome (Co-I)</i>	
R01 HD056031-01 (PI Rivera)	\$1,000,000 (direct)
National Institute of Child Health and Human Development, NIH	
<i>Combined Human and Monkey Studies of Thalamo-Cortical Mechanisms in Attentional Control (Co-I)</i>	
NSF 0727115 (PI Mangun)	\$600,000 (total)
National Science Foundation	
<i>Brain Research Cooperation Program (PI)</i>	
BRCP: Whitney	\$10,000 (direct)
National Institute of Neurological Disorders and Stroke, NIH	
<i>Training program in vision science (faculty mentor, UC Davis)</i>	
NIH T32EY015387 (2008-2013)	
National Eye Institute, NIH	
<i>Vision research core grant (faculty member, UC Davis)</i>	
NIH P30EY012576 (2004-2009)	
National Eye Institute, NIH	
<i>UC Davis Presidential Undergraduate Fellowship (PUF) grant, 2007</i>	
Awarded to Kristyn Sanders (undergraduate student in Whitney Lab) and Whitney	
<i>UC Davis Undergraduate Instructional Improvement Program (UIIP) grant, 2005</i>	
Awarded by UC Davis to improve undergraduate education	
<i>National Research Service Award, Individual Postdoctoral Fellowship, 2001-2004</i>	
National Eye Institute, NIH	
<i>National Defense Science and Engineering Graduate Fellowship, 1999-2002</i>	
Department of Defense	
<i>Graduate Society Summer Fellowship, 2000</i>	
Harvard University	
<i>Psychophysics Research Grant, 1999, 2000</i>	
Department of Psychology, Harvard University	

## PROFESSIONAL ACTIVITIES & AFFILIATIONS

### Editorial Board (Action Editor):

*Vision Research 2008 - present*

*Public Library of Science (PLoS ONE) 2008 - 2015*

*Psychological Science 2015 - present*

*Nature Scientific Reports 2015 - present*

Associate Editor:

*The New Visual Neurosciences*. Werner & Chalupa. 2014. Oxford University Press.

Academic Editor (Consulting Editor):

*Public Library of Science Biology (PLoS Biology)*

Reviewer for:

*Behavioral & Brain Sciences, Biology Letters, Brain, Brain and Cognition, Brain Research, Cerebral Cortex, Cognition, Cognitive Brain Research, Current Biology, Developmental Science, Experimental Brain Research, Frontiers in Psychology, Human Brain Mapping, iPerception, Journal of Cognitive Neuropsychology, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception & Performance, Journal of Neurophysiology, Journal of Neuroscience, Journal of Neuroscience Methods, Journal of Vision, Nature, Nature Reviews Neuroscience, Neural Computation, Neuron, Neuroimage, Neuropsychologia, Neuroscience of Consciousness, Perception, Perception & Psychophysics, Proceedings of the National Academy of Sciences (PNAS), Psychological Bulletin, Psychological Research, Psychological Science, Psychonomic Bulletin & Review, Public Library of Science (PloS) Biology, PLoS Computational Biology, Public Library of Science (PloS ONE), Science, Spatial Vision, Trends in Neurosciences, Vision Research, Visual Cognition*

Grant Reviewer for:

*National Institutes of Health (NIH) (BBRP, CVP, F12A, F02B-D)  
National Science Foundation (NSF) (Cog Neuro panel)  
Netherlands Organization for Scientific Research (NOW), The Dutch Research Council  
Wellcome Trust (UK)*

Conference referee/moderator:

*Vision Sciences Society  
European Conference on Visual Perception  
Asia Pacific Conference on Vision*

Affiliations:

*Association for Research in Vision and Ophthalmology (ARVO); Vision Sciences Society (VSS); European Conference on Visual Perception (ECVP); American Psychological Association (APA); Association for Psychological Science (APS); Optical Society of America (OSA); Psychonomic Society (PSP); Society for Neuroscience (SfN); Cognitive Neuroscience Society (CNS); Visual Science Research Group, UC Davis; Neuroscience graduate group, UC Davis; Computer Science graduate group; UC Davis, Helen Wills Neuroscience Institute, UC Berkeley; Vision Science Graduate Program, UC Berkeley; Cognitive, Brain, and Behavior area, UC Berkeley; Change, Plasticity, and Development area, UC Berkeley*

Popular press coverage of Whitney lab research:

*NPR (morning edition), CBC, New York Times, NPR.org (online), Science Daily, LA Times, Slate, Livescience, Telegraph India, Yahoo News, KQED (NPR) radio and online, Pacific Standard, Daily Mail (UK), Eureka Alert, Scientific American, The Indian News, NDTV sports, ESPN, Scienceblogs, Telegraph (UK), Fox news, CNN, CBS, USA Today, NBC, Associated Press, Discover Magazine, etc.*

## PUBLICATIONS

° Denotes first authors who were trainees (undergrad/grad/postdoc) with D. Whitney

\* Denotes corresponding author

# #Cited over 300 times #Cited over 200 times

H-Index = 37

G-Index = 70

i-10 index = 70

### Refereed Journal Articles

°Puri, M., Farzin, F., & Whitney, D. (2018). Visual crowding with Mooney objects. Under revision.

°Puri, M., Whitney, D., Ranganath, C. (2018). Category expectation facilitates discrimination of complex objects. *In revision*.

°Yamanashi, A. & Whitney, D. (2018). The Desirability of Groups: Ensemble Perception Biases Ratings of Product Attractiveness. *Submitted*.

100. °Piazza, E., Theunissen, F., Wessel, D., & Whitney, D. (2018) Rapid Adaptation to the Timbre of Complex Sounds. *Submitted*.

°Lieberman, A., & Whitney, D. (2018). Serial dependence promotes the stability of perceived emotional expression in an identity-specific manner. (in revision, APP).

°Manassi, M. & Whitney, D. (2018). Multi-Level Crowding and the Paradox of Object Recognition in Clutter. In press. *Current Biology*.

°Chen, Z., Kosovicheva, A., Wolfe, B., Gorea, A., Cavanagh, P., Whitney, D. (2018). Unifying Visual Space Across the Right and Left Hemifields. *In Press, Psychological Science*.

°Kosovicheva, A. & Whitney, D. (2017). Stable individual signatures in the representation of visual space. *Current Biology*, 27, 681-701.

Kiyonaga, A., Scimeca, J., Bliss, D., Whitney, D. (2017). Serial dependence in perception, attention, and memory. *Trends in Cognitive Sciences*.

Whitney, D. & Yamanashi, A. (2017). Ensemble perception. *Annual Review of Psychology*. 2017.

°Manassi, M. & Whitney, D. (2017). The perceived stability of scenes: serial dependence in ensemble representations. *In Press, Nature Scientific Reports*.

°Maus, G., Duyck, M., Lisi, M., Collins, T., Whitney, D., Cavanagh, P. (2017). Target displacements during eye blinks trigger automatic recalibration of gaze direction. *Current Biology*, 27, 1-6.

°Chen, Z., Dennison, R., Whitney, D., Maus, G. (2017). Perceptual alternations in the absence of retinal image conflict. *Journal of Vision*, 17, 8, 1-15.

90. °Xia, Y, & Whitney, D. (2016). Serial dependence of perceived attractiveness. *JoV*, 16, 28, 1-15.

- °Liberman, A., Zhang, K., & Whitney, D. (2016). Serial Dependence Promotes Object Stability During Occlusion. *JoV*, 16, 16, 1-10.
- °Sweeny, T. & Whitney, D. (2017). The center of attention: Metamers, sensitivity, and bias in the emergent perception of gaze. *Vision Research*, 131, 67-74.
- °Yamanashi, A., Kosovicheva, A., & Whitney, D. (2016). Fast ensemble representations for abstract visual impressions. *Nature Communications*, 13186, 1-10.
- °Maus, G. & Whitney, D. (2016). Motion-dependent filling-in of spatiotemporal information at the blind spot. *Public Library of Science ONE*, 11, 4, 1-10.
- °Haberman, J., Lee, P., & Whitney, D. (2015). Mixed emotions: sensitivity to facial variance in crowds. *Journal of Vision*, 15, 4, 1-11.
- °Bai, Y., Yamanishi-Leib, A., Puri, A., Whitney, D., & Peng, K. (2015). Gender differences in the perception of group identity. *Frontiers in Psychology, Personality and Social Psychology*, 6, 1300, 1-12.
- °Wolfe, B., Kosovicheva, A., Yamanashi-Leib, A., Wood, K., & Whitney, D. (2015). Foveal input is not required for perception of crowd facial expression. *Journal of Vision*, 15, 4, 1-13.
- °Sweeny, T., Wurnitsch, N., Gopnik, A., Whitney, D. (2015). Ensemble perception of size in 3-5 year-old children. *Developmental Science*, 18, 4, 556-568.
- °Liberman, A., Fischer, J., & Whitney, D. (2014). Serial dependence in the perception of faces. *Current Biology*, 24, 1-6.
80. °Chaney, W., Fischer, J.T. & Whitney, D. (2014). The sparse selection model of visual crowding. *Frontiers in Integrative Neuroscience*, 8, 73, 1-11.
- °Sweeny, T. & Whitney, D. (2014). Ensemble gaze perception. *Psychological Science*, 25, 1903-1913.
- °Yamanishi-Leib, A., Fischer, J., Liu, Y. Robertson, L., & Whitney, D. (2014). Ensemble Crowd Perception: A Viewpoint-Invariant Mechanism to Represent Average Crowd Identity. *Journal of Vision*, 14, 26, 1-13.
- #°Fischer, J.T. & Whitney, D. (2014). Serial dependence in perception. *Nature Neuroscience*, 17, 733-743.
- Arnold, D., Marinovic, W., & Whitney, D. (2014). Patterns of summation around retinal motion do not provide evidence for a perceptually explicit predictive signal. *Vision Research*, 98, 99-106.
- °Wolfe, B., & Whitney, D. (2014). Presaccadic attention releases crowding. *Frontiers in Human Neuroscience*, 8, 103, 1-10.

°Kosovicheva, A., Wolfe, B., & Whitney, D. (2014). Visual motion shifts saccade targets. *Attention, Perception, & Psychophysics*, 2014/6/3, 1-11.

Kristjánsson, A., Heimisson P., Róbertsson, G., & Whitney, D. (2013). Attentional priming releases crowding. *Attention, Perception, & Psychophysics*, 75, 7, 1323-1329.

°Maus, G., Liberman, A., Chaney, W., & Whitney, D. (2013). Illusion of an illusion? The challenge of measuring long-term positive aftereffects. *Current Biology*, 23, 10, 438-439.

°Maus, G., Fischer, J.T., & Whitney, D. (2013). Motion dependent spatial representations in area MT+. *Neuron*, 78, 554-562.

70. °Piazza, E., Sweeny, T., Wessel, D., Silver, M., & Whitney, D. (2013). Humans use summary statistics to perceive auditory sequences. *Psychological Science*, 24(8), 1389-1397.

°Sweeny, T., Wurnitsch, N., Gopnik, A., Whitney, D. (2013). Sensitive perception of a person's direction of walking by 4-year-old children. *Developmental Psychology*, 49(11), 2120-4.

°Fischer, J.T. & Whitney, D. (2012). Attention gates visual coding in the human pulvinar. *Nature Communications*, 3, 1051. DOI: 10.1038/ncomms2054

°Kosovicheva, A. A., Maus, G. W., Anstis, S., Cavanagh, P., Tse, P. U., & Whitey, D. (2012). The motion-induced shift in the perceived location of a grating also shifts its aftereffect. *Journal of Vision*, 12, 8, 1-7.

°Haroz, S. & Whitney, D. (2012). How Capacity Limits of Attention Influence Information Visualization Effectiveness. *IEEE Transactions on Visualization and Computer Graphics*, 18, 2402-2410. [Awarded best paper at the IEEE Information Visualization Conference]

°Sweeny, T., Haroz, S., Whitney, D. (2012). Perceptual repulsion reveals categorical perception of biological motion. *Vision Research*, 64, 26-34.

Yamanishi, A., Puri, M., Fischer, J., Bentin, S., Whitney, D., Robertson, L. (2012). Crowd Perception in Prosopagnosia. *Neuropsychologia*, 50, 1698-707.

°Sweeny, T., Haroz, S., Whitney, D. (2012). Perceiving group behavior: Sensitive ensemble coding mechanisms for biological motion of human crowds. *Journal of Experimental Psychology: Human Perception and Performance*, 39 (2), 329-338.

Post, R. B., Haberman, J., Iwaki, L., Whitney, D. (2012). The frozen face effect: Why static photographs do not do you justice. *Frontiers in Cognition*, 3, 22, 1-11.

°Corbett, J., Wurnitsch, N., Schwartz, A., & Whitney, D. (2012). A negative average size aftereffect. *Visual Cognition*, 20, p 211-231.

60. °Maus, G., Ward, J., Nijhawan, R., & Whitney, D. (2012). TMS to MT+ reduces the flash lag effect. *Cerebral Cortex*, DOI: 10.1093/cercor/bhs021.



- °Teng, S., Puri., A., & Whitney, D. (2012). Ultrafine spatial acuity of blind expert human echolocators. *Experimental Brain Research*, 216, 483-8.
- Fukiage, T., Whitney, D., Murakami, I. (2011). A flash-drag effect in random motion reveals involvement of preattentive motion processing. *Journal of Vision*, 11(13), p. 1-12. doi: 10.1167/11.13.12.
- °Farzin, F., Rivera, S., Whitney, D. (2011). Resolution of spatial and temporal visual attention in infants with fragile X syndrome. *Brain*, 134, 3355-68.
- °Haberman, J. & Whitney, D. (2011). Efficient summary statistical representation when change detection fails. *Psychonomic Bulletin & Review*, 18, 855-9.
- °Fischer, J.T. & Whitney, D. (2011). Object level information gets through the bottleneck of crowding. *Journal of Neurophysiology*, 106, 1389–1398.
- °Farzin, F., Rivera, S., Whitney, D. (2011). Time crawls: the temporal resolution of infant visual attention. *Psychological Science*, 22, 1004-10.
- °Maus, G., Fischer, J.T., & Whitney, D. (2011). Crowding is determined by perceived position. *PLoS ONE*, 6(5): e19796, p 1-8.
- ##Whitney, D. & Levi, D.M. (2011). Visual Crowding: a fundamental limit on conscious perception and object recognition. *Trends in Cognitive Sciences*. 15(4):160-8.
- Tse, P., Whitney, D., Anstis, S., Cavanagh, P. (2011). Voluntary attention modulates motion-induced mislocalization. *Journal of Vision*, 11, 3, 1-12.
50. °Koldewyn, K., Whitney, D., Rivera, S. (2011). Neural Correlates of Coherent and Biological Motion Perception in Autism. *Developmental Science*, 14, 1075-88
- °Corbett, J., Fischer, J., & Whitney, D. (2011). Facilitating stable representations: serial dependence in vision. *PLoS ONE*, 6(1): e16701, 1-7.
- °Bulakowski, P., Post, R., & Whitney, D. (2011). Reexamining the possible benefits of visual crowding: Dissociating crowding from ensemble percepts. *Attention, Perception, & Psychophysics*, 73, 1003-9.
- °Teng, S., & Whitney, D. (2011). The Acuity of Echolocation: Spatial Resolution in Sighted Persons Compared to the Performance of an Expert Who Is Blind. *Journal of Visual Impairment and Blindness*, 105, 1, 20-31.
- °Fischer, J.T., Spotswood, N., & Whitney, D. (2011). The emergence of perceived position in the visual system. *Journal of Cognitive Neuroscience*, 23, 119-36.
- °Haberman, J. & Whitney, D. (2010). The visual system discounts emotional deviants when extracting average expression. *Atten Percept Psychophys*, 72, 1825-38.

°Farzin, F., Rivera, S., Whitney, D. (2010). The resolution of conscious visual perception in infants. *Psychological Science, 21*, 1502-1509.

#°Koldewyn, K., Whitney, D., Rivera, S. (2010). The psychophysics of visual motion and global form processing in autism. *Brain, 133*, 2, 599-610.

°Bulakowski, P., Post, R., & Whitney, D. (2009). Visuomotor crowding: the spatial resolution of grasping in cluttered scenes. *Frontiers in Behavioral Neuroscience, 3*, 49, 1-7.

°Haberman, J., Harp, T., Whitney, D. (2009). The visual system averages facial expression over time. *Journal of Vision, 9*, 11, 1, 1-13.

40. °Fischer, JT & Whitney, D. (2009). Attention narrows position tuning of population responses in human V1. *Current Biology, 19*, 1356-1361.

°Farzin, F., Rivera, S., Whitney, D. (2009). Holistic crowding of Mooney faces. *Journal of Vision, 9*, 6, 18, 1-15.

°Fischer, JT & Whitney, D. (2009). Precise discrimination of object position in the human pulvinar. *Human Brain Mapping, 30*, 101-111. (Epub ahead of print, 2007)

#°Haberman, J. & Whitney, D. (2009). Seeing the mean: ensemble coding for sets of faces. *Journal of Experimental Psychology: Human Perception & Performance, 35*, 718-734.

Post, R. B., Welch, R. B., Whitney, D. (2008). Egocentric and Allocentric Localization During Induced Motion. *Exp Brain Res, 191*, 495-504.

Whitney, D.\*, Wurnitsch, N., Hontiveros, B., Louie, L. (2008). Perceptual mislocalization of bouncing balls by professional tennis referees. *Current Biology, 18*, 947-9.

°Farzin, F., Whitney, D., Hagerman, R., Rivera, S. (2008). Contrast Detection in Infants with Fragile X Syndrome. *Vision Research, 48*, 1471-1478.

Whitney, D.\* (2008). Visuomotor extrapolation. *Behavioral & Brain Sciences, 31*, 220-221.

Hancock, S., Whitney, D., & Andrews, T.\* (2008). The initial interactions underlying binocular rivalry require visual awareness. *Journal of Vision, 8*, 1, 3, 1-9.

#°Louie, E., Bressler, D., & Whitney, D.\* (2007). Holistic crowding: selective interference between configural representations of faces in crowded scenes. *Journal of Vision, 7*, 2, 24, 1-11.

30. #°Haberman, J. & Whitney, D. (2007). Rapid extraction of mean emotion and gender from sets of faces. *Current Biology, 17*, 751-753.

°Bressler, D., Spotswood, N., & Whitney, D.\* (2007). Negative BOLD fMRI response in the visual cortex carries precise stimulus specific information. *PLoS ONE, 2*, e410.

°Harp, T., Bressler, D., & Whitney, D.\* (2007). Position shifts following crowded second order motion adaptation reveal processing of local and global motion without awareness. *Journal of*

*Vision, 7, 2, 15, 1-9.*

Whitney, D.\*, Ellison, A., Rice, N., Goodale, M., Walsh, V., Milner, A. (2007). Visually guided reaching depends on motion area MT+. *Cerebral Cortex, 17, 2644-9.*

°Bulakowski, P.\*, Bressler, D., & Whitney, D. (2007). Shared attentional resources for global and local motion processing. *Journal of Vision, 7, 10, 10, 1-10.*

°Bulakowski, P., Koldewyn, K., & Whitney, D.\* (2007). Independent coding of object motion and position revealed by distinct contingent aftereffects. *Vision Research, 47, 810-817.*

Whitney, D.\* & Bressler, D. (2007). Second order motion without awareness: passive adaptation to second-order motion produces a motion aftereffect. *Vision Research, 47, 567-579.*

Whitney, D.\* & Bressler, D. (2007). Spatially asymmetric response to moving patterns in the visual cortex: re-examining the local sign hypothesis. *Vision Research, 47, 50-59.*

Whitney, D.\* (2006). Contribution of bottom-up and top-down motion processes to perceived position. *J. Exp Psychology: Human Perception & Performance, 32, 1380-1397.*

°Bressler, D. & Whitney, D.\* (2006). Second order motion shifts perceived position. *Vision Research, 46, 1120-1128.*

20. Whitney, D.\* (2005). Motion distorts perceived position without awareness of motion. *Current Biology, 15(9), 324-326.*

Whitney, D.\* & Goodale, M. A. (2005). Visual motion due to eye movements helps guide the hand. *Experimental Brain Research, 162, 394-400.*

#Whitney, D.\*, Goltz, H. C., Thomas, C. G., Gati, J., Menon, R., & Goodale, M. A. (2003). Flexible retinotopy: Motion dependent position coding in the visual cortex. *Science, 302, 878-881.*

Whitney, D.\* & Cavanagh, P. (2003). Motion adaptation shifts apparent position without the motion aftereffect. *Perception & Psychophysics, 65, 1011-1018.*

#Whitney, D.\*, Westwood, D. A., & Goodale, M. A. (2003a). The influence of visual motion on fast reaching movements to a stationary object. *Nature, 423, 869-873.*

#Whitney, D.\* (2002a). The influence of visual motion on perceived position. *Trends in Cognitive Sciences, 6, 211-216.*

Whitney, D.\* & Cavanagh, P. (2002). Surrounding motion affects the perceived locations of moving stimuli. *Visual Cognition, 9, 139-152.*

Whitney, D.\* & Cavanagh, P. (2000b). The position of moving objects. *Science, 289, 1107a.*

#Whitney, D.\* & Cavanagh, P. (2000a). Motion distorts visual space: Shifting the perceived positions of remote stationary objects. *Nature Neuroscience, 3, 954-959.*

Whitney, D.\*, Cavanagh, P., & Murakami, I. (2000). Temporal facilitation for moving stimuli is independent of changes in direction. *Vision Research*, 40, 3829-3839.

10. #Whitney, D.\*, Murakami, I., & Cavanagh, P. (2000). Illusory spatial offset of a flash relative to a moving stimulus is caused by differential latencies for moving and flashed stimuli. *Vision Research*, 40, 137-149.

##Whitney, D.\* & Murakami, I. (1998). Latency difference, not spatial extrapolation. *Nature Neuroscience*, 1, 656-657.

#### Book Chapters and Reviews

Whitney, D. Sweeny, T., & Haberman, J. (2013). From textures to crowds: multiple levels of summary statistical perception. In, *The New Visual Neurosciences*. Werner & Chalupa (Eds). Oxford University Press.

Whitney, D. (2009). Vision: seeing through the gaps in the crowd. *Current Biology*, 19, 1075-76.

°Haberman, J. & Whitney, D. (2009). Ensemble perception. In, *Festschrift in honor of Anne Treisman, Wolfe, J & Robertson, L.* (Eds).

Whitney, D., Murakami, I., Gomi, H. (2010). The utility of visual motion for goal directed reaching. In, *Space and time in perception and action*. Cambridge: Cambridge University Press.

Whitney, D. Toward unbinding the binding problem. (2009). *Current Biology*, 19, 251-3.

Whitney, D. (2005). Review of “*Ways of Seeing*,” by Jacob and Jeannerod. *Perception*, 34, 763-764.

Arnold, D.A. & Whitney, D. (2005). Adaptation and perceptual binding in sight and sound. In, *Fitting the Mind to the World: Adaptation and Aftereffects in High-Level Vision*. Clifford, C. & Rhodes, G. (Eds.)

Whitney, D. (2004). Integrating Basic and Applied Vision Research. *Contemporary Psychology; PsyCritiques*. DOI: 10.1037/004409

#### CONFERENCE PRESENTATIONS

Whitney, D. (2016). The Continuity Field: a mechanism of perceptual stability via serial dependence. Invited talk presented at Peking University, November, 2016.

Whitney, D. (2016). The Continuity Field (CF): a mechanism of perceptual stability via serial dependence. Invited talk presented at symposium, *European Conference on Visual Perception (ECVP)*. Barcelona, Spain. August, 2016.

Whitney, D. (2016). Fast ensemble representations for abstract visual impressions. Invited talk presented at International Computer Science Institute (ICSI), Berkeley, USA, June, 2016.

Whitney, D. (2016). The Continuity Field (CF): a mechanism of perceptual stability via serial dependence. Invited talk presented at the *International Conference on Psychology (ICP)*. Tokyo, Japan. July, 2016.

Piazza, E., Theunissen, F., Wessel, D., & Whitney, D. (2016). Rapid Adaptation to the Timbre of Complex Sounds. *International conference on music perception and cognition*. San Francisco, USA. July, 2016.

Whitney 2016 Vision Sciences Society presentations x 5. Liberman; Yamanashi; Xia; Zhang; Chaney.

Whitney, D. (2015). The perception of crowds. Invited talk presented at *The Japanese Vision Sciences Society meeting, Toyko, Japan, July, 2015*

Whitney, D. (2015). The perception of crowds. Invited talk presented at *The Contents of Consciousness. Manchester, U.K., July, 2015*

Whitney, D. (2015). Objects, crowds, and the dualism of perceptual experience. Invited talk presented at *The Association for the Scientific Study of Consciousness (ASSC). Paris, France, July 2015.*

Whitney, D. (2015). How do the limits of the brain impact travel experience. Invited talk presented at the *Nanxun Global Forum on Travel. Nanxun, China, July 2015.*

Whitney, D. (2015). Emergent visuo-social perception. Invited panel discussant at the *3rd China International Conference on Positive Psychology. Beijing, China, July 2015.*

Wood, Kosovicheva, Wolfe, Whitney (2015). Speeded Breakthrough of Faces in Interocular Suppression Requires Configural Information. *Journal of Vision*. September 2015, Vol.15, 148. doi:10.1167/15.12.148

Chen, Denison, Whitney, Maus (2015). Ambiguous filling-in at the blind spot resolved through perceptual rivalry. *Journal of Vision* September 2015, Vol.15, 272. doi:10.1167/15.12.272

130. Kosovicheva, Wolfe, Cavanagh, Gorea, Whitney (2015). Dynamic recalibration of perceived space across the visual hemifields. *Journal of Vision* September 2015, Vol.15, 526. doi:10.1167/15.12.526

Wolfe, Whitney (2015). Object-selective processing of remapped information. *Journal of Vision* September 2015, Vol.15, 601. doi:10.1167/15.12.601

Liberman, Whitney (2015). The serial dependence of perceived emotional expression. *Journal of Vision* September 2015, Vol.15, 929. doi:10.1167/15.12.929

Chang, Yamanashi Leib, Whitney (2015). Tracking Emotional Expressions in Dynamically Changing Crowds. *Journal of Vision* September 2015, Vol.15, 136. doi:10.1167/15.12.136

Yamanashi Leib, Kosovicheva, Whitney (2015). Perceiving the lifelikeness of crowds: summary statistical representations of abstract visual dimensions. *Journal of Vision* September 2015, Vol.15, 1098. doi:10.1167/15.12.1098

Cavanagh, Duyck, Eymond, Maus, Schumann, Störmer, Veenemans, Whitney, Wu (2015). Feeling the future. *Journal of Vision* September 2015, Vol.15, 1177. doi:10.1167/15.12.1177

Xia, Liberman, Yamanashi Leib, Whitney (2015). Serial Dependence in the perception of attractiveness. *Journal of Vision* September 2015, Vol.15, 1219. doi:10.1167/15.12.1219

Zhang, Liberman, Whitney (2015). The role of the continuity field: Serial dependence promotes object stability during occlusion. *Journal of Vision* September 2015, Vol.15, 1228. doi:10.1167/15.12.1228

Maus, Cavanagh, Collins, Duyck, Lisi, Wexler, Whitney (2015). Target displacements during blinks trigger corrective gaze adaptation. *Journal of Vision* September 2015, Vol.15, 1308. doi:10.1167/15.12.1308

Whitney, D. (2014). Perceiving crowds. Invited talk presented at *The Ninth IEEE Computer Society Workshop on Perceptual Organization in Computer Vision. Computer Vision and Pattern Recognition (CVPR). Columbus, Ohio.*

120. Whitney, D. (2014). The bottleneck of conscious vision. Invited talk presented at *The International Symposium on Brainware LSI. Research Institute of Electrical Communication, Tohoku University, Sendai, Japan.*

Piazza, E. A., Sweeny, T. D., Wessel, D., Silver, M. A., & Whitney, D. (2013). Auditory ensemble coding: an efficient mechanism for perceiving tone sequences. Oral presentation at the *Society for Music Perception and Cognition, Toronto, Ontario, Canada.*

Piazza, E. A., Denison, R. N., Sweeny, T., Sheynin, J., Silver, M. A., & Whitney, D. (2014). The optimal time scale of statistical summary in human auditory perception. Oral presentation at the *44th Annual Meeting of the Society for Neuroscience, Washington, D.C.*

Maus, G., Whitney, D. (2014). Motion-dependent filling-in at the blind spot. *Vision Sciences Society.*

Wood, K., Wolfe, B., Kosovicheva, A., Whitney, D. (2014). Foveal input is not required for ensemble coding of emotional faces. *Vision Sciences Society.*

Haroz, S., Prinzmetal, W., Whitney, D. (2014). Serial search can occur in multiple feature dimensions at the same time. *Vision Sciences Society.*

Sweeny, T., Wurnitsch, N., Bridgers, S., Gopnik, A., Whitney, D. (2014). Ensemble perception of size in 4-5 year old children. *Vision Sciences Society.*

Yamanishi-Leib, A., Bai, Y., Kosovicheva, A., Chang, Puri, A., Robertson, L., Whitney, D. (2014). Ensemble perception of multiple crowd characteristics. *Vision Sciences Society.*

Kosovicheva, A., Whitney, D. (2014). Stable individual distortions in the perceived location of

static stimuli. *Vision Sciences Society*.

Chaney, W., Maus, G., Fischer, J., Whitney, D. (2014). Spatial attention reduces correlated noise in the fMRI response. *Vision Sciences Society*.

110. Wolfe, B., Whitney, D. (2014). Saccadic remapping of object-selective information. *Vision Sciences Society*.

Lieberman, Kosovicheva, Whitney. (2014). Serial Dependence of Position Perception. *Vision Sciences Society*.

Piazza, E. Sweeny, T., Wessel, D., Silver, M., Whitney, D. (2013). Auditory ensemble coding: An efficient mechanism for perceiving tone sequences. *Society for Music Perception and Cognition*.

Sweeny, T., Kayser, T., Gonzalez, E., & Whitney, D. (2013). Revisiting the Wollaston Illusion: Categorical perception of gaze. *Vision Sciences Society*.

Wolfe, B., Kosovicheva, A., Yamanishi, A., & Whitney, D. (2013). Ensemble Coding and Eye Movements. *Vision Sciences Society*.

Haroz, S., Whitney, D. (2013). Global – Not Local – Variance Impacts Search. *Vision Sciences Society*.

Lieberman, A., Whitney, D. (2013). Tracking Serial Dependence Behind an Occluder. *Vision Sciences Society*

Kosovicheva, A., Whitney, D. (2013). A meridional anisotropy of the flash-drag effect. *Vision Sciences Society*.

Yamanashi Leib, A., Fischer, J., Liu, Y., Whitney, D., & Robertson, L. (2013). A Viewpoint Invariant Mechanism to Represent Average Crowd Identity. *Vision Sciences Society*.

Kosovicheva, A., Whitney, D. (2012). Effects of motion –induced perceptual mislocalizations on saccade landing position. *Vision Sciences Society*.

100. Lieberman, A., Fischer, J., Whitney, D. (2012). Serial dependence of face identity. *Vision Sciences Society*

Chaney, W., Levi, D., & Whitney, D. (2012). Lighting interpretation within scenes affects crowding. *Vision Sciences Society*.

Sweeny, T., Haroz, S., Whitney, D. (2012). Just walk away: reference repulsion in the perception of crowd behavior. *Vision Sciences Society*.

Wolfe, B., Whitney, D. (2012). Presaccadic foveal priming diminishes crowding. *Vision Sciences Society*.

Maus, G., Ivry, R., Whitney, D. (2012). The flash-lag effect is reduced in patients with cerebellar atrophy. *Vision Sciences Society*.

Fischer, J., & Whitney, D. (2012). The spatial tuning of perceptual serial dependence. *Vision*

*Sciences Society.*

Piazza, E., Sweeny, T., Wessel, D., & Whitney, D. (2011). Ensemble coding in audition. Oral presentation at the *12th International Multisensory Research Forum*, Fukuoka, Japan.

Whitney, D., Haberman, J., Harp, T. (2011). The desirability of groups. *Cognitive Science and Interdisciplinary Learning* annual conference.

Tse, P., Whitney, D., Anstis, S., & Cavanagh, P., (2011). Voluntary attention modulates motion-induced mislocalization. *Vision Sciences Society.*

Fukiage, T., Whitney, D., & Murakami, I., (2011). A flash-drag effect in random motion reveals involvement of preattentive motion processing. *Vision Sciences Society.*

Wurnitsch, N., Maus, G., Bulakowski, P., & Whitney, D., (2011). Collisions are seen before they are heard. *Vision Sciences Society.*

90. Maus, G., Li, J., & Whitney, D., (2011). Asymmetric spatial distortions of moving objects. *Vision Sciences Society.*

Teng, S. & Whitney, D., (2011). The auditory flash-drag effect: Distortion of auditory space by visual motion. *Vision Sciences Society.*

Kosovicheva, A., Maus, G., Anstis, S., Cavanagh, P., Tse, P., & Whitney, D., (2011). The motion-induced shift in the perceived location of a grating also shifts the aftereffect. *Vision Sciences Society.*

Wolfe, B., & Whitney, D., (2011). Egocentric but not allocentric perceptual distortions from saccadic adaptation. *Vision Sciences Society.*

Yamanashi Leib, A., Puri, A., Bentin, A., Whitney, D., & Robertson, L. (2011). Ensemble Encoding in Congenital Prosopagnosia. *Vision Sciences Society.*

Sweeny, T., Haroz, S., & Whitney, D. (2011). Seeing the direction of a crowd: Ensemble coding of biological motion. *Vision Sciences Society.*

Fischer, J., Shankey, J., & Whitney, D. (2011). Serial dependence in visual perception. *Vision Sciences Society.*

Shankey, J., Fischer, J., & Whitney, D. (2011). Perceptual serial dependence: Perceived orientation is attracted to previously attended orientations. *Cognitive Neuroscience Society.*

Teng, S., Puri, A., & Whitney, D. (2011). Fine spatial grain of human echolocation rivals peripheral vision. *Cognitive Neuroscience Society.*

Whitney, D. (2010). The spatial resolution of conscious vision: crowding in infants and adults. *Cognitive Science Association for Interdisciplinary Learning*, Hood River, Oregon.

80. Maus, G. & Whitney, D. (2010). Crowded by drifting Gabors: Is crowding based on physical or perceived stimulus position? *Vision Sciences Society.*



Puri, A. Morris, S., Haberman, J., Fischer, J., & Whitney, D. (2010). Effects of high-level ensemble representations on visual search. *Vision Sciences Society*.

Dziuk, A., Haberman, J. & Whitney, D. (2009). Increasing variance in emotional expression in a crowd of faces reduces sensitivity to the average face. *Vision Sciences Society*.

Haberman, J. & Whitney, D. (2009). The visual system ignores outliers when extracting a summary representation. *Vision Sciences Society*.

Bulakowski, P., Bressler, D., Post, R., & Whitney, D. (2009). Does semantic information survive crowding? *Vision Sciences Society*.

Fischer, J. & Whitney, D. (2009). Attention gates spatial coding in the human pulvinar. *Vision Sciences Society*.

Maus, G., Hutton, S., Nijhawan, R., Whitney, D., & Ward, J. (2009). Reduction of the flash-lag effect with TMS over MT/V5. *Vision Sciences Society*.

Corbett, J., Fischer, J. & Whitney, D. (2009). Averaging independent estimates improves pattern recognition. *Vision Sciences Society*.

Farzin, F., Rivera, S., Sakai, S., & Whitney, D. (2009). Temporal Limit of Phase Discrimination in Infants. *Vision Sciences Society*.

Puri, A., Haberman, J., & Whitney, D. (2009). Do summary statistics influence visual search? *Vision Sciences Society*.

70. Harp, T., Haberman, J. & Whitney, D. (2009). Grouping oranges affects their overall appeal. *Vision Sciences Society*

Wurnitsch, N., Corbett, J., & Whitney, D. (2009). A negative adaptation after-effect of mean size. *Vision Sciences Society*.

Haberman, J. & Whitney, D. (2009). Sensitivity to emotional variance in a texture of faces. *Cognitive Neuroscience Society*.

Fischer, J. & Whitney, D. (2009). Higher-level visual areas encode perceived object position. *Cognitive Neuroscience Society*.

Puri, A., Farzin, F., & Whitney, D. (2009). Visual traffic jams: crowding of two-tone cars. *Cognitive Neuroscience Society*.

Corbett, J. & Whitney, D. (2009). Left versus right visual field asymmetry in texture density judgments. *Cognitive Neuroscience Society*.

Xia, G. & Whitney, D. (2009) Improvement of Anxiety Symptoms During rTMS Treatment of Bipolar Depression. *Anxiety Disorders Association of America*.

Fischer, J. & Whitney, D. (2008). Attention narrows population tuning for object position in human V1. *Bay Area Vision Research Day; Berkeley, CA.*

Koldewyn, K., Whitney, D., Rivera, S. (2008). Visual motion processing deficits in autism: “top-down” or “bottom up” ? *Society for Neuroscience.* 346.4/V23

Fischer, J. & Whitney, D. (2008). Task-dependent functional connectivity between the pulvinar and working memory circuits. *European Conference on Visual Perception Meeting.*

60. Fischer, J. T. & Whitney, D. (2008). The emergence of perceived position in the visual system. *Society for Neuroscience.* 215.11

Whitney, D. & Haberman, J. (2008). Summary statistical representation of high level objects: Pooling faces. *Asia Pacific Conference on Vision.*

Teng, S. & Whitney, D. (2008). Disruption of position discrimination of auditory stimuli in using TMS. *Human Brain Mapping.*

Fischer, J. & Whitney, D. (2008). A crowded face influences the ensemble representation of a set of faces. *Vision Sciences Society.*

Koldewyn, K., Whitney, D., Rivera, S. (2008). Neural correlates of coherent and biological motion perception deficits in Autism. *Vision Sciences Society.*

Haberman, J. & Whitney, D. (2008). Search for mean(ing): Parallel processes mediate ensemble coding. *Vision Sciences Society.*

Sanders, K., Haberman, J. & Whitney, D. (2008). Mean representation beyond a shadow of a doubt: summary statistical representation of shadows and lighting direction. *Vision Sciences Society.*

Iwaki, L., Haberman, J., Post, R.B., & Whitney, D. (2008). The Frozen Face Effect: Why Static Photographs Don't Do You Justice. *Vision Sciences Society.*

Puri, A., Whitney, D., & Ranganath, C. (2008). Facilitatory effects of expectation on object discrimination. *Vision Sciences Society.*

Harp, T., Haberman, J., & Whitney, D. (2008). Temporal integration of high-level summary statistical representation. *Vision Sciences Society.*

50. Bulakowski, P., Post, R.B., & Whitney, D. (2008). Differential spatial integration for perception and action revealed by perceptual and visuomotor crowding. *Vision Sciences Society.*

Farzin, F., Whitney, D., Rivera, S. (2008). Holistic face processing in infants using Mooney faces. *Vision Sciences Society.*

Teng, S. & Whitney, D. (2008). Position discrimination of auditory stimuli in early visual cortex. *Vision Sciences Society.*

Koldewyn, K., Whitney, D., Rivera, S. (2008). Neural correlates of coherent and biological motion perception deficits in Autism. *International Meeting for Autism Research*.

Haberman, J. & Whitney, D. (2008). Bypassing the bottleneck: ensemble coding happens automatically even when change blindness occurs. *Cognitive Neuroscience Society*.

Fischer, J. & Whitney, D. (2008). Attention narrows position tuning in early visual areas. *Cognitive Neuroscience Society*.

Louie, E., Wurnitsch, N., Hontiveros, B., & Whitney, D. (2008). Unforced error: systematic mislocalization of tennis balls by professional referees. *Cognitive Neuroscience Society*.

Teng, S., Hill, K., Miller, L., & Whitney, D. (2008). Fine spatial representation of auditory location by an occipito-parietal network. *Cognitive Neuroscience Society*.

Koldewyn, K., Whitney, D., Rivera, S. (2007). Neural bases of visual motion perception deficits in autism. *Society for Neuroscience*.

Haberman, J. & Whitney, D. (2007). Face value: What we get from a crowd of faces. *Association for the Scientific Study of Consciousness*.

40. Bulakowski, P., Post, RB., & Whitney, D. (2007). Temporal properties of monocular and dichoptic crowding. *Cognitive Neuroscience Society*.

Bulakowski, P., Post, RB., & Whitney, D. (2007). Visual and visumotor crowding. *Vision Sciences Society, 7*, 134.

Louie, E & Whitney, D. (2007). Precise discrimination of position in object-selective regions of human visual cortex. *Vision Sciences Society, 7*, 294.

Puri, M., Whitney, D., Ranganath, C. (2007). Category expectation facilitates discrimination of complex objects. *Vision Sciences Society, 7*, 140.

Farzin, F., Whitney, D., Hagerman, R., & Rivera, S. (2007). Visual processing in infants with fragile X syndrome. *Vision Sciences Society, 7*, 163.

Spotswood, N. & Whitney, D. (2007). Visual motion area MT+ carries precise information about object position. *Vision Sciences Society, 7*, 130.

Haberman, J. & Whitney, D. (2007). Saving face: Extracting summary statistics from a set of faces. *Vision Sciences Society, 7*, 256.

Haberman, J. & Whitney, D. (2007). Precise estimation of mean emotion in crowds of faces. *Cognitive Neuroscience Society*.

Teng, S. & Whitney, D. (2007). Auditory stimuli elicit spatially specific responses in visual cortex. *Vision Sciences Society, 7*, 105.

Teng, S. & Whitney, D. (2007). Spatiotopic organization in cortical representation of auditory stimuli. *Cognitive Neuroscience Society*.

30. Fischer, J. & Whitney, D. (2007). Precise topographic encoding of visual stimuli in the human pulvinar. *Vision Sciences Society*, 7, 83.

Fischer, J. & Whitney, D. (2007). Spatial Topography and Attentional Modulation in the Human Pulvinar. *Cognitive Neuroscience Society*.

Farzin, F., Whitney, D., Hagerman, R., & Rivera, S. (2007). Visual Development in Infants with Fragile X Syndrome. *Society for Research in Child Development*.

Bressler, D. Louie, E., & Whitney, D. (2006). The effect of crowding on face recognition. *Cognitive Neuroscience Society*.

Bulakowski, P., Bressler, D., & Whitney, D. (2006). Shared attentional resources for global and local motion processing. *Cognitive Neuroscience Society*.

Bressler, D. & Whitney, D. (2006). Holistic crowding: selective interference between configural representations of faces in crowded scenes. *Vision Sciences Society*.

Bulakowski, P., Koldewyn, K., & Whitney, D. (2006). Asynchronous perception of object motion and position reveals independent processing. *Vision Sciences Society*.

Whitney, D. & Bressler, D. (2006). The precision of position coding in the visual cortex. *Vision Sciences Society*.

Hancock, S., Whitney, D., & Andrews, T.J. (2006). Crowding reduces orientation-specific adaptation prior to binocular rivalry. *Vision Sciences Society*.

Bressler, D. & Whitney, D. (2006). Negative BOLD carries meaningful information. *Society for Neuroscience*.

20. Whitney, D. (2005). Visual motion shifts perceived position without awareness of the motion. *Vision Sciences Society*, 5 (suppl), 62.

Bressler, D. & Whitney, D. (2005). Second order motion shifts apparent position. *Vision Sciences Society*, 4 (suppl), 181.

Bressler, D. & Whitney, D. (2005). Contrast defined motion produces the motion aftereffect without awareness. *Association for the Scientific Study of Consciousness*.

Goltz, H.C., Whitney, D., & Vilis, T. (2005). A differential origin-of-motion response in V1 for first-order but not second-order stimuli as revealed by fMRI. *Vision Sciences Society*, 4 (suppl), 184.

Whitney, D. & Bressler, D. (2005). First and second-order motion shifts perceived position with and without awareness of the motion. *Perception*, 34 (suppl), 96.

Whitney, D., Goltz, H., & Bressler, D. (2005). Spatially asymmetric response to moving patterns revealed by fMRI. *Society for Neuroscience*.

Whitney, D., Goltz, H. C., & Goodale, M. A. (2004). fMRI activity for the unseen: Masking in the primary visual cortex. *Vision Sciences Society, 4 (suppl)*, 39.

Goltz, H. C. & Whitney, D. (2004). The influence of background motion on smooth pursuit: Separation matters. *Vision Sciences Society, 4 (suppl)*, 168.

Whitney, D. (2004a). fMRI activity for the unseen: masking and motion in the visual cortex. Invited talk presented at the *Computational Neuroimaging Conference*. Stanford University, California.

Whitney, D., Goltz, H. C., Thomas, C. G., & Goodale, M. A. (2003a). Flexible retinotopy: Motion dependent position coding in the visual cortex. *Vision Sciences Society, 3 (suppl)*, 38.

10. Whitney, D., Goltz, H. C., Thomas, C. G., & Goodale, M. A. (2003b). The representation of a moving object in the visual cortex shows peak fMRI activation at its trailing edge. *Perception, 32 (suppl)*, 21.

Whitney, D., Westwood, D. A., & Goodale, M. A. (2002b). The influence of distant motion signals on fast reaching movements to a stationary object. *Vision Sciences Society, 2 (suppl)*, 249.

Whitney, D., Westwood, D. A., & Goodale, M. A. (2002c). The influence of motion on position: From action to perception. *Visual Localization in Space-Time*. University of Sussex, Brighton, England. Conference organized by Romi Nijhawan.

Whitney, D., Westwood, D. A., & Goodale, M. A. (2002d). Shifts in fast reaching movements due to motion recover after a delay. *Perception, 31 (suppl)*, 85.

Whitney, D. & Cavanagh, P. (2000c). Motion distorts visual space: Shifting the perceived positions of remote stationary objects. *Investigative Ophthalmology & Visual Science, 41 (suppl)*, S741.

Whitney, D. & Cavanagh, P. (2000d). Motion adaptation shifts the apparent positions of remote objects. *Perception, 29 (suppl)*, 75.

Whitney, D. (2000a). Motion integration and localization. *Representational Momentum*. Max Planck Institute, Tübingen, Germany. Conference organized by Ian Thornton.

Whitney, D., Murakami, I., & Cavanagh, P. (1999a). Moving stimuli have latency advantage over flashed stimuli: Evidence for a temporal facilitation mechanism. *Investigative Ophthalmology & Visual Science, 40 (suppl)*, 744.

Whitney, D., Murakami, I., & Cavanagh, P. (1999b). Persistence does not influence the perceived location of a flash relative to a moving stimulus. *Perception, 28 (suppl)*, 81.

1. Whitney, D., Murakami, I., & Cavanagh, P. (1998). Motion extrapolation cannot account for apparent position offset of a flashed disk relative to unpredictable motion. *Investigative Ophthalmology & Visual Science, 39 (suppl)*, 1075.

## INVITED PRESENTATIONS & COLLOQUIA

Whitney, D. (2016). The Continuity Field: a mechanism of perceptual stability via serial dependence. Invited talk presented at Peking University, November, 2016.

Whitney, D. (2016). The Continuity Field (CF): a mechanism of perceptual stability via serial dependence. Invited talk presented at the Florida Atlantic University, Florida, USA. March, 2016.

Whitney, D. (2015). The bottleneck of conscious vision. Invited talk presented at Rhodes University, November, 2015.

Whitney, D. (2015). The Continuity Field. Invited talk presented at the Institute of Electrical and Computing Sciences, Tohoku University, August, 2015

Whitney, D. (2015). Ensemble perception. Invited talk presented at the Department of Cognitive and Information Sciences, Merced, California, April, 2015.

Whitney, D. (2014). Balancing visual prediction and visual stability. Invited talk presented at LPP, University of Paris Descartes, October, 2014.

Whitney, D. (2014). Balancing visual prediction and visual stability. Invited talk presented at Department of Psychology, University of Bangor, October, 2014.

Whitney, D. (2014). Balancing visual prediction and visual stability. Invited talk presented at the Department of Psychology, University of Glasgow, September, 2014.

Whitney, D. (2014). Balancing visual prediction and visual stability. Invited talk presented at the Department of Psychology, University of Aberdeen, September, 2014.

Whitney, D. (2014). Balancing visual prediction and visual stability. Invited talk presented at Tohoku University, Department of Psychology, March, 2014.

Whitney, D. (2014). Perceiving groups. Invited talk presented at the University of California, Berkeley, Visual Computing Lab (Computer Science), March, 2014.

Whitney, D. (2013). Understanding perception to improve design. Invited talk presented at the Department of Architecture, Tsinghua University, Beijing, China, December, 2013.

Whitney, D. (2013). The bottleneck of conscious vision. Invited talk presented at the University of California, Berkeley, ICBS (Institute for Cognitive and Behavioral Sciences), March, 2013.

Whitney, D. (2013). The bottleneck of conscious vision. Invited talk presented at the University of Nevada, Reno, Department of Psychology, February, 2013.

Whitney, D. (2012). The bottleneck of conscious vision. Invited talk presented at the University of Minnesota, December, 2012.

Whitney, D. (2012). The bottleneck of conscious vision. Invited talk presented at the University of California, San Diego, November, 2012.

Whitney, D. (2012). The bottleneck of conscious vision. Invited talk presented at the University of Arkansas Medical School, October, 2012.

Whitney, D. (2012). Visual crowding and the human pulvinar. Invited talk presented at the Department of Psychology, Hendrix College, Conway, Arkansas, October, 2012.

Whitney, D. (2012). The bottleneck of conscious vision. Invited talk presented at the Department of Psychology, Peking University, Beijing, China, July, 2012.

Whitney, D. (2012). The bottleneck of conscious vision. Invited talk presented at the Department of Psychology, Tsinghua University, Beijing, China, July, 2012.

Whitney, D., Fischer, J.T. & Liberman, A (2012). Serial dependence of vision. *Asia Pacific Conference on Vision, Symposium on the aftereffects*, July, 2012, Incheon, Korea.

Whitney, D. & Fischer, J.T. (2012). Visual attention gates spatial coding in the human pulvinar. *Vision Sciences Society, Symposium on the pulvinar*, May.

Whitney, D. (2012). The resolution of conscious vision. Invited talk presented at the Cognitive Science Student Association Conference, UC Berkeley, May.

Whitney, D. (2011). Visual crowding: the spatial resolution of conscious vision. Invited talk presented at the University of Sydney, Sydney, Australia, November, 2011.

Whitney, D. (2011). Visual crowding: the spatial resolution of conscious vision. Invited talk presented to the University of Queensland, Brisbane, Australia (Keynote lecture for CPCN conference), November, 2011.

Whitney, D. (2011). Visual crowding: the spatial resolution of conscious vision. Invited talk presented to the Department of Psychology, Dartmouth College, October, 2011.

Whitney, D. (2010). The spatial resolution of conscious vision: crowding in infants and adults. Invited talk presented to the Association for the Scientific Study of Consciousness, Toronto, Ontario, Canada.

Whitney, D. (2010). Spatial vision in dynamic and cluttered scenes. Invited talk presented to the Dept of Psychology, Harvard University.

Whitney, D. (2009). Perceiving Crowds. Invited talk presented to the Bay Area Vision Research Day, UC Berkeley, CA.

Whitney, D. (2009). The Patrick Module. Invited talk presented at the Festschrift for Patrick Cavanagh, Harvard University, Cambridge, MA.

Whitney, D. (2009). The influence of visual motion on reaching movements to a stationary object. Invited talk presented to the Neural Control of Movement conference.

Whitney, D. (2008). Spatial vision in dynamic and cluttered scenes. Invited talk presented to the Center for Vision Sciences conference, UC Davis, California.

Whitney, D. (2008). Motion processing in Autism: clarifying the deficits and identifying new directions. Invited talk presented at the Simons Foundation meeting on Autism: How can cognitive science inform investigations of the cognitive phenotype in Autism? New York, New York.

Whitney, D. (2008). Coding and perceiving object position. Invited talk presented to the Cajal Club, the Cajal Club Annual Meeting, held in Davis, California.

Whitney, D. (2008). Coding and perceiving object position. Invited talk presented to the Department of Psychology, University College London, England.

Whitney, D. (2008). Neural mechanisms of perceiving object position. Invited talk presented to the Centre for Vision Research, York University, Canada.

Whitney, D. (2008). Coding and perceiving the positions of objects. Invited talk presented to the Department of Psychology, Boston University.

Whitney, D. (2008). Coding and perceiving the positions of objects. Invited talk presented to the Center for Neuroscience, University of California, Davis.

Whitney, D. (2008). Coding and perceiving the positions of objects. Invited talk presented to the Department of Psychology, University of California, Berkeley.

Whitney, D. (2007). Coding and perceiving the positions of moving objects. Invited talk presented to the Townshend Center Working Group in the Philosophy of Mind, Department of Philosophy and Psychology, University of California, Berkeley.

Whitney, D. (2007). Coding and perceiving the positions of moving objects. Invited talk presented to the Vision Science Group, University of California, Berkeley.

Whitney, D. (2006a). Visual motion and the precision of position coding in the visual cortex. Invited talk presented to the Department of Psychology, the University of Amsterdam, Holland.

Whitney, D. (2006b). The precision of position coding in the visual cortex. Invited talk presented to the Smith Kettlewell Institute, San Francisco, California.

Whitney, D. (2006c). Attention improves the spatial resolution of position coding in the visual cortex. Invited talk presented Attention and the Mind conference, University of California, Davis.

Whitney, D. (2005a). Visual motion for perception and action. Invited talk presented for the Cognition and Action group, Department of Psychology, UC Berkeley.

Whitney, D. (2005b). Perceived position and the awareness of motion. Invited talk presented at the psychology open house, Department of Psychology, UC Davis.



Whitney, D. (2005c). Vision and Art. Invited talk presented to the advanced placement art students at Woodland High School, Woodland, California.

Whitney, D. (2005d). Motion' s influence on reaching requires MT+: TMS evidence. Invited talk presented at the *Leverhulme Interchange Meeting*. Durham, England. Conference organized by David Milner.

Whitney, D. (2005e). Visuomotor and fMRI studies of visual motion' s influence on position. Invited talk presented to the Sensory and Motor Group, NTT communications, Atsugi, Kanagawa, Japan.

Whitney, D. (2005f). Perceiving and acting in a dynamic world. Invited talk presented to the Department of Psychology, University of Tokyo, Japan.

Whitney, D. (2005g). Cortical mechanisms of perception and action. Invited talk presented to the Cajal Club, the Cajal Club Annual Meeting, held in Davis, California.

Whitney, D. (2004b). The positions of objects: perceiving and acting in a dynamic world. College of Optometry, University of Houston.

Whitney, D. (2004c). FMRI activity for the unseen. Invited talk presented at the *Leverhulme Interchange Meeting*. London, Ontario. Conference organized by David Milner and Mel Goodale.

Whitney, D. (2004d). FMRI activity for the unseen: masking and motion in the visual cortex. Invited talk presented at the Perception, Cognition, and Cognitive Neuroscience colloquium, UC Davis.

Whitney, D. (2003a). Perceptual and motor localization in the presence of visual motion. Invited talk presented at the *Southern Ontario Neuroscience Association* annual meeting, London, Ontario.

Whitney, D. (2003b). Dissociating perception from the fMRI response in V1. Invited talk presented at the *Leverhulme Interchange Meeting*. INSERM, Lyon, France. Conference organized by Yves Rossetti.

Whitney, D. (2003c). The positions of objects: perceiving and acting in a dynamic world. Department of Psychology, University of California Davis.

Whitney, D. (2002b). The influence of motion on position: From action to perception. Invited talk presented at the Vision Sciences Laboratory, Harvard University, Cambridge, Massachusetts.

Whitney, D. (2002c). Dissociating the influence of motion on perception and action. Invited talk presented at the *Leverhulme Interchange Meeting*. Oxford University, Oxford, England. Conference organized by David Milner.

Whitney, D. (2001a). The influence of motion on perceived position. Invited talk presented at the University of Western Ontario, London, Ontario.

Whitney, D. (2001b). The influence of visual motion on perceived position: future directions for perception and action. Invited talk presented at the Canadian Institutes of Health Research Group for Action and Perception, London, Ontario.

Whitney, D. & McGary, R. (2000). Teaching Science in the Core. Invited talk presented at the Derek Bok Center for Teaching and Learning, Harvard University, Cambridge, Massachusetts.

Whitney, D. (2000b). Visual motion and perceived position. Invited talk presented at RIKEN Brain Institute, Tokyo, Japan.