

## SCOTT BAILLI STEVENSON

Associate Professor of Optometry and Vision Sciences

University of Houston College of Optometry  
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### EDUCATION

- 1981–1987 Brown University, Providence RI. (Ph.D. Experimental Psychology)  
1977–1981 Rice University, Houston TX. (BA. Psychology)

### PH.D. THESIS

- May 1987 The Perceptual Consequences of Eye Blinks

### ACADEMIC EMPLOYMENT

- 1995–present Faculty / University of Houston College of Optometry  
Retinal imaging: high magnification ophthalmoscopy with adaptive optics  
Visuo-motor latency: neural transmission delays in normal and diseased subjects  
Eye movements: visual control of eye alignment, smooth pursuit, saccades  
Binocular vision: binocular matching processes, stereoacuity  
Motion perception: minimum motion thresholds, contrast processing  
Contrast sensitivity: objective measurement techniques, modeling.
- 1993–1995 Assistant Researcher / University of California–Berkeley (Principal Investigator)  
Binocular vision: comparison of sensitivity to vertical and horizontal disparity
- 1991–1993 Associate Specialist / University of California–Berkeley (with C. M. Schor)  
Binocular vision: correlation processing in stereopsis and vergence
- 1987–1990 NEI NRSA Fellow / University of California–Berkeley (with C. M. Schor)  
Binocular vision: depth domain interactions, new types of stereoacuity
- 1986–1987 Research Associate / Brown University (with J. Simmons)  
Auditory localization: behavioral studies of bat echolocation acuity
- 1981–1986 Graduate Research / Brown University  
Visual suppression during saccades and eyeblinks (with L. A. Riggs)  
Masking effects in stereopsis (with S. Lehmkuhle)  
Perception of faces combined dichoptically. (with R. Millward)
- 1980–1981 Research Technician / University of Texas–Houston (with H. G. Sperling)  
Psychophysical measures of S-cone receptor mosaic in human  
Behavioral & electrophysiological measures of spectral sensitivity in goldfish

### FELLOWSHIPS AND AWARDS

- 1994–99, 2001-06 National Eye Institute R01 Award  
2004-09 National Science Foundation grant through Center for Adaptive Optics at UCSC

2009	Cora and J Davis Armistead Teaching Award
2009, 2010	UHCO Outstanding First Year Faculty
1997, 2006	UHCO Outstanding Graduate Faculty
1997	UHCO Outstanding Second Year Faculty
1987, 88, 89	National Eye Institute National Research Service Award
1986	Sigma Xi Graduate Research Award
1986	Elected to Associate Member, Sigma Xi
1985	ARVO Travel Fellowship
1984	Faculty Fellow Award, Brown University

### RESEARCH ADVISING

#### Post-doctoral Researchers

1995	Lori Lott, Ph.D. University of California–Davis	Supervisor
1995–1998	Jian Yang, Ph.D. Northeastern University	Supervisor

#### Ph. D. Thesis Commitees

2017	Madumitha Mahadevan, PhD Vision Sciences	Chair
2016	Arun Krishnan, PhD Vision Sciences	Member
2015	Tawna Roberts, PhD Vision Sciences	Member
2014	Viswa Subramaniam, PhD Vision Sciences	Member
2013	Ziyang Li, PhD Electrical and Computer Eng	Member
2012	Joshua Pratt OD, PhD Vision Sciences	Member
2011	Deepika Sridar PhD Vision Sciences	Member
2009	Girish Kumar, Ph.D. Physiological Optics	Chair
2009	Liat Gantz, Ph.D. Physiological Optics	Member
2006	Srividhya Hariharan, Ph.D. Physiological Optics	Member
2006	Jianghe Xiang, Ph.D Physiological Optics	Member
2006	Hua Bi, Ph.D Physiological Optics	Member
2006	Avesh Raghunandan, Ph.D Physiological Optics	Chair
2006	Patricia Cisarik, Ph.D Physiological Optics	Member
2005	Sanjeev Kasthurirangan, Ph.D Physiological Optics	Member
2004	Abhiram Vilupuru, Ph.D Physiological Optics	Member
2003	Bin Zhang Ph.D Physiological Optics	Member
1999	Alp Bayramoglu, Ph.D Engineering	Member
1998	Janice Wensveen, Ph.D Physiological Optics	Member
1995	Saumil Patel, Ph.D Engineering	Member

#### M.S. Thesis Commitees

2016	Dong “Donnie” Chen	Member
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2016	Stephanie Marten-Ellis, M.S. Vision Sciences	chair
2016	Brittany Degler, M.S. Vision Sciences	Member
2016	Katherine Johns, M.S. Vision Sciences	Member
2011	Archana Bora, M.S. Vision Sciences	Chair
2010	Travis Bendele M.S. Electrical & Computer Eng.	Member
2006	Frank E. Visco Jr M.S. Physiological Optics	Chair
2006	Preetha Sampat M.S. Physiological Optics	Member
2005	Ramprasad Kanagaraj M.S. Physiological Optics	Chair
2004	Shobana Gopinath M.S. Physiological Optics	Member
2001	Stanley Woo, M.S. Physiological Optics	Member
2001	Bill Donnelly, M.S. Physiological Optics	Member
2000	Shama Chaudhry, M.S. Physiological Optics	Chair
2000	Avesh Raghunandan, M.S. Physiological Optics	Chair
2000	Vanitha Sampath, M.S. Physiological Optics	Member

#### NIH Summer Research Fellows

2016	Lora Cretella	Advisor
2015	Stephanie Marten-Ellis	Co-advisor
2012	Shelby Gross	Advisor
2010-2011	Emily Horn	Advisor
2010-2011	Alyssa Baevich	Advisor
2008-2009	Rebecca Williams	Advisor
2006-2007	Jeremy Brueggemann	Advisor
2004-2005	Jeremy Frasier	Advisor
2000- 2003	Elyse M. Lemery	Advisor
2000	Frank E. Visco	Co-advisor
1998	Elaine M. Shih	Advisor
1996–1997	Paul E. Reed	Advisor

### TEACHING EXPERIENCE

#### Professional Optometry Courses (University of Houston)

Perception	Course Master
Introduction to Vision Science	Course Master
Basic and Clinical Aspects of Ocular Motility	Course Master
Primary Optometry Laboratory	Course Master
Optometry II	Contributing Lecturer
Ocular Pathology III: NeuroOptometry	Contributing Lecturer

#### Graduate Courses in Physiological Optics and Vision Science (University of Houston)

Statistics for Vision Science	Course Master
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Models in Vision Science	Course Master
Perception and Binocular Vision	Course Master
Computing Tools for Vision Science	Course Master
MATLAB Programming for Vision Science	Course Master
Basic Physiological Optics	Contributing Lecturer
Visual Neuroscience	Contributing Lecturer
Seminar in Scientific Investigation	Contributing Lecturer
Classics in Vision Science	Contributing Lecturer
General Seminar in Physiological Optics	CourseMaster

#### Undergraduate Courses in Experimental Psychology (Brown University)

Psychology 1 Laboratory	CourseMaster
Introductory Psychology	Contributing Lecturer
Sensory Psychology	Contributing Lecturer
Developmental Psychology	Contributing Lecturer

#### COMMITTEE SERVICE AT UNIVERSITY OF HOUSTON

##### Vision Sciences Department

2004- present (rotating service)	Merit Review and Faculty Development Committee
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##### Clinical Sciences Department

2009–2010	Patient Care Review Committee
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##### College of Optometry

2005-2009	Human Subjects Committee
1995–present	Periopsia Committee
1995–2002	College Computing Advisory Committee
1995–1999	Academic Committee
1998–2015	Learning Resources And Teaching Excellence And Innovation Committee
1997	Department Heads Evaluation Committee

##### Graduate Program in Physiological Optics

1995–present	Curriculum Committee
1995–present	Graduate Faculty Appointment Committee (Chair)
1997-present	VRSG Review Committee (frequent ad hoc grant proposal reviewer)
1997–present	Qualifying Examination Committee

##### University of Houston

2012-present	University of Houston IRB – (member, Committee 1)
2009- 2012	University of Houston IRB - (Chair, Committee 1)

1999–2004 Information Technology and Computing Committee  
1995–1998 Academic Computing Advisory Committee

### EDITORIAL BOARDS

*Vision Research* 2009 - Present

### EDITORIAL REVIEWS

<i>Vision Research</i>	<i>Nature</i>
<i>Experimental Brain Research</i>	<i>Perception</i>
<i>Journal of Vision</i>	<i>Optometry and Vision Science</i>
<i>Journal of the Optical Society of America</i>	<i>Visual Neuroscience</i>
<i>PLoS One</i>	<i>Ergonomics</i>

### INVITED TALKS

Dec 2015 Baylor College of Medicine, Houston TX  
Oct 2015 University of California-Berkeley SchorFest, Berkeley CA  
May 2015 University of Houston College of Optometry BedellFest, Houston TX  
May 2013 University of California-Berkeley Oxyopia Seminar series, Berkeley CA  
September 2009 University of California-Berkeley Adaptive Optics Seminar Series, Berkeley CA  
January 2007 Houston Society for Engineering in Medicine and Biology, Houston TX  
October 2006 OSA Vision Meeting, Rochester, NY  
January 2006 Wavefront Congress, Paradise Island, Bahamas  
February 1995 Stanford University Psychology Department, Mountain View, CA  
November 1994 University of California Santa Cruz Psychology Department, Santa Cruz, CA  
November 1994 University of Houston College of Optometry, Houston, TX  
July 1994 University of California–Berkeley School of Optometry, Berkeley, CA  
June 1994 Smith–Kettlewell Eye Research Institute, San Francisco, CA  
July 1993 SPIE: Computational Vision Based on Neurobiology Meeting, Asilomar, CA

### PUBLICATIONS OF SCOTT B. STEVENSON

Stevenson SB, Sheehy CK, Roorda A. (2016) Binocular eye tracking with the Tracking Scanning Laser Ophthalmoscope. *Vision Res.* 2016 Jan;118:98-104

Robert J. Zawadzki, Arlie G. Capps, Dae Yu Kim, Atanasios Panorgias, Scott B. Stevenson, Bernd Hamann and John S. Werner (2014). Progress on developing Adaptive Optics - Optical Coherence Tomography for in-vivo retinal imaging: monitoring and correction of eye motion artifacts. *IEEE Journal of Selected Topics in Quantum Electronics.* 20 (2) : DOI:10.1109/JSTQE.2013.2288302

Arathorn, D. W., Stevenson, S. B., Yang, Q., Tiruveedhula, P., & Roorda, A. (2013). How the unstable eye sees a stable and moving world. *Journal of Vision*, 13 (10):22, 1–19, <http://www.journalofvision.org/content/13/10/22>, doi:10.1167/13.10.22

Mulligan JB, Stevenson SB, Cormack LK (2013) Reflexive and voluntary control of smooth eye movements. *Proc. SPIE*. 8651, Human Vision and Electronic Imaging XVIII 86510Z (March 5, 2013) doi: 10.1117/12.2010333

Bedell, H. E., & Stevenson, S. B. (2013) Eye movement testing in clinical examination. *Vision Research* (2013), 90:32-7. <http://dx.doi.org/10.1016/j.visres.2013.02.001>

Qian J, Adeseye SA, Stevenson SB, Patel SS, Bedell HE. (2012) D(max) for Stereoscopic Depth Perception with Simulated Monovision Correction. *Seeing and Perceiving* 25(5); 399-408

Nilsson A, Nilsson M, Stevenson SB, Brautaset RL (2011). The influence of unilateral uncorrected astigmatism on binocular vision and fixation. *Strabismus* 19(4):138-41.

Stevenson S. B., Roorda A., Kumar G. (2010). Eye tracking with the adaptive optics scanning laser ophthalmoscope. In Spencer S. N. (Eds.), *Proceedings of the 2010 Symposium on Eye-Tracking Research & Applications* (pp. 195–198). New York, NY, USA: Association for Computed Machinery.

Cisarik PM, Kasthurirangan S, Visco FE, Bedell HE, Stevenson SB, Raghunandan A. (2010). The effect of a temporary absence of target velocity information on visual tracking. *Journal of Eye Movement Research*, 3(4):4,1-16.

He, L., Donnelly, W. J., III, Stevenson, S. B., & Glasser, A. (2010). Saccadic lens instability increases with accommodative stimulus in presbyopes. *Journal of Vision*, 10(4):14, 1–16, <http://journalofvision.org/10/4/14/>, doi:10.1167/10.4.14.

Rubenzon Steven J, Stevenson Scott B (2010) Horizontal Gaze Nystagmus: A Review of Vision Science and Application Issues. *Journal of Forensic Sciences* Mar 1;55(2):394-409

Nilsson M, Stevenson SB, Kumar G, Martin L, & Brautaset RL (2009). Fixation stability during Rarebit Fovea Test. *Clinical and Experimental Optometry* 92(1):9-13.

Raghunandan, A., Frasier, J., Poonja, S., Roorda, A., & Stevenson, S. B. (2008). Psychophysical measurements of referenced and unreferenced motion processing using high-resolution retinal imaging. *Journal of Vision*, 8(14):14, 1-11, <http://journalofvision.org/8/14/14/>, doi:10.1167/8.14.14.

Yafei Niu, Edwin J Sarver, Scott B Stevenson, Jason D Marsack, Katrina E Parker, & Raymond A Applegate (2008). Dynamic Simulation of Soft Toric CL Movement on Image Quality. *Optometry and Vision Science* 85(4):230-5.

Nilsson M., Stevenson S.B., Leach N., Bergmanson J.P. and Brautaset R.L. (2008). Vertical imbalance induced by a prism ballasted soft toric contact lenses fitted unilaterally. *Ophthalmic and Physiological Optics* 28(2):157-62.

Tong, J., Stevenson, S. B., Bedell H.E. (2008). Signals of eye-muscle proprioception modulate perceived motion smear. *Journal of Vision* (2008) 8(14):7, 1–6 <http://journalofvision.org/8/14/7/>

Zhang, B., Stevenson, S. B., Cheng, H., Laron, M., Kumar, G., Tong, J., & Chino, Y. M. (2008). Effects of fixation instability on multifocal VEP (mfVEP) responses in amblyopes. *Journal of Vision*, 8(3):16, 1-14, <http://journalofvision.org/8/3/16/>, doi:10.1167/8.3.16.

Raghuandan A. & Stevenson SB. (2007) Binocular contrast interactions in two-frame motion discrimination. *Perception and psychophysics* 69 (6), 1002-1008.

Stevenson SB, & Roorda A., (2005) "Correcting for miniature eye movements in high resolution scanning laser ophthalmoscopy" in *Ophthalmic Technologies XV*, edited by Fabrice Manns, Per Söderberg, Arthur Ho, Proceedings of SPIE Vol. 5688A (SPIE, Bellingham, WA, 2005).

Patel S. S., Ukwade M. T., Stevenson S. B., Bedell H. E., Sampath V., Ogmen H., (2003). Stereoscopic depth perception from oblique phase disparities. *Vision Research* 43 2479-92

Stevenson S.B. (2002). Visual Processing in Disparity Vergence Control. *Annals of the New York Academy of Sciences* 956, 492-494.

Raghuandan A., Stevenson SB. (2001). A review of the development of concepts in stereoscopic mechanisms *The South African Optometrist* 60, 30-35.

Stevenson SB, Cormack LK. (2000) A contrast paradox in stereopsis, motion and vernier acuity. *Vision Research* 40, 2881-2884.

Yang J, Stevenson SB. (1999). Post-retinal processing of background luminance. *Vision Research* 39, 4045–4051.

Stevenson SB, Reed PE, Yang J. (1999). The effect of target size and eccentricity on reflex disparity vergence. *Vision Research* 39, 823–832.

Liu L, Stevenson SB, Schor CM. (1998). Vergence eye movements elicited by stimuli without corresponding features. *Perception* 27, 7–20.

Yang J, Stevenson SB. (1998). The effect of background components on spatial-frequency masking. *JOSA-A* 15, 1027–1035.

Cormack LK, Stevenson SB, Landers DD. (1997). Interactions of spatial frequency and unequal monocular contrasts in stereopsis. *Perception* 26, 1121–1136.

Stevenson SB, Lott LA, Yang J. (1997). The influence of subject instruction on horizontal and vertical vergence tracking. *Vision Research* 37, 2891–2898.

Stevenson SB, Schor CM. (1997). Human stereo matching is not restricted to Epipolar lines. *Vision Research* 37, 2717–2723.

Yang J, Stevenson SB. (1997). Effects of spatial frequency, duration, and contrast on discriminating motion directions. *JOSA-A* 14, 2041–2048.

Liu L, Stevenson SB, Schor CM. (1997). Binocular matching of dissimilar features in phantom stereopsis. *Vision Research* 37, 633–644.

Liu L, Stevenson SB, Schor CM. (1995). Matching needed for stereopsis–reply. *Nature* 373, 203–203.

Cormack LK, Stevenson SB, Schor CM. (1994). An upper limit to the binocular combination of stimuli. *Vision Research* **34**, pp. 2599–2608.

Schor CM, Maxwell JS, Stevenson SB. (1994). Isovergence surfaces: the conjugacy of vertical eye movements in tertiary positions of gaze. *Ophthalmic and Physiological Optics* **14**, 279–286.

Liu L, Stevenson SB, Schor CM. (1994). A polar coordinate system for describing binocular disparity. *Vision Research* **34**, 1205–1222.

Stevenson SB, Cormack LK, Schor CM. (1994). The effect of stimulus contrast and interocular correlation on disparity vergence. *Vision Research* **34**, 383–396.

Liu L, Stevenson SB, Schor CM. (1994). Quantitative stereoscopic depth without binocular correspondence. *Nature* **367**, 66–69.

Stevenson SB, Cormack LK, Schor CM. (1994). Disparity tuning of cyclopean visual mechanisms. *Computational Vision Based on Neurobiology*, Teri B. Lawton, Editor, Proc SPIE **2045**, 79–88.

Cormack LK, Stevenson SB, Schor CM. (1993). Disparity-tuned channels of the human visual system. *Visual Neuroscience* **10**, 585–596.

Stevenson SB, Cormack LK, Schor CM, Tyler CW. (1992). Disparity tuning in mechanisms of human stereopsis. *Vision Research* **32**, 1685–1694.

Schor CM, Alexander J, Cormack LK, Stevenson SB (1992). A negative feedback control model of proximal convergence and accommodation. *Ophthalmic and Physiological Optics* **12**, 307–318.

Cormack LK, Stevenson SB, Schor CM.. (1991). Interocular correlation, luminance contrast, and cyclopean processing. *Vision Research* **31**, 2195–2207.

Stevenson SB, Cormack LK, Schor CM. (1991). Depth attraction and repulsion in random dot stereograms. *Vision Research* **31**, 805–813.

Simmons JA, Ferragamo M, Moss CF, Stevenson SB, Altes RA. (1990). Discrimination of jittered sonar echoes by the echolocating bat, *Eptesicus Fuscus* : the shape of target images in echolocation. *J. Comp. Physiol. A* **167**, 589–616.

Stevenson SB, Cormack LK, Schor CM. (1989). Hyperacuity, superresolution and gap resolution in human stereopsis. *Vision Research* **29**, 1597–1605.

Simmons JA, Freedman EG, Stevenson SB, Chen L, Wohlgenant TJ. (1989). Clutter interference and the integration time of echoes in the echolocating bat, *Eptesicus Fuscus* . *Journal of the Acoustical Society* **86**, 1318–1332.

Stevenson SB, Volkman FC, Kelly JP, Riggs LA. (1986). Dependence of visual suppression on the amplitudes of saccades and blinks. *Vision Research* **26**, 1815–1824.

### PRESENTATIONS AT SCIENTIFIC MEETINGS

Stevenson SB, Mahadevan MS, Mulligan JB (2016) Attentional modulation of eye torsion responses. Vision Sciences Society Annual Meeting, St. Pete Beach FL 2016.



Mahadevan MS, Bedell HE, Stevenson SB (2016) Asymmetry in saccadic latency during smooth pursuit: A signature of visual spatial attention? Vision Sciences Society Annual Meeting, St. Pete Beach FL 2016.

Marten-Ellis S, Bedell HE, Stevenson SB (2016) Foveal and peripheral crowding and contour interaction are not affected by flanker-target color congruency. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Seattle WA 2016.

Roberts TL, Benoit JS, Manny RE, Stevenson SB, Anderson HA (2016). Accommodative accuracy and stability in passive and active viewing tasks in children with uncorrected hyperopia. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Seattle WA 2016.

Mahadevan M, Bedell H, Stevenson S. (2015). The influence of attention on contrast perception, contrast discrimination, and saccadic reaction time. Vision Sciences Society Annual Meeting, St. Pete Beach FL 2015.

Mulligan JB, Stevenson SB. (2014) Smooth pursuit of flicker-defined motion. Vision Sciences Society Annual Meeting, St. Pete Beach FL 2014.

Mahadevan M, Bedell HE, Stevenson SB (2014). The relationship between contrast detection and saccadic reaction times with attention. Vision Sciences Society Annual Meeting, St. Pete Beach FL 2014.

Krishnan AK, Patel NB, Stevenson SB, Bedell HE (2014). Registration accuracy of NIDEK MP-1 micro-perimeter in 'follow-up' testing. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Orlando FL 2014.

Stevenson SB, Sheehy C, Roorda A. (2013). Binocular Scanning Laser Ophthalmoscope design for eye tracking. OSA vision meeting, Houston TX 2013. *J Vis* 2013 13(15): P29; doi:10.1167/13.15.64

Gross S, Horn EE, Ford AB, Stevenson SB (2013). Fixation precision in reading estimated with an added noise paradigm. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Seattle WA 2013.

Horn EE, Baevich A, Stevenson SB (2012). Fixation Precision in Reading Estimated with an Added Noise Paradigm. American Academy of Optometry Annual Meeting, Phoenix AZ 2012.

Baevich A, Horn EE, Stevenson SB (2012). Contributions of Rebound Nystagmus (RN) to the "Horizontal Gaze Nystagmus (HGN)" Test. American Academy of Optometry Annual Meeting, Phoenix AZ 2012.

Stevenson SB, Bora A, Nilsson M, Brautaset R (2012) Cyclovergence is controlled by both interocular correlation and interocular velocity difference mechanisms. Vision Sciences Society Annual Meeting, Naples FL 2012

Bora A, Stevenson SB (2012) Catch-up saccades do not influence pursuit direction for mixed first order/ high order plaids. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Ft. Lauderdale FL 2012

Mulligan J B, Stevenson SB (2011) An eye movement-defined hierarchy of visual stimuli. OSA Vision Meeting, Seattle WA. *J Vis* December 27, 2011 11(15): 52; doi:10.1167/11.15.52

Nicole M. Putnam, Pavan Tiruveedhula, David W. Arathorn, Scott B. Stevenson, Austin Roorda (2011) Measurement of Motion Detection Thresholds under Natural and Manipulated Retinal Image Motion Conditions. OSA Vision Meeting, Seattle WA J Vis December 27, 2011 11(15): 11; doi:10.1167/11.15.11

Danica J. Marrelli, Michael Twa, Scott B. Stevenson, Alyssa Baevich, Emily Horn, Twelvis Matthews, (2011) Training Effect on Novice Examiners During Optic Nerve and Retinal Nerve Fiber Layer Examination: An Eye Tracking Study. Annual Meeting of the American Academy of Optometry, Boston MA

Michael D. Twa, Danica J. Marrelli, Scott B. Stevenson, Emily Horn, Alyssa Baevich, Twelvis Matthews, (2011) Gaze-Behavior of Experienced Examiners during Evaluation of the Optic Nerve Head. Annual Meeting of the American Academy of Optometry, Boston MA

Huy Nguyen, Greg Whittaker, Scott Stevenson, Bhavin Sheth (2010). Does sleep influence how we see the world around us? Vision Sciences Society Annual Meeting, Naples FL 2010

Stevenson SB, Arathorn DW, Yang, Q., Tiruveedhula, P. Putnam NM, Roorda A. (2010) Suppression of retinal image motion due to fixation jitter is directionally biased. Vision Sciences Society Annual Meeting, Naples FL 2010

N.M. Putnam, K.Y. Li, G. Kumar, S.B. Stevenson, F. Marchis, D. Merino, and A. Roorda (2010) Improvements in High Resolution Imaging with Adaptive Optics Scanning Laser Ophthalmoscopy Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Ft. Lauderdale FL 2010

Joshua Pratt, Harold E. Bedell, Scott B. Stevenson. (2010) Reading Eye Movements With Simulated Central Scotomas Depend on Scotoma Type Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Ft. Lauderdale FL 2010.

Joshua Pratt, Harold Bedell, Scott B Stevenson (2009) Reading Speed with Simulated Central Scotomas Depends on Scotoma Visibility. American Academy of Optometry Annual Meeting, Orlando FL.

Greg Whittaker, Huy Nguyen, Scott Stevenson, Bhavin Sheth (2009). Retaining the McCollough effect: Is sleep = lack of visual exposure? Vision Sciences Society Annual Meeting, Naples FL

Jeffrey B. Mulligan, Scott B. Stevenson (2009). A comparison of the dynamics of visually-controlled head and hand movements. Vision Sciences Society Annual Meeting, Naples FL

L. He, S.B. Stevenson, A. Glasser, W.J. Donnelly, III (2009). Saccadic Lens Instability Increases With Accommodative Stimulus in Presbyopes. ARVO 2009.

R.M. Williams, S.B. Stevenson, J.M. Wensveen, S.J. Rubenzer (2009). Normative Data on Maximum Angle of Abduction and Nystagmus Onset Angle. ARVO 2009.

Girish Kumar, Scott B. Stevenson, Austin Roorda (2008). Localized distortions within saccadic mapping contribute to the variance in saccadic landing points. OSA Vision Meeting, Rochester NY.

Jeffrey B. Mulligan, Scott B. Stevenson (2008) A frequency sweep method for rapid estimation of visual delays. Vision Sciences Society Annual Meeting, Naples FL

B.Zhang, H.Cheng, M.Laron, N.Polnick, G.Kumar, S.Stevenson, Y.M. Chino (2007). Effects of Fixation Stability on Multi Focal VEP (mfVEP) Responses in Strabismic and Anisometric Amblyopes. ARVO 2007

J.Tong, H.E. Bedell, S.B. Stevenson (2007). Modulation of Perceived Motion Smear During Passive Eye Movements. ARVO 2007

Jeffrey B. Mulligan, Scott B. Stevenson (2007). Spontaneous oculomotor oscillations induced by delayed visual feedback. Vision Sciences Society Annual Meeting 2007

Girish Kumar, Scott Stevenson (2007). Peri-Saccadic Temporal Uncertainty Vision Sciences Society Annual Meeting 2007

Scott Stevenson, Girish Kumar, Austin Roorda (2007). Psychophysical and oculomotor reference points for visual direction measured with the Adaptive Optics Scanning Laser Ophthalmoscope. Vision Sciences Society Annual Meeting 2007 <http://journalofvision.org/7/9/137/>

Scott B. Stevenson (2007). Visual stimulation and eye movement recording with high resolution retinal imaging. Houston Society for Engineering in Medicine and Biology, Houston TX 2007

Jeremy Brueggemann, Scott B. Stevenson (2006). Diagnostic potential of eye movement latency for demyelinating disease. American Academy of Optometry Annual Meeting, Dallas TX, 2006.

Scott B. Stevenson (2006). Eye movement recording and retinal image stabilization with high magnification retinal imaging. OSA Vision Meeting, Rochester, NY 2006.

Girish Kumar, Scott B. Stevenson, Austin Roorda (2006). Saccadic Targeting Variability revealed by High Magnification Retinal Imaging. Vision Sciences Society 2006.

Avesh Raghunandan, Scott B Stevenson (2006). Eye movement correlograms reveal first-order interocular motion processes. Vision Sciences Society 2006.

Frank E. Visco, Scott B. Stevenson (2006). The effect of edge polarity on the Pulfrich stereophenomenon Vision Sciences Society 2006.

A.Roorda, E.A. Rossi, Y.Zhang, S.B. Stevenson, D.W. Arathorn, C.R. Vogel, A.Parker, Q.Yang. (2006). Applications For Eye-Motion-Corrected Adaptive Optics Scanning Laser Ophthalmoscope Videos. ARVO 2006.

Scott B. Stevenson (2006) Eye Movements and Adaptive Optics Retinal Imaging. Seventh International Congress on Wavefront Sensing and Optimized Refractive Correction, Paradise Island, Bahamas, 2006

Frank E. Visco, Scott B. Stevenson (2005). Time course of local adaptation in the Pulfrich phenomenon. Vision Sciences Society 2005.

Jeffrey B. Mulligan, Scott B. Stevenson, Lawrence K. Cormack (2005). The effect of plaid orientation on pursuit of partially-predictable motion. Vision Sciences Society 2005.

Avesh Raghunandan, Jeremie Frazier, Siddharth Poonja, Austin Roorda, Scott B. Stevenson (2005). The effect of retinal jitter on referenced and un-referenced motion discrimination thresholds. Vision Sciences Society 2005.

Ramprasad Kanagaraj, Scott B. Stevenson (2005). The role of luminance polarity in vergence control. Vision Sciences Society 2005.

Scott B. Stevenson, Austin Roorda (2005). Miniature eye movements measured simultaneously with ophthalmic imaging and a dual-Purkinje image eye tracker. Vision Sciences Society 2005.

Stevenson SB & Roorda A (2005). Correcting for miniature eye movements in high resolution scanning laser ophthalmoscopy. SPIE BIOS 2005, San Jose CA.

Scott B. Stevenson, Avesh Raghunandan, Jeremie Frazier, Siddharth Poonja, Austin Roorda (2004) Fixation jitter, motion discrimination and retinal imaging Fall Vision Meeting 2004 Rochester NY

Mulligan JB, Stevenson SB & Cormack LK. (2004) Polarization analysis of the eye movement Correlogram. Vision Sciences Society 2004.

Cisarik PM, Kasthurirangan S, Visco FE, Bedell HE, & Stevenson SB. (2004) The effect of a temporary absence of target velocity information on visual tracking. Vision Sciences Society 2004

Stevenson SB. Gopinath SS. & Visco FE (2004) Target selection in torsional pursuit eye movements. Vision Sciences Society 2004

Raghunandan, A., Stevenson SB. (2004) Binocular fusion and interocular motion direction discrimination. Vision Sciences Society 2004

Avesh Raghunandan, Frank E Visco, Scott B Stevenson (2003). Contrast interactions in two-frame motion discrimination imply a binocular site of contrast gain control for motion. Vision Sciences Society 2003.

Mulligan JB, Stevenson SB. (2003) The contrast dependence of eye-movement latencies. Vision Sciences Society 2003

Stevenson SB; Mulligan JB,; Cormack, LK. (2003) Attention adds a long latency component in eye movement Correlograms. Vision Sciences Society 2003

Stevenson, S. B. Disparity Vergence Responses to Luminance and Contrast-defined patterns. (2003) Fall Vision Meeting, San Francisco CA 2002.

Visco, F. & Stevenson, S. B. Lateral interactions modify the Pulfrich effect. Annual Meeting of the Vision Sciences Society (VSS) 2002.

Cormack L.K. & Stevenson S. B. Illusory reverse-motion from contrast modulation. VSS 2002.

Lemery, E. M., Stevenson, S. B. & Miller W. L. Unequal binocular contrast and eye alignment. Annual Meeting of the American Academy of Optometry (AAO), 2001.

S.B. Stevenson. Visual Processing in Disparity Vergence Control. "Neurobiology of Eye Movements" Meeting sponsored by the New York Academy of Sciences, Cleveland OH 2001.

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