

SCOTT BAILLI STEVENSON

Associate Professor of Optometry and Vision Sciences

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EDUCATION

1987-1990 University of California, Berkeley CA (NEI post-doctoral fellow)
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

2001-present Associate Professor / University of Houston College of Optometry
1995-2001 Assistant Professor / University of Houston College of Optometry
1993-1995 Assistant Researcher / University of California-Berkeley (Principal Investigator)
1991-1993 Associate Specialist / University of California-Berkeley (with C. M. Schor)
1987-1990 NEI NRSA Fellow / University of California-Berkeley (with C. M. Schor)
1986-1987 Research Associate / Brown University (with J. Simmons)
1981-1986 Teaching Assistant / Brown University
1980-1981 Research Technician / University of Texas-Houston (with H. G. Sperling)

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 Committees

2018	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 Committees

2018	Saikiran Ambati	Member
2016	Dong “Donnie” Chen	Member
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	Ramprasat 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

2018	Vincent Pham	Co-advisor
2017	Jamie Tran	Advisor
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
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 Merit Review and Faculty Development Committee (rotating service)

Clinical Sciences Department

2009–2010 Patient Care Review Committee

College of Optometry

2005-2009	Human Subjects Committee
2002-present	Promotion and Tenure Committee (rotating service)
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 - 2017

EDITORIAL REVIEWS

Vision Research

Experimental Brain Research

Journal of Vision

Journal of the Optical Society of America

PLoS One

Psychological Science

Nature

Perception

Optometry and Vision Science

Visual Neuroscience

Ergonomics

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

Krishnan AK, Queener HM, Stevenson SB, Benoit JS, Bedell HE. (2018). Impact of simulated micro-scotomas on reading performance in central and peripheral retina. *Exp Eye Res.* 2018 Jun 28. pii: S0014-4835(18)30182-9. doi: 10.1016/j.exer.2018.06.027. [Epub ahead of print]

Roberts TL, Stevenson SB, Benoit JS, Manny RE, and Anderson HA. (2018) Blur Detection, Depth of Field, and Accommodation in Emmetropic and Hyperopic Children. *Optom Vis Sci* 95(3):212-222. doi:10.1097/OPX.0000000000001177

Mahadevan MS, Bedell HE, Stevenson SB. The influence of endogenous attention on contrast perception, contrast discrimination, and saccadic reaction time. *Vision Res.* 143, 89-102.

Pratt J, Stevenson SB, Bedell HB (2017). Scotoma Visibility and Reading Rate with Bilateral Central Scotomas. *Optometry and Vision Science* 94(3):279-289.

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.

Raghunandan 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.

Raghunandan 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

Retnasothie D, Stevenson SB. (2018). Random dot shapes for near convergence testing and training. American Academy of Optometry Annual Meeting, San Antonio Tx 2018.

Downey CO, Pace GC, Cormack LK, Stevenson SB, Candy TR (2018). Development of Pursuit of a Random Walk by Infants aged 4 to 17 Week. Vision Sciences Society Annual Meeting, St. Pete Beach FL 2018.

Sheehy CK, Shi B, Bensinger E, Romeo A, Rani L, Devereux M, Gelfand J, Stevenson SB, Green A (2018). Validation of microsaccades as a biomarker for disability in multiple sclerosis. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Honolulu HI 2018

Rani L, Sheehy CK, Shi B, Bensinger E, Devereux M, Stevenson SB, Green A (2018). Characterizing microsaccade behavior in a healthy control population using a tracking scanning laser ophthalmoscope (TSLO). Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Honolulu HI 2018

Sheehy CK, Bensinger E, Devereux M, Baker N, Boehm A, Stevenson SB, Green A (2017). Microsaccades as recorded by the tracking scanning laser ophthalmoscope are associated with disability in MS. Annual Meeting of The Association for Researchers in Vision and Ophthalmology (ARVO), Baltimore MD 2017.

Roberts TL, Benoit JS, Manny RE, Stevenson SB, Anderson HA (2017). 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), Baltimore MD 2017.

Mahadevan MS, Stevenson SB (2017). Effect of attention on cyclovergence and cycloverision eye movements. Vision Sciences Society Annual Meeting, St. Pete Beach FL 2017.

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.

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Cormack L.K. & Stevenson S.B. The contrast paradox in vernier acuity. *Vision Research* (in revision).

Raghunandan, A & Stevenson SB (in revision). Contrast interactions in monocular and interocular motion discrimination. *Journal of Vision* submitted.

ARTICLES IN PREPARATION

Gopinath SS, Stevenson SB, & Visco FE Target selection in torsional pursuit eye movements – in preparation

Stevenson SB, Brueggemann JK, Tang R, Cheng H & Shiffman J Oculomotor tracking latency profiles in normals and Multiple Sclerosis patients. In preparation

Shama Chaudhry and Scott B. Stevenson. Correlation sensitivity for horizontal disparity, vertical disparity and glass patterns. In preparation.

Stevenson SB, Lemery EL & Shih EM. Spatial contrast sensitivity of vertical disparity vergence. In preparation.

Visco, F. & Stevenson, S. B. Lateral interactions modify the Pulfrich effect. (in preparation)

Scott B. Stevenson, Jian Yang and Harold E. Bedell. Comparison of velocity discrimination with retinal and extraretinal motion signals. (in preparation)

Adaptive Optics SLO Retina Tracking results suggest a new view of fixation eye movements. Stevenson, Kumar & Roorda (in preparation)

Adaptive Optics SLO Retina Tracking shows separate reference points for fixation, pursuit, saccades, and the visual axis. Kumar, Roorda, & Stevenson (in preparation)

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