

Robert T. Chang, M.D.
2452 Watson Ct, Palo Alto, CA 94303
(650) 724-3734, rchang3@stanford.edu

<http://med.stanford.edu/profiles/Robert-Chang/>

10/1/15

PROFESSIONAL APPOINTMENT

- 11/1/10 - present* **Assistant Professor of Ophthalmology (MCL)** Stanford, CA
Reappointed 10/14 **Member, Bio-X**
Byers Eye Institute at Stanford
Stanford University School of Medicine
- 7/13/09 - 10/31/10* **Acting Assistant Professor of Ophthalmology** Stanford, CA
Byers Eye Institute at Stanford
Stanford University School of Medicine
- 2008 - present* **Board Certified, American Academy of Ophthalmology**
CA Medical License A108857, FL Medical License ME99224

EDUCATIONAL BACKGROUND

- 2007 - 2009* **Glaucoma Fellowship (2 years, research and clinical)** Miami, FL
Bascom Palmer Eye Institute
Ann Bates Leach Eye Hospital
- 2004 - 2007* **Ophthalmology Residency** St. Louis, MO
Washington University in St. Louis
Barnes Jewish Hospital
- 2003 - 2004* **Transitional Internship** Evanston, IL
McGaw Medical Center Northwestern
Evanston Northwestern Hospital (now Northshore Univ.)
- 2003* **Post Doctoral Research Fellow (4 months)** Miami, FL
Bascom Palmer Eye Institute
- 1996 - 2002* **Doctor of Medicine** Kansas City, MO
University of Missouri, Kansas City School of Medicine
Truman Medical Center
- 2001* **Clinical Researcher (5 months)** Stanford, CA
Stanford University Dept. of Ophthalmology
- 1996 - 2002* **Bachelor of Arts in Biology, with distinction** Kansas City, MO
University of Missouri, Kansas City (combined BA/MD program)

HONORS

- 2015* **Winner of 2015 Philips Healthsuite Hackathon First Place,**
<http://www.usa.philips.com/healthcare-about/events-calendar/hackathon>
- 2013* **Best Pivot Stanford StartxMed Innovation Challenge,** <http://startxmed.com>

2012 - present	Stanford MedScholars Advisor
2012 - present	Best Doctors in America
2008	American Glaucoma Society Advocacy Day Fellow Representative
2007	Heed Ophthalmic Fellowship
2002	Alpha Omega Alpha

GRANTS

- 1) Glaucoma HFA / OCT Specificity Study, grant sponsored by Carl Zeiss Meditec, in contract office 2015
- 2) Stanford Center Peking University Graduate Seminar Program Award – Digital Biodesign Bootcamp in China, June-July 2015.
- 3) Co-Investigator The Efficacy and Safety of Bimatoprost SR in Patients With Open-angle Glaucoma or Ocular Hypertension, Allergan Grant 2015-2019.
- 4) TCL Research America Grant, PI – Potential Benefits of Circular 2D Polarized LCD TV on Improvement of Eye Fatigue and Eye Movement Control in conjunction with Joyce Liao, MD, PhD, Stanford, Aug 2014.
- 5) Stanford Center Peking University Faculty Fellowship Program Award – EyeGo Smartphone Ocular Imaging Feasibility Study in China, May-June 2014
- 6) Stanford Spectrum Medtech Innovation Grant, PI – EyeGo: Remote Consultation Through Smartphone-Based Ophthalmic Imaging, 2014
- 7) Stanford Society of Physician Scholars (SSPS) Grant, PI – 3D printed smartphone-based ophthalmic imaging system for remote consultation and triage, 2014
- 8) Principal Investigator 769 phase 3 study, Bausch+Lomb Grant 2013-2014, closed
- 9) Peristat Online Visual Field Screening for Glaucoma – completed June 2012, Bio-X Undergraduate Summer Research Program Grant, presented at ARVO 2013
- 10) Employing Gaze-Tracking Analysis to Determine How Subjects Gather Visual Information During Field Testing – completed May 2011, supported by America Glaucoma Society MAPS grant 2011, presented at European Glaucoma Society in June 2012
- 11) Cirrus SD OCT – Ganglion Cell Normative Database Collection, grant sponsored by Carl Zeiss Meditec, Jan-April 2011

UNIVERSITY ADMINISTRATIVE SERVICE

- 1) Non-Voting Faculty Member Committee on School of Medicine Curriculum and Academic Policy (CCAP) – 2015
- 2) Appointed Senior Faculty Fellow at the Center for Innovation in Global Health – 2015 to present
- 3) Member Stanford Center for Population Health Sciences – 2015 to present
- 4) Stanford Mobile Health Interest Group – 2015 to present
- 5) Stanford MD Admissions Committee: 2016 Application Reviewer, Multi-Mini Interview, and Admit Weekend – 2015
- 6) Stanford Residency Lecture Series Organizer for Glaucoma – 2009 to present
- 7) Stanford Department of Ophthalmology Faculty Call Schedule Organizer – 2009 to present
- 8) Co-Director, AUPO-Certified Stanford Glaucoma Fellowship Program – 2010 to present
- 9) Value Stream Mapping, Performance Excellence, and LEAN Transformation Participant – 2012

- 10) Stanford Ophthalmology ACGME Graduate Medical Education Clinical Competency Ophthalmology Milestone Project Review Committee – 2013 to present
- 11) Stanford Department of Ophthalmology Website Advisor – 2014

INVITED LECTURES

- 1) “Future Role of ICT Advances in Eye Care Including Impact of M-Health: 3D Printing and Hackathons, Potential for Ophthalmology?” World Ophthalmology Congress (WOC) Session Chair, Guadalajara, Mexico – 2/5/16
- 2) “Event and Trend Analysis on OCT/VF and Glaucoma Therapy Selection” Glaucoma 360, Glaucoma Research Foundation, San Francisco – 1/30/16
- 3) Lab 140 “iPhone and iPad for Ophthalmologists” Course Instructor, American Academy of Ophthalmology, Las Vegas – 11/16/15
- 4) “Similarities and Differences Between Chinese and American Policies in Medical Innovation” Digital Healthcare Speaker, Caixin Annual Summit, Beijing – 11/7/15
- 5) “Machine Learning in Ophthalmology” Shaozhen Li Invited Lecture and Parallel Symposium “Istent” International Symposium of Ophthalmology (ISO), Shantou, China – 10/31/15
- 6) Lifeline Express Foundation, Glaucoma International Conference Lectures, Hubei, China – 10/17/15
- 7) “Enabling Technologies” BioE 273 Stanford Biodesign for Mobile Health Panel – 10/7/15
- 8) “Digital Health Innovation: A Personal Journey in Silicon Valley” Stanford Center at Peking University Innovation VISA Teleconference Lecture, Beijing – 7/24/15
- 9) “Genetics of Glaucoma,” Stanford Basic Science Review Course, Palo Alto – 7/22/15
- 10) “When and What Treatment to Start in Glaucoma Suspect” World Glaucoma Congress (WGC), Hong Kong – 6/7/15
- 11) “Smartphone and Tablet Computers for Ophthalmic Information for Private Study or by the Bedside: Ophthalmic Imaging Anterior and Posterior Segment” Asia Pacific Academy of Ophthalmology (APAO), Guangzhou, China – 4/3/15
- 12) “New Developments in OCT Imaging for Glaucoma: Update on the Macula” American Glaucoma Society (AGS) Breakfast Roundtable Co-Moderator, San Diego – 3/1/15
- 13) “The EyeGo and Mobile Health Innovation” PH 196 Global ophthalmic public health and Epidemiology of eye disease, Guest Lecturer, UC Berkeley – 2/12/15
- 14) “Glaucoma Genetics: Facts vs. Fiction” Glaucoma 360, Glaucoma Research Foundation, San Francisco – 2/7/15
- 15) “Smartphone-Based Tele-Ophthalmology Screening For Diabetic Eye Disease” Bay Area Vision Research Day (BAVRD) Guest Lecturer, UC Berkeley – 2/6/15
- 16) “New Clinical Dimensions in Glaucoma Diagnostics” Hawaiian Eye Zeiss Academy, Maui – 1/20/15
- 17) “Vision and Aging: Glaucoma, Macular Degeneration, and Cataracts” Stanford Physician Assistant (PA) Program – 1/12/15
- 18) “OCT and Visual Field Progression Analysis” Stanford Glaucoma Resident Lecture – 11/13/14
- 19) Lifeline Express Foundation, Glaucoma International Conference Lectures, Lanzhou, China –

- 11/1/14
- 20) “Updates on Portable Ophthalmic Imaging” Senior Instructor, Asia-Pacific Glaucoma Congress (APGC), Hong Kong – 9/27/14
 - 21) “How to Use SDOCT Effectively for Glaucoma” Zeiss Academy, Oakland – 8/20/14
 - 22) “Genetics of Glaucoma” Stanford Basic Science Review Course, Palo Alto – 7/23/14
 - 23) “Innovation in Mobile Healthcare: Using Smartphones as Medical Devices” Public Lecture at Stanford Center at Peking University, Beijing, China – 6/12/14
 - 24) “Mobile Health in Ophthalmology: a View From Silicon Valley” Chinese Ophthalmology Society, Tai Yuan, China – 5/31/14.
 - 25) “Endocyclophotocoagulation” World Ophthalmology Congress (WOC), Tokyo, Japan – 4/5/14
 - 26) “Istent” Stanford Glaucoma Resident Lecture – 3/27/14
 - 27) “Smartphones and Gadgets: How to Practice Neuro-Ophthalmology Anywhere in the 21st Century” North American Neuro-Ophthalmology Society (NANOS) Symposium, San Juan, Puerto Rico – 3/5/14
 - 28) “APAMSA Presents: Medicine in Asia: Practice, Policy & Technology” Panel, Stanford – 2/25/14
 - 29) “Smartphone Adaptors for Ocular Image Capture” Glaucoma 360, Glaucoma Research Foundation, San Francisco – 2/8/14
 - 30) “Structure and Function in Glaucoma Diagnostics: The Trials and their Impact on the Development of New Technologies” Hawaiian Eye Zeiss Symposium, Kauai – 1/21/14
 - 31) “Visual Field Defects in Myopes and 6 Lessons Using SD-OCT” Glaucoma Update Mettapracharak Hospital, Bangkok, Thailand – 12/27/13
 - 32) “6 Lessons: SD-OCT for Glaucoma” Seoul National University Hospital, Seoul, Korea – 12/23/13
 - 33) Lab 192a and 192b “iPhone Physician Education and Reference Tools” Course Instructor, American Academy of Ophthalmology, New Orleans – 11/17/13
 - 34) “Myopia and Glaucoma: Visual Field Defects in High Myopes” International Symposium of Ophthalmology (ISO), Guangzhou, China – 11/11/13
 - 35) “Glaucoma: Early Diagnosis and Prevention of Blindness” Pan-American Congress of Ophthalmology (PAAO), Rio De Janeiro, Brazil – 8/10/13
 - 36) “Genetics of Glaucoma” Stanford Basic Science Review Course, Palo Alto – 7/24/13
 - 37) “Glaucoma and Myopia: Challenges and Pearls for Progression Detection” World Glaucoma Congress (WGC), Vancouver, Canada – 7/19/13
 - 38) “Update in Ophthalmology” Dominican Hospital CME Lecture, Santa Cruz – 7/12/13
 - 39) Lifeline Express Foundation, Glaucoma International Conference Lectures, Jilin, China – 6/13/13
 - 40) “Fixing the Plumbing of the Eye” American Society of Ophthalmic Registered Nurses (ASORN) Lecture, Palo Alto – 4/27/13
 - 41) “OKAP Glaucoma Review” Stanford Glaucoma Resident Lecture – 2/21/13
 - 42) “The Art of Fundus Photo Interpretation” Glaucoma 360, Glaucoma Research Foundation, San Francisco – 2/2/13
 - 43) “Visual Field Interpretation” Stanford Glaucoma Resident Lecture – 12/20/12
 - 44) Lab 192a and 192b “iPhone Physician Education and Reference Tools” Course Instructor,

- American Academy of Ophthalmology, Chicago – 11/11/12
- 45) “Optic Nerve Interpretation” Stanford Glaucoma Resident Lecture – 10/11/12
 - 46) “OCT Diagnostic Performance Studies” FDA AGS Workshop, Washington D.C. – 10/5/12
 - 47) Lifeline Express Foundation, Glaucoma International Conference Lectures, Zhengzhou, China – 9/1/12-9/2/12
 - 48) “Genetics of Glaucoma” and “Aqueous Dynamics” Stanford Basic Science Review Course, Palo Alto – 7/16/12
 - 49) “OCT: ONH, RNFL, GCA, GPA” Hong Kong Sanatorium and Hospital Grand Rounds, Hong Kong – 7/5/12
 - 50) “Collagen Disease and Glaucoma” Asia Pacific Academy of Ophthalmology (APAO), Busan, Korea – 4/16/12
 - 51) “Myopia and Glaucoma” Glaucoma 360, Glaucoma Research Foundation, San Francisco – 2/3/12
 - 52) “Tube versus Trabeculectomy” Journal Club Stanford – 12/20/11
 - 53) “iPhone Apps and the Present/Future of Patient Education” Grand Rounds Stanford Ophthalmology Department, Palo Alto – 11/1/11
 - 54) Lab 152a and 152b “iPhone Patient Education and Social Media” Course Instructor, American Academy of Ophthalmology, Orlando – 10/24/11
 - 55) “Acute Angle Closure” Stanford Glaucoma Resident Lecture – 10/13/11
 - 56) “Normal Tension Glaucoma” Stanford Glaucoma Resident Lecture – 10/11/11
 - 57) “Cirrus OCT” Seoul National University Hospital, Seoul, Korea – 9/23/11
 - 58) “Glaucoma Overview” Stanford Glaucoma Resident Lecture – 9/1/11
 - 59) Lanzhou University Ophthalmology Conference, Lanzhou, China – 8/12/11
 - 60) “Genetics of Glaucoma” Stanford Basic Science Review Course, Palo Alto – 7/20/11
 - 61) “Trabeculectomy Failure” World Glaucoma Congress (WGC), Paris, France – 7/2/11
 - 62) “Cirrus OCT Ganglion Cell Analysis” Stanford Research Day, Palo Alto – 6/25/11
 - 63) Lifeline Express Foundation, Glaucoma International Conference Lectures, Nanjing and Urumqi, China – 6/19/11-6/23/11
 - 64) “Management of Acute Angle Closure” Asia Pacific Academy of Ophthalmology (APAO), Sydney, Australia – 3/21/11
 - 65) “Glaucoma Technology: Surgical Innovation” Stanford BioDesign Program, Palo Alto – 1/29/11
 - 66) “Cataracts and Glaucoma” Stanford Glaucoma Resident Lecture – 1/18/11
 - 67) “Glaucoma Lasers” Stanford Glaucoma Resident Lecture – 12/23/10
 - 68) Lifeline Express Foundation, Cataract and Glaucoma International Conference Lectures, Lanzhou and Mianyang, China – 12/16/10-12/19/2010
 - 69) “New Glaucoma Surgeries” Stanford Glaucoma Resident Lecture – 10/7/10
 - 70) “Glaucoma Pharmacology” Stanford Glaucoma Resident Lecture – 8/31/10
 - 71) “Glaucoma Devices: Diagnostic and Therapeutic” Stanford BioDesign Program, Palo Alto – 8/26/10
 - 72) “Genetics of Glaucoma” Stanford Basic Science Review Course, Palo Alto – 7/12/10

- 73) “Common Eye Issues” Stanford Physician Assistant (PA) Program – 7/8/10
- 74) “Update on Cirrus OCT RNFL and ONH” Stanford Research Day – 6/12/10
- 75) “Glaucoma Pharmacology” Stanford Glaucoma Resident Lecture – 4/20/10
- 76) “Retcam Goniography” American Glaucoma Society (AGS) Pre-Surgical Meeting, Naples – 3/3/10
- 77) “Tube and Trabeculectomy Postoperative Management” Stanford Glaucoma Resident Lecture – 1/19/10
- 78) “Glaucoma Coding” Stanford Glaucoma Resident Lecture – 11/10/09
- 79) “Optical Coherence Tomography (OCT) in Glaucoma” Chinese Zeiss Meeting, Stanford – 10/21/09
- 80) “Trabectome” Grand Rounds Stanford Ophthalmology Department, Palo Alto – 10/6/09
- 81) “Gonioscopy” Stanford Glaucoma Resident Lecture – 10/8/09
- 82) “Visual Field Testing” Stanford Glaucoma Resident Lecture – 9/1/09

PUBLICATIONS IN PRESS

- 1) Lee R, **Chang RT**, Wong I, Lai J, Lee J, Singh K. “Assessment of corneal biomechanical parameters in myopes and emmetropes using the Corvis ST.” *Clin Exp Optom*. Accepted.
- 2) Chao L, Tsay E, Jacobo SA, Popat R, Singh K, **Chang RT**. “Factors Associated with Press Ganey Satisfaction Scores for Ophthalmology Patients.” *Ophthalmology* Accepted.

PEER-REVIEWED PUBLICATIONS

- 1) Lee R, **Chang RT**, Wong I, Lai J, Lee J, Singh K. Novel Parameter of Corneal Biomechanics That Differentiate Normals from Glaucoma. *J Glaucoma*. 2015 Jun 16. [Epub ahead of print]
- 2) Choi DY, **Chang RT**, Yegnashankaran K, Friedman NJ. Reversible Conjunctival Pigmentation Associated With Prostaglandin Use. *J Glaucoma*. 2015 May 2. [Epub ahead of print]
- 3) Lin SR, Lai I, Dutta S, Singh K, **Chang RT**. Quantitative Measurement of Fixation Stability During Rarebit Perimetry and Humphrey Visual Field Testing. *J Glaucoma*. 2015 Feb;24(2):100-4.
- 4) Do AT, Ilango K, Ramasamy D, Kalidasan S, Balakrishnan V, **Chang RT**. Effectiveness of Low Vision Services in Improving Patient Quality of Life at Aravind Eye Hospital. *Indian J Ophthalmol*. 2014 Dec;62(12):1125-31.
- 5) Lin SR, Fijalkowski N, Lin BR, Li F, Singh K, **Chang RT**. Parallel Rarebit: A Novel, Large-Scale Visual Screening Methodology for School-Age Children. *Clin Exp Optom*. 2014 Nov;97(6):528-33.
- 6) Silva RA, **Chang RT**, Moshfeghi DM, Leng T. Optic Nerve Pit-associated Choroidal Cleft. *JAMA Ophthalmol*. 2014 Sep 1;132(9):1142.
- 7) Wang SK, **Chang RT**. An Emerging Treatment Option For Glaucoma: Rho Kinase Inhibitors. *Clin Ophthalmol*. 2014 May;8: 883-890. eCollection 2014. Review.
- 8) Mwanza JC, Warren JL, Hochberg JT, Budenz DL, **Chang RT**, Ramulu PY. Combining Frequency Doubling Technology and Scanning Laser Polarimetry for Glaucoma Detection. *J Glaucoma*. 2014 Apr 25. [Epub ahead of print]
- 9) Mwanza JC, Budenz DL, Godfrey DG, Neelakantan A, Sayyad FE, **Chang RT**, Lee RK. Diagnostic Performance of Optical Coherence Tomography Ganglion Cell-Inner Plexiform Layer

- Thickness Measurements in Early Glaucoma. *Ophthalmology*. 2014 Apr;121(4):849-54.
- 10) Lee JWY, Chan JCH, **Chang RT**, Singh K, Liu CCL, Gangwani R, Wong MOM, Lai JSM. Corneal Changes After a Single Session of Selective Laser Trabeculoplasty for Open Angle Glaucoma. *Eye (Lond)*. 2014 Jan;28(1):47-52. Epub 2013 Oct 18.
 - 11) **Chang RT**, Singh K. Myopia and Glaucoma: Diagnostic and Therapeutic Challenges. *Curr Opin Ophthalmol*. 2013 Mar;24(2):96-101.
 - 12) **Chang RT**, Shingleton BJ, Singh K. Timely Cataract Surgery for Improved Glaucoma Management. *J Cataract Refract Surg*. 2012 Oct;38(10):1709-10
 - 13) Mwanza JC, Durbin MK, Budenz DL, Sayyad FE, **Chang RT**, et al. Glaucoma Diagnostic Accuracy of Ganglion Cell-Inner Plexiform Layer Thickness: Comparison with Nerve Fiber Layer and Optic Nerve Head. *Ophthalmology*. 2012 Jun;119(6):1151-8. Epub 2012 Feb 23.
 - 14) Mwanza JC, Oakley JD, Budenz DL, **Chang RT**, et al. Macular Ganglion Cell-Inner Plexiform Layer: Automated Detection and Thickness Reproducibility with Spectral-Domain Optical Coherence Tomography in Glaucoma. *Invest Ophthalmol Vis Sci*. 2011 Oct 21;52(11):8323-9.
 - 15) **Chang, RT**. Myopia and Glaucoma. *Int Ophthalmol Clin*. 2011 Summer;51(3):53-63.
 - 16) Bhorade AM, Wilson BS, Gordon MO, Palmberg P, Weinreb RN, Miller E, **Chang RT**, Kass MA; for the Ocular Hypertension Treatment Study Group. The Utility of the Monocular Trial Data from the Ocular Hypertension Treatment Study. *Ophthalmology*. 2010 Jul 8. Epub 2010 Aug 12.
 - 17) Mwanza JC, **Chang RT**, Budenz DL, et al. Reproducibility of Peripapillary Retinal Nerve Fiber Layer Thickness and Optic Nerve Head Parameters Measured with Cirrus™ HD-OCT in Glaucomatous Eyes. *Invest Ophthalmol Vis Sci*. 2010 Jun 23. Epub 2010 Jun 23.
 - 18) **Chang RT**, Knight OJ, Feuer WJ, Budenz DL. Sensitivity and Specificity of Time Domain versus Spectral Domain Optical Coherence Tomography in Diagnosing Early to Moderate Glaucoma. *Ophthalmology*. 2009 Dec;116(12):2294-9. Epub 2009 Oct 2.
 - 19) Knight OJ, **Chang RT**, Feuer WJ, Budenz DL. Comparison of Retinal Nerve Fiber Layer Measurements Using Time Domain OCT and Spectral Domain OCT. *Ophthalmology* 2009 Jul;116(7):1271-7. Epub 2009 Apr 22.
 - 20) **Chang RT**, Budenz DL. Diagnosing Glaucoma Progression. *Int Ophthalmol Clin* 2008 Fall;48(4):13-28. Review.
 - 21) Lujan BJ, Wang F, Gregori G, Rosenfeld PJ, Knighton RW, Puliafito CA, Danis RP, Hubbard LD, **Chang RT**, Budenz DL, Seider MI. Calibration of Fundus Images Using Spectral Domain Optical Coherence Tomography. *Ophthalmic Surg Lasers Imaging* 2008 Jul-Aug;39(4 Suppl):S15-20.
 - 22) **Chang R**, Budenz DL. New Developments in Optical Coherence Tomography for Glaucoma. *Curr Opin Ophthalmol* 2008 Mar;19(2):127-35.
 - 23) Budenz DL, **Chang RT**, Huang X, et al. Reproducibility of Retinal Nerve Fiber Thickness Measurements Using the Stratus OCT in Normal and Glaucomatous Eyes. *Invest Ophthalmol Vis Sci* 2005 Jul;46(7):2440-3.
 - 24) Mino de Kaspar H, **Chang RT**, Singh K, et al. Prospective Randomized Comparison of 2 Different Methods of 5% Povidone-Iodine Applications for Anterior Segment Intraocular Surgery. *Arch Ophthalmol* 2005 Feb;123(2):161-5.
 - 25) Budenz DL, Michael A, **Chang RT**, et al. Sensitivity and Specificity of the STRATUS OCT for Perimetric Glaucoma. *Ophthalmology* 2005 Jan;112(1):3-9.

- 26) De Kaspar HM, **Chang RT**, Shriver EM, et al. Three-day Application of Topical Ofloxacin Reduces the Contamination Rate of Microsurgical Knives in Cataract Surgery: a Prospective Randomized Study. *Ophthalmology* 2004 Jul;111(7):1352-5.
- 27) Ta CN, **Chang RT**, Singh K, et al. Antibiotic Resistance Patterns of Ocular Bacterial Flora: a Prospective Study of Patients Undergoing Anterior Segment Surgery. *Ophthalmology* 2003 Oct;110(10):1946-51.

PUBLICATIONS IN PREPARATION

- 1) Ding X, **Chang RT**, Guo X, Liu X, Holden B, He M. "Visual Field Defect Classification in the Zhongshan Ophthalmic Center- Brien Holden Vision Institute High Myopia Registry Study." Submitted.
- 2) Toy B, Myung D, He L, Pan CK, **Chang RT**, Polkinhorne A, Merrell D, Foster D, Blumenkranz MS. "Smartphone Ophthalmoscopy Lens Adapter as an Inexpensive Screening Tool to Detect Referral-Warranted Diabetic Eye Disease." Submitted.
- 3) Ludwig CA, Murthy S, Pappuru RR, **Chang RT**. "Tele-ophthalmology and Remote Triage Feasibility Study in Hyderabad, India using the EyeGo Low-Cost Smartphone Adapters for Anterior Segment Imaging and Indirect Ophthalmoscopy." Submitted.
- 4) Yang C, Wong I, Lee J, **Chang RT**. "Comparison of Functional Loss and Retinal Nerve Fiber Layer Thinning in Chinese patients with Normal-Tension Versus High-Tension Glaucoma." Submitted.
- 5) Lowry EA, Hou J, Hennein L, **Chang RT**, Lin S, Keenan J, Wang SK, Ianchulev S, Pasquale L, Han Y. "Comparison of Peristat Online Perimetry with Humphrey Perimetry in a Clinic-Based Setting." Submitted.
- 6) Do A, Pilai MR, Balakrishnan V, **Chang RT**, Robin AL, Singh K, Lee BW. "Effectiveness of Glaucoma Counseling on Rates of Follow-up and Glaucoma Knowledge in a South Indian Population." Submitted.
- 7) Ludwig CA, Newsom M, **Chang RT**. "Findings of EyeGo ocular examination performed on 751 Healthy Scholars." In Preparation.
- 8) Coughran A, Chang RT. "Visual Acuity and Contrast Sensitivity with a Smartphone App as Methods to Screen for Early Functional Defects in Glaucoma Patients." In Preparation.
- 9) Hong K, **Chang RT**, Wong I, Singh K. "Testing applanation velocity in normal-tension glaucoma with Scheimpflug-based noncontact device." In Preparation.
- 10) Henderson M, Fijalkowski N, Kapphahn K, Desai M, Kubo J, Stefanick M, Ritch R, Garcia L, Mares JA, Smoller S, Singh K, **Chang RT**. "Dietary, Supplemental and Total Intake of Select Nutrients with Risk of Glaucoma in the Women's Health Initiative (WHI)." In Preparation.
- 11) **Chang RT**, Singh K. "Glaucoma Suspect: Diagnosis and Treatment" Review Article, Asia-Pacific Journal of Ophthalmology. Submitted.
- 12) Cheema A, Shrivastava A, **Chang RT**. "Update on the Medical Treatment of POAG" Review Article, Asia-Pacific Journal of Ophthalmology. Submitted.

NON PEER-REVIEWED PUBLICATIONS AND CITATIONS

- 1) Elkin Z, Choi D, Toy B. Review of "The efficacy and safety of combined cataract surgery with two trabecular micro-bypass stents versus ab-interno trabeculotomy" *Eyeworld Journal Club* Aug 2015.

- 2) Blum K. “These Pearls Have First Class Pedigree” *Ophthalmology Management*. Vol:19, Issue: Jun 2015:30-32.
- 3) **Chang RT**. “Unraveling the Genetics of Glaucoma” *Ophthalmology Times*, G360 Supplement, June 1, 2015.
- 4) **Chang RT**. “Examining the Role of Smartphones in Glaucoma Care” *Glaucoma Today*. May/June 2015.
- 5) Blum K. “Glaucoma Patients Have Cause to Cheer” *Ophthalmology Management*. Vol:19, Issue: Feb 2015:36-38.
- 6) **Chang RT**. “Imaging of the Optic Nerve: What Is It and Why Is It Needed?” *Gleams Sept 2014*. <http://www.glaucoma.org/treatment/imaging-of-the-optic-nerve-what-is-it-and-why-is-it-needed.php>
- 7) **Chang RT**, Myung D. “Advancements in Smartphone Photography of the Eye” *Cataract & Refractive Surgery Today Europe*. Vol 9, Issue 8. Sept 2014.
- 8) **Chang RT**. “Technological Advances in 24-hr IOP Monitoring” *Glaucoma Today*. Vol 12, Issue 4. Aug 2014.
- 9) **Chang RT**. “Smartphone Photography Expected to Accelerate the Age of Telemedicine” *Ophthalmology Times*, Vol 39 No 11, G360 supplement, June 1, 2014.
- 10) **Chang RT**. “A New Look at Corneal Biomechanics” *Ophthalmology Times*, Vol 38 No 16, Sept 15, 2013.
- 11) **Chang RT**. “Fundus Photography Still a Valuable Tool in Glaucoma Care” *Ophthalmology Times*, Vol 38 No 8, Apr 15, 2013.
- 12) **Chang RT**. “High Myopia Poses Challenges” *Ophthalmology Times*, Vol 37 No 12, Jun 15, 2012.
- 13) **Chang RT**. “Cyclodialysis Cleft” *Glaucoma Today*. May/June 2012.
- 14) **Chang RT**, Singh K. “Risk Factors for Visual Field Progression” *View on Glaucoma*. 2012;7(1):18-22.

POSTER PRESENTATIONS

- 1) Do A, Singh K, Pilai M, Balakrishnan V, **Chang R**, Lee B. “Effectiveness of glaucoma counseling on patient follow-up rates and glaucoma knowledge in a South Indian population” The Association for Research and Vision in Ophthalmology (ARVO) poster, Denver – 5/5/15
- 2) Blumenkranz M, Toy B, He L, Myung D, Pan C, Polkinhorne A, Merrell D, Foster D, **Chang R**. “Camera Phone Telemedicine-based Screening for Diabetic Eye Disease” Macula Society, Scottsdale – 2/26/15
- 3) “Design and Rapid Prototyping of a Novel 3-D Printed Smartphone Lens Adapter System” American Academy of Ophthalmology (AAO) Poster PO328, Chicago – 10/20/14
- 4) TEDMED 2014 Stanford EyeGo Exhibit, San Francisco – 9/11/14
- 5) Myung D, Toy B, Jais A, **Chang R**, He L, Blumenkranz B. “Camera Phone Telemedicine-based Screening for Diabetic Eye Disease” American Society of Retina Specialists (ASRS), San Diego – 8/12/14
- 6) “iPhone Photography of Eye Pathology for Remote Triage,” “Corneal Applanation Velocity as a Risk Factor for Normal Tension Glaucoma” The Association for Research and Vision in Ophthalmology (ARVO) posters, Orlando – May 5-7, 2014

- 7) Choi D, Pershing S, Vaziri K, Moshfeghi D, **Chang RT**. “Increasing Incidence of Conjunctival Lesion Excisions After Popularization of Prostaglandin Analogs” American Society of Cataract and Refractive Surgery (ASCRS) Presentation, Boston – 4/26/14
- 8) “Analyzing Shape Parameterization of SD-OCT Optic Nerve Head Images in High Myopes as a Predictor of Visual Field Defects,” “Cirrus SD-OCT Ganglion Cell Analysis Segmentation Errors in High Myopes,” “Clinical Utility of Web-based Office and Home Peristat for the Detection of Visual Field Defects in Glaucoma Patients,” “Comparison of Online Perimetry and Humphrey Visual Field in Patients with Glaucoma,” “Diagnostic Efficacy of RNFL Thickness Sectors for Glaucoma Detection” The Association for Research and Vision in Ophthalmology (ARVO) posters, Seattle – May 6-8, 2013
- 9) Lu W, Oakley J, Russakoff D, **Chang RT**. Vitreo-Retinal Interface Segmentation from Spectral-domain OCT using Change Detection and Belief Propagation. International Symposium on Biomedical Imaging (ISBI) Paper Presentation, San Francisco – 4/8/13
- 10) Lin BR, Lin SR, Lai IN, Chang, RT. Ophthalmology in a Web 2.0 World: Building a Next-Generation Medical Education Tool. American Medical Student Association (AMSA) Poster Presentation, Washington D.C. – 3/16/13
- 11) Lee R, **Chang RT**, Wong I, and Singh K. Novel Corneal Biomechanical Parameters in Glaucoma Eyes vs. Normal Eyes. American Glaucoma Society (AGS) Poster Presentation, San Francisco – 3/1/13
- 12) Lin SR, Lai IN, **Chang RT**, Dutta S, Singh K. Comparison of Fixation Target Stability for RareBit and Humphrey Visual Field Tests, European Glaucoma Society (EGS) Poster Presentation, Copenhagen, Denmark – 6/20/12

PATENTS

- 1) Stanford Office of Technology and Licensing: S13-195/PCT, Smartphone lens adapters for mobile anterior and posterior segment ophthalmoscopy, filed 5/30/14. Licensed 7/10/15.

DIGITAL MEDIA

- 1) Digital health innovation course helps transform Chinese healthcare delivery <http://scpk.fsi.stanford.edu/news/digital-health-innovation-course-helps-transform-chinese-healthcare-delivery>
- 2) Digital Health “Internet+” Innovation Course Co-Instructor, <http://www.dhealthchina.com> <http://scpk.fsi.stanford.edu/content/china-digital-health-boot-camp-needfinding-prototyping-and-business-modeling-transform>
- 3) Website director and faculty advisor, <http://www.eyeguru.org/>
- 4) Advisor to Team Fusion Systems, placed #15/661, <https://www.kaggle.com/c/diabetic-retinopathy-detection/leaderboard>, 7/27/15.
- 5) “Unraveling the Genetics of Glaucoma for Potential Therapies” <http://ophthalmologytimes.modernmedicine.com/ophthalmologytimes/news/unraveling-genetics-glaucoma-potential-therapies>, 6/1/15
- 6) “Smartphone Camera Adapters Get Simpler” *Review of Ophthalmology*. http://www.reviewofophthalmology.com/content/d/technology_update/i/3076/c/51484/, 11/11/14.

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- 8) ABC 7 News, Tim Didion <http://abc7news.com/health/iphone-eye-camera-tested-at-stanford-hospital/166373/>, 7/7/14.
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- 10) CBS Interactive CNET Video, Sumi Das <http://www.cnet.com/videos/how-the-iphone-is-zooming-in-on-eye-care/>, 5/28/14
- 11) SF Chronicle Newspaper Article, Stephanie Lee <http://www.sfgate.com/technology/article/Phone-adaptor-gives-doctors-closer-look-at-5433803.php>, 4/27/14
- 12) “Make Your Smartphone an 'EyePhone'” *Review of Optometry*. http://www.revoptom.com/content/d/news_review/i/2823/c/47782/, 4/14/14
- 13) The Osgood File, <http://www.westwood-backup.com/pg/jsp/osgood/transcript.jsp?pid=38355>, 4/1/14
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- 1) Fisher A, **Chang RT**, Singh K. “92. Technique” Shaarawy & Sherwood & Hitchings & Crowston [ed.] *Glaucoma 2nd edition*. Elsevier, 2014.
- 2) **Chang RT**, Budenz DL. “9. Early Postoperative Bleb Maintenance” Johnson, Sandra M [ed.] *Cataract Surgery in the Glaucoma Patient*, New York: Springer-Verlag, 2009.

EDITORIAL SERVICE AND ADVISORY BOARDS

- 1) Consultant, Transcend Medical – 8/5/15 to present
- 2) Consultant, Allergan – 7/25/15 to present
- 3) Advisory Board Member, Kali Care – 6/14/15 to present
- 4) Health++ Stanford Student Organization Advisor – 4/17/15 to present
- 5) Advisory Board Meeting, Allergan – 5/15/15
- 6) National Eye Institute (NEI) ZEY1VSN01 Invited Reviewer – 3/17/15
- 7) Transcend Medical COMPASS Study Clinical Events Committee Member – 3/9/15
- 8) National Eye Institute (NEI) Audacious Goals ZEY1VSN05 Invited Reviewer – 12/11/14
- 9) Advisory Board Member, MoreHealth – 10/13/14 to present
- 10) Advisory Meeting, Transcend Medical – 5/14/14
- 11) Advisory Board Meeting, Allergan – 3/14/14

- 12) Consultant, Carl Zeiss Meditec – 1/21/14 to present
- 13) National Advisory Board Meeting, SuCampo Pharmaceuticals – 11/14/13
- 14) Advisory Board Meeting, Allergan – 2/28/13
- 15) Regional Advisory Board Meeting, SuCampo Pharmaceuticals – 12/1/12
- 16) Advanced Glaucoma Surgery Advisory Council Board, Alcon/Novartis – 8/3/12
- 17) Glaucoma Advisory Board, Alcon/Novartis – 10/23/11
- 18) American Glaucoma Society (AGS) Multimedia Committee – 3/3/11 to 12/31/14
- 19) Editorial Advisory Board for Advances in Therapy – 10/12/09 to present
- 20) Ad Hoc Reviewer for Ophthalmology, Journal of Cataract and Refractive Surgery, British Journal of Ophthalmology, Eye.
- 21) British Medical Journal Best Practice Expert Contributor – 7/12/13 to present
- 22) Keeyoursight.org Foundation Volunteer Technology Advisor – 7/31/13 to 3/31/14

PROFESSIONAL MEMBERSHIPS

- 2007 - *present* Fellow, American Academy of Ophthalmology (AAO)
 2009 - *present* Member, American Glaucoma Society (AGS)

COMMUNITY SERVICE

- 1) Pacific Free Clinic Volunteer Stanford Faculty – 2015 to present
- 2) Arbor Free Clinic Volunteer Stanford Faculty – 2014 to present
- 3) Healthy Scholars Foundation Advisory Board – 2014 to present
- 4) Stanford Immersion in Medicine Series (SIMS) Shadowing Program Mentor – 2014 to present
- 5) Faculty Mentor for Stanford Class Med 275B: Biomedical Innovation Incubator – 2014 to present
- 6) Lifeline Express Foundation Volunteer Educator, annual trips, China – 2010 to present
- 7) Vision Health Fair Volunteer and Disc Photo Reading Center Volunteer, Prevent Blindness Northern California – 2010, 2014
- 8) International Aid Volunteer, Tema Eye Clinic, Ghana – July 2008