David Huang, MD, PhD

CURRICULUM VITAE

# Personal Information:

Name in Full David Huang

Business Address Oregon Health & Science University

 Casey Eye Institute

 3375 S.W. Terwilliger Blvd.

 Portland, OR 97239-4197

E-Mail Address davidhuang@alum.mit.edu

# Education:

High School Avoca Central School, Avoca, NY, 1981

College Massachusetts Institute of Technology, B.S., 1985

 Electrical Engineering

Graduate School Massachusetts Institute of Technology, M.S., 1989

 Electrical Engineering

 Massachusetts Institute of Technology, Ph.D., 1993

 Medical Engineering & Medical Physics

Medical School Harvard Medical School, M.D., 1993

Internship Mercy Hospital, San Diego, July 1993-June1994, Transitional-Year Internship

Residencies University of Southern California, July 1994-June

 1997, Ophthalmology

Fellowship Emory University, July 1997-June 1998

 Cornea, external diseases, and refractive surgery

Medical License Oregon, 2010-current (Certificate MD152539)

Board Certification American Board of Ophthalmology, 1999-current

# Professional Background:

## Academic appointments

Associate Staff in Refractive Surgery, Cornea, and Biomedical Engineering, Cleveland Clinic Foundation, October1998-August 2004

Assistant Professor of Ophthalmology, Ohio State University, 1999-2003

Adjunct Assistant Professor of Biomedical Engineering, Ohio State University, 1999-2004

Adjunct Assistant Professor of Biomedical Engineering, Case University, 1999-2008

Associate Professor of Ophthalmology, University of Southern California, 2004-2010

Associate Professor of Biomedical Engineering (secondary), University of Southern California, 2007-2010

Charles C. Manger III, MD Chair in Corneal Laser Surgery, University of Southern California, 2007-2010

Associate Professor of Ophthalmology with tenure, University of Southern California, 2009-2010

Visiting Professor of Biomedical Engineering and Instrumentation Science, Zhejiang University, Hangzhou, China, 2009-2010

John E. Weeks, MD Endowed Professorship in Ophthalmic Research, Oregon Health & Science University, 2010-2014

Professor of Biomedical Engineering, Oregon Health & Science University, 2011-present

Martha and Eddie Peterson Endowed Professorship in Ophthalmology, Oregon Health & Science University, 2014-present

## Honors and Awards

EDUCOM/NCRIPTAL National Award for Best Engineering Software, 1990.

Clement Vaturi Fellowship in Biomedical Imaging, 1992-1993

Nesburn Award for Best Research Paper Submitted by a Resident, presented at Los Angeles Society of Ophthalmology meeting, 1996.

American Academy of Ophthalmology Achievement Award, 2004.

Best Paper of Session Award in Intraocular Surgery: Precision in IOL Surgery, *American Society of Cataract and Refractive Surgery Annual Meeting*, San Diego, 2007.

Charles C. Manger III, MD Chair in Corneal Laser Surgery, First Chair Holder, 2007.

Listed in [www.TrustedLasikSurgeons.com](http://www.TrustedLasikSurgeons.com) directory service 2008-2012. The directory is based on research, experience, and premier patient care.

Listed in *Guide to America’s Top Ophthalmologists* 2008 and 2011 editions, published by the Consumers’ Research Council of America. The selection is based on education, years in practice, and affiliations with professional associations.

Listed as one of the *Top Doctors* in San Gabriel Valley in the *Pasadena* Magazine, 2008-2009. The selection was based on voting by peers (other doctors).

Certificate of Appreciation, Chinese Society of Ophthalmology, June 21, 2008. Awarded by Chairwoman Li Xiao Xin for a lecture given in Beijing, China.

Ulrich Ollendorff Memorial Lecture, Harkness Eye Institute, Columbia University, New York City, NY, April 2, 2009.

Bausch & Lomb Visiting Professorship, University of Rochester, NY, April 24-25, 2009.

Visiting Professor of Biomedical Engineering and Instrumentation Science, Zhejiang University, Hangzhou, China, 2009-present.

Listed as one of the *Best Doctors in Southern California* in the *Los Angeles Times* Magazine, 2009.

Certificate of Appreciation, EyeWiki, July 7, 2010. Awarded for exemplary service as an Editor for EyeWiki’s successful launch.

John E. Weeks, MD Endowed Professorship of Ophthalmic Research, Oregon Health & Science University, 2010- June 2014.

Gabriel Coscas Medal Award, presented by Dr. Bruno Lumbroso at *Corso Intensivo di OCT,* Rome, Italy, September 17, 2010.

John E. Weeks, MD Endowed Professorship in Ophthalmic Research, Oregon Health & Science University, 2010-2014

Richard L. Lindstrom Lecture, Contact Lens Association of Ophthalmologists/American Society of Cataract and Refractive Surgery Annual Meeting, San Diego, CA, March 28, 2011.

Top Ten Industry Collaboration Award, Technology Innovation Award, Oregon Health and Science University, 2011.

Senior Achievement Award, American Academy of Ophthalmology, 2011.

American-European Congress of Ophthalmic Surgery*,* Founding Member, 2011.

Best Doctors in America® 2007-2014, a directory service that select the best doctors based on the evaluation by other doctors in the same specialty

Senior Member Designation, Optical Society of America, 2012.

**The Antonio Champalimaud Vision Award**, 2012. The $1.3 million prize is the largest award for vision research. The 2012 award was shared between 6 recipients for the development of 2 novel approaches to imaging the eye – optical coherence tomography and adaptive optics. Lisbon, Portugal. September 2012.

New Inventor of the Year Award, Technology Transfer & Business Development, Oregon Health and Science University, 2012.

 Founders Award - Best Invited Presentation, 14th International Congress on Wavefront & Presbyopic Refractive Corrections. Hollywood, FL. February 2013.

 **Jonas Friedenwald Award** for outstanding research in the basic or clinical sciences as applied to ophthalmology. Presented at the Annual Meeting of the Association for Research in Vision & Ophthalmology, Seattle, WA. May 8, 2013.

 American Ophthalmological Society, elected May 2013.

 ARVO Silver Fellow. Association for Research in Vision & Ophthalmology. Orlando, FL. May 2014.

 Martha and Eddie Peterson Endowed Professorship in Ophthalmology, Oregon Health & Science University, July 2014-present.

 CAOS Pioneer in Ophthalmology Award. Chinese American Ophthalmological Society. October 2014.

Outstanding Contribution Award for Overseas Chinese. Chinese Ophthalmological Society. Xi’an, China. September 2014.

 PowerList 2014. Top 100 most influential people in the world of ophthalmology, #9. [*The Ophthalmologist*](https://theophthalmologist.com/power-list/2014).

 PowerList 2016. Top 100 most influential people in the world of ophthalmology, #4. [*The Ophthalmologist*](https://theophthalmologist.com/power-list/2016)*.*

 Faculty Senate Award. Oregon Health & Science University, School of Medicine: Research. 2016.

 Development of Improved Optical Coherence Tomography Glaucoma Diagnostic Algorithms. Oregon Health & Science University, Technology Transfer & Business Development Award. 2016.

 Development of Anterior Segment Optical Coherence Tomography Diagnostic Algorithms. Oregon Health & Science University, Technology Transfer & Business Development Award. 2016.

 Technology Transfer Achievement Award. Oregon Health & Science University, Technology Transfer & Business Development Award. 2016.

Shiley Institute Distinguished Visiting Professor Grand Rounds Lecture. University of California-San Diego,. San Diego, CA. January 2017.

**Fritz J. and Dolores H. Russ Prize Award. National Academy of Engineering**. The Russ Prize recognizes an outstanding bioengineering achievement in widespread use that improves the human condition in areas ranging from biomedical instrumentation and prosthetic technologies to pharmaceutical processing and diagnostic technologies. Washington, DC. February 2017.

Fellow, National Academy of Inventors. Academic inventors and innovators elected to the rank of [NAI Fellow](http://www.academyofinventors.org/fellows.asp) were nominated by their peers for outstanding contributions to innovation in areas such as patents and licensing, innovative discovery and technology, significant impact on society, and support and enhancement of innovation. Boston, MA. April 2017.

Dr. David L. Epstein Award. This annual award recognizes a senior investigator in glaucoma who has a strong record of mentoring clinician-scientists to independent research in academic careers. Baltimore, MD. May 2017.

Distinguished Alumnus. 48th Annual Doheny Days Conference. Los Angeles, CA. June 2017.

PowerList 2019. Top 100 most influential people in the world of ophthalmology, #1 in the inventors category. [*The Ophthalmologist*](https://theophthalmologist.com/power-list/2016)*.*

USC Roski Eye Institute Alumni Award. University of Southern California. Los Angeles, CA. June 15, 2019.

## Specific teaching responsibilities (list courses taught)

### Continuing Medical Education.

1. **Huang D,** Applegate R, Krueger RR, Stulting RD, Pettit G. Constructing LASIK nomograms for the correction of spherical, astigmatic, and higher order refractive errors. *American Academy of Ophthalmology Annual Meeting.* Dallas, TX. October 2000.
2. **Huang D.**  Flap issues in LASIK. *American Academy of Ophthalmology.*  Dallas, TX. October 2000.
3. **Huang D,** Applegate R, Krueger RR, Stulting RD, Pettit G. Constructing LASIK nomograms for the correction of spherical, astigmatic, and higher order refractive errors. *American Academy of Ophthalmology Annual Meeting.*  Dallas, TX. October 2001.
4. **Huang D,** Dueker DK, Kaiser P, Schuman JS, Smith SD. Optical coherence tomography. *American Academy of Ophthalmology Annual Meeting.*  Orlando, FL. October 2002.
5. **Huang D,** Baikoff G, Dueker DK, Kaiser P, Schuman JS, Smith SD. Optical coherence tomography. *American Academy of Ophthalmology Annual Meeting.*  Anaheim, CA. November 15-18, 2003.
6. **Huang D,** Baikoff GD, Smith SD. Corneal and anterior segment optical coherence tomography. *American Academy of Ophthalmology Annual Meeting.*  New Orleans, LA. October 23-26, 2004.
7. **Huang D,** Chauhan BC, Rockwood EJ, Schuman JS, Smith SD. Advanced Imaging for Glaucoma. *American Academy of Ophthalmology Annual Meetin.*  New Orleans, LA. October 23-26, 2004.
8. **Huang D.**  Course Director. Refractive surgery update. Doheny Eye Institute, University of Southern California. Los Angeles, CA. 2004.
9. Song JC, **Huang D.**  VISX Laser certification course. Doheny Eye Institute, University of Southern California. Los Angeles, CA. 2004.
10. **Huang D,** Baikoff GD, Smith SD. Corneal and anterior segment optical coherence tomography. *American Academy of Ophthalmology Annual Meeting.*  Chicago, IL. October 15-18, 2005.
11. **Huang D,** Schuman JS, Garway-Heath D, Fechtner RD. Quantitative imaging for glaucoma. *American Academy of Ophthalmology Annual Meeting.*  Chicago, IL. October 15-18, 2005.
12. **Huang D.**  Course Director. Refractive implants. Doheny Eye Institute, University of Southern California. Los Angeles, CA. 2005.
13. Song JC, **Huang D.**  VISX Laser certification course. Doheny Eye Institute, University of Southern California. Los Angeles, CA. 2005.
14. Baikoff G, Guell J, **Huang D,** Ahmed IK, Vukich J. Anterior segment imaging with optical coherence tomography. *American Society of Cataract and Refractive Surgery Annual Meeting*. San Francisco, CA. March 18-20, 2006.
15. **Huang D,** Baikoff GD, Chopra V. Corneal and anterior segment optical coherence tomography. *American Academy of Ophthalmology Annual Meeting*. Las Vegas, NV. November 2006.
16. **Huang D,** Schuman JS, Garway-Heath D, Zangwill LM. Quantitative imaging for glaucoma. *American Academy of Ophthalmology Annual Meeting.*  Las Vegas, NV. November 2006.
17. Song JC, **Huang D.**  VISX Laser certification course. Doheny Eye Institute, University of Southern California. Los Angeles, CA. 2006.
18. **Huang D,** Schuman JS, Garway-Heath D, Medeiros FA. Quantitative imaging for glaucoma. *American Academy of Ophthalmology Annual Meeting.*  New Orleans, LA. November 10-13, 2007.
19. **Huang D,** Lim JI, Fawzi AA, Chang S. Fourier-domain optical coherence tomography in retinal diseases. *American Academy of Ophthalmology Annual Meeting.*  New Orleans, LA. November 10-13, 2007.
20. **Huang D.**  Evolving Technologies for Early Glaucoma Detection. Fourier-domain OCT and Doppler OCT. Doheny Eye Institute, University of Southern California. Los Angeles, CA. April 12, 2008.
21. **Huang D.**  Corneal/External Disease: Emerging Strategies for Diagnosis & Disease Management. Intraocular Lens Calculation after LASIK with Anterior Segment OCT. Doheny Eye Institute, University of Southern California. Los Angeles, CA. May 10, 2008.
22. **Huang D,** Chang S, Fawzi AA, Gomi F, Lim JI, Sadda SR. Fourier-domain optical coherence tomography in retinal diseases. *American Academy of Ophthalmology Annual Meeting*. Atlanta, GA. November 8-11, 2008.
23. **Huang D,** Chopra V, Francis BA, Schuman JS. Fourier-domain OCT in glaucoma. *American Academy of Ophthalmology Annual Meeting.*  Atlanta, GA. November 8-11, 2008.
24. **Huang D.**  Laser assisted corneal transplantation. A deeper look at keratoplasty Symposium. Tissue Bank International and the Doheny Eye Institute, University of Southern California. Los Angeles, CA. May 30, 2009.
25. **Huang D.**  Corneal mapping and measurements with optical coherence tomography. Doheny Day Conference. Doheny Eye Institute, University of Southern California. Los Angeles, CA. June 12-13, 2009.
26. Song JC, **Huang D.**  VISX Laser certification course. Doheny Eye Institute, University of Southern California. Los Angeles, CA. September 26, 2009.
27. **Huang D,** Chang S, Fawzi AA, Lim LI, Sadda SR. Fourier-domain optical coherence tomography in retinal diseases. *American Academy of Ophthalmology Annual Meeting*. San Francisco, CA. October 24-27, 2009.
28. **Huang D.**  Co-instructor. Imaging of the anterior segment of the eye (OCT, Confocal, Scheimpflug, etc). *American Academy of Ophthalmology Annual Meeting*. San Francisco, CA. October 24-27, 2009.
29. **Huang D.**  Course Director. *Innovations in Refractive Surgery CME Symposium*, Doheny Eye Institute, University of Southern California. Los Angeles, CA. December 12, 2009.
30. **Huang D.**  Using optical coherence tomography to plan transepithelial phototherapeutic Keratectomy. *Innovations in Refractive Surgery CME Symposium.*  Doheny Eye Institute, University of Southern California. Los Angeles, CA. December 12, 2009.
31. **Huang D.**  Guiding anterior segment procedures with optical coherence tomography. 78th Midwinter Conference of the Research Study Club. Los Angeles, CA. January 16, 2010.
32. **Huang D,** Chang S, Fawzi AA, Gomi F, Lim JI, Sadda SR. Fourier-domain optical coherence tomography in retinal diseases. *American Academy of Ophthalmology Annual Meeting*. Chicago, IL. October 17, 2010.
33. **Huang D.**  Optical coherence tomography from the front to the back of the eye. Ophthamology Grand Rounds. Devers Eye Institute. Portland, OR. November 5, 2010.
34. **Huang D.**  Glaucoma diagnosis with optical coherence tomography. *Hawaiian Eye 2011*. Kaanapali, Maui. 2011.
35. **Huang D.**  Beveled astigmatic keratotomy performed with femtosecond laser in post-keratotomy eyes. *Hawaiian Eye 2011.*  Kaanapali, Maui. January 2011.
36. **Huang D.**  Keratoconus diagnosis with optical coherence tomography. *Hawaiian Eye 2011*. Kaanapali, Maui. January 2011.
37. **Huang D.**  What is new in optical coherence tomography? *Oregon Ophthalmologic Alumni Association* *Annual Meeting*. Portland, OR. October 2011.
38. **Huang D**. Retinal blood flow in glaucoma and other eye diseases. Hawaiian Eye. Wallea, Maui. January 2012.
39. **Huang D**. Functional imaging with ultrahigh-speed OCT. *Oregon Ophthalmologic Alumni Association* *Annual Meeting*. Portland, OR. June 2012.
40. **Huang D,** Baikoff G, Koch DD. Anterior segment optical coherence tomography. *American Academy of Ophthalmology Course*. Chicago, IL. November 2012.
41. **Huang D**. OCT angiography of ONH blood floow in glaucoma. Hawaiian Eye. Waikoloa, Hawaii. January 2013.
42. **Huang D**. Evaluating the risk of glaucoma progression with OCT. Hawaiian Eye. Waikoloa, Hawaii. January 2013.
43. **Huang D**. Functional OCT for Glaucoma Evaluation. Hawaiian Eye Physician’s Program. Kauai, HI. January 2014.
44. Lead organizer, OCT Angiography Summit, Oregon Health & Science University. Portland, OR. 2015.
45. **Huang D,** Baikoff G, Koch DD. Anterior segment optical coherence tomography. *American Academy of Ophthalmology Course*. New Orleans, LA. November 2013.
46. Huang D, et al., OCT Angiography in Retinal Diseases, didactic course at the American Academy of Ophthalmology Annual Meeting, 2016.
47. **Huang D.** Future innovations in OCT Technology*. International Retinal Imaging Symposium (IRIS)*. March 2016.
48. Lead organizer, OCT Angiography Summit, Oregon Health & Science University. Portland, OR. 2016.
49. **Huang D**. Optical Coherence Tomography Angiography Oregon Academy of Ophthalmology 2017 Post Graduate Convention Annual Conference MD Program. Portland, OR. March 2017.
50. Huang D. Anterior Segment Imaging. Grand Rounds, Casey Eye Institute. Portland, OR September 2017.
51. **Huang D.**  Project-resolved OCT angiography. International Retina Imaging Society. Los Angeles, CA. March 2017.
52. **Huang D.** Anterior Segment Imaging. Grand Rounds, Casey Eye Institute. Portland, OR September 2017.
53. **Huang D**, et al., OCT Angiography in Retinal Diseases, didactic course at the American Academy of Ophthalmology Annual Meeting, 2017.
54. **Huang D**, et al., OCT Angiography in Retinal Diseases, didactic course at the American Academy of Ophthalmology Annual Meeting, 2018.
55. **Huang D**, et al., Corneal tomography and topography for refractive and cataract surgeons, American Society of Cataract & Refractive Surgery Annual Meeting, 2018.
56. **Huang D**. Subclinical Keratoconus Detection by Pattern Analysis of Epithelial Maps with OCT, AAO Symposium. San Fransisco, CA. October 11, 2019.
57. **Huang D**, et al., OCT Angiography in Retinal Disease, AAO Symposium. San Fransisco, CA. October 14, 2019.

### Resident & Fellow Physician Education

1. Lectures to residents and fellows at the Cole Eye Institute, 2000-2003: “Physical Optics,” “Ophthalmic Optics,” “Optical Coherence Tomography,” “Refractive Surgery Diagnostics,” “LASIK Complications”
2. Teaching of surgery and clinical ophthalmology to residents and fellows at the Cleveland Clinic Cole Eye Institute, 1998-2004
3. Teaching of surgery and clinical ophthalmology to residents and fellows at the Department of Ophthalmology, University of Southern California Keck School of Medicine, 2004-2010
4. Proctor resident cataract surgery, Los Angeles County-University of Southern California Medical Center, 1 day per month, 2005-2010
5. Lectures to residents and fellows at the Department of Ophthalmology, University of Southern California Keck School of Medicine, 2005: “Corneal Degenerative and Ectatic Diseases,” “Refractive Surgery Diagnostics,” “Microkeratomes,” “Refractive Surgery Procedures”
6. Lectures to residents and fellows at the Department of Ophthalmology, University of Southern California Keck School of Medicine, 2006: “Degenerative and aging processes of the eye,” “Clinical approach to corneal ectasia” “Basic concepts of corneal transplantation,” “Clinical approach to corneal transplantation”
7. Lectures to residents and fellows at the Department of Ophthalmology, University of Southern California Keck School of Medicine, 2007: “Degenerative and aging processes of the eye,” “Clinical approach to corneal ectasia” “Basic concepts of corneal transplantation,” “Clinical approach to corneal transplantation”
8. Lectures to residents and fellows at the Department of Ophthalmology, University of Southern California Keck School of Medicine, 2008: “Degenerative and aging processes of the eye,” “Clinical approach to corneal ectasia” “Basic concepts of corneal transplantation,” “Clinical approach to corneal transplantation”
9. Proctor cornea fellow surgery, Los Angeles County-University of Southern California Medical Center, 1 day per month, 2008-2010
10. Lectures to residents and fellows at the Department of Ophthalmology, University of Southern California Keck School of Medicine, 2009: “Degenerative and aging processes of the eye,” “Clinical approach to corneal ectasia” “Basic concepts of corneal transplantation,” “Clinical approach to corneal transplantation” “Conventional and laser techniques for corneal transplantation”
11. Scientific Writing Workshop for residents and fellows at the Casey Eye Institute, Oregon Health & Science University. Given Annually 2017, 2018, 2019.
12. Resident lecture series at the Casey Eye Institute, Oregon Health & Science University “Science of refractive surgery,” “Patient work-up,” “Photoablation.” Given biennually 2017, 2019.

### Medical Student Education

1. Lecture on “The Red Eye” to medical students at the Ohio State University in 2001

### Nursing Staff and Allied Health Education

1. Lecture on “Conventional and laser techniques for corneal transplantation” to operating room staff at University of Southern California University Hospital, February 13, 2009
2. Huang D. “Glaucoma Diagnosis with Optical Coherence Tomography.” *Hawaiian Eye 2011*, Kaanapali, Maui, 2011.
3. Huang D. Course Instructor, 20 Years of optical coherence tomography. Ophthalmic Photographers’ Society, Inc. 2011.
4. **Huang D**. Functional OCT for Glaucoma Evaluation. Hawaiian Eye Nursing Program, Kauai, HI. January 2014.
5. Huang D. OCT Angiography Course. Ophthalmic Photographers’ Society Annual Educational Program. New Orleans, LA. November 10, 2017.
6. Huang D. OCT Angiography Course. Ophthalmic Photographers’ Society Annual Educational Program. Chicago, October 26, 2018.
7. Huang D. OCT-A Interpretation. Ophthalmic Photographers’ Society Annual Educational Program. San Fransisco, CA. October 11, 2019.

### Graduate Education

1. University of Southern California *BME 533 Biomedical Engineering Graduate Seminar* lecture “Optical Coherence Tomography of the Eye”, September 17, 2007
2. University of Southern California *BME 505Lab Biomedical Engineering Laboratory Rotations Program*, graduate student research advisor, Fall 2007
3. University of Southern California *BME670 Early Visual Processing*” lecture “Optical Coherence Tomography of the Retina”, October 8, 2007
4. University of Southern California *BME670 Early Visual Processing*” lecture “Optical Coherence Tomography of the Retina”, October 6, 2009
5. Oregon Health & Sciences University *Biomedical Engineering Graduate Seminar* lecture, “Optical Coherence Tomography in Ophthalmology”, October 1, 2010.
6. Huang D. Co-Instructor. PHPH 621 Vision Science: Theoretical, Translational and Clinical Aspects. *Ocular Imaging: Clinical*. Oregon Helath & Science University. Portland, OR. Fall 2016.
7. Huang D. Co-Instructor. PHPH 621 Vision Science: Theoretical, Translational and Clinical Aspects. *Ocular Imaging: Principles*. Oregon Helath & Science University. Portland, OR. Fall 2018.

 Undergraduate Education

1. Case University EBME 313 Undergraduate biomedical engineering laboratory, Fall 2002. Instructor of laboratory session on optical coherence tomography
2. University of Southern California Biomedical Engineering Seminar lecture “Optical Coherence Tomography in the Anterior Segment of the Eye”, October 2004
3. University of Southern California Biomedical Engineering Seminar lecture “Optical Coherence Tomography of the Eye”, February 27, 2006

## Supervision of trainees

### Clinical Fellow Clinical & Surgical Training

1. Navin Tekwani, MD, Cleveland Clinic cornea fellow, 2000-2001
2. Farnaz Memarzadeh, MD, USC cornea fellow, 2005-2006
3. Bibiana Jin Reiser, MD, USC cornea fellow, 2006-2007
4. Derek Montgomery, MD, USC cornea fellow, 2006-2007
5. Sandhya Iyer, MD, USC cornea fellow, 2007-2008
6. Victoria Chen-Espinoza, MD, USC cornea fellow, 2007-2008
7. Martin Heur, MD, PhD, USC cornea fellow, 2008-2009
8. Lisa Hwang, MD, USC cornea fellow, 2008-2009
9. Matthew Bujak, MD, USC cornea fellow, 2009-2010
10. Habeeb Ahmad, MD, USC cornea fellow, 2009-2010
11. Michael Page, MD, OHSU cornea fellow, 2010-2011

### Resident & Fellow Physician Research Preceptorship

1. Bennie Jeng, MD, Cleveland Clinic ophthalmology resident, 2001
2. Navin Tekwani, MD, Cleveland Clinic cornea fellow, 2001-2002
3. Jason Goldsmith, MD, Cleveland Clinic ophthalmology resident, 2002-2003
4. Maria Regina Catai Chalita, MD, Cleveland Clinic cornea fellow 2002-2003
5. Farnaz Memarzadeh, MD, USC cornea fellow, 2005-2006
6. Gisele Li, MD, USC glaucoma fellow, 2005-2006
7. Mariana Pereira de Avila, MD, USC research fellow, 2005-2006
8. Harsha Reddy, MD, USC ophthalmology resident, 2005-2006
9. Rahul Khurana, MD, USC ophthalmology resident, 2005-2006
10. Michael Lai, MD, USC ophthalmology resident, 2005-2006
11. Bibiana Jin Reiser, MD, USC cornea fellow, 2006-2007
12. Mingwu Wang, MD, USC ophthalmology resident, 2007-2008
13. Sandhya Iyer, MD, USC cornea fellow, 2007-2008
14. Jose Luis Ramos, MD, USC research fellow, 2007-2008
15. Camila Salaroli, MD, USC research fellow, 2008-2009
16. Martin Heur, MD, PhD, USC cornea fellow, 2008-2009
17. Sheng Zhou, MD, USC cornea fellow, 2009
18. Habeeb Ahmad, MD, USC cornea fellow, 2009-2010
19. Nehal Samy, MD, USC research fellow 2009-2010
20. Chunhui Jiang, MD, USC research fellow 2009
21. Bing Qin, MD, USC research fellow 2009-2010
22. Phillip Phuc Le, USC ophthalmology resident 2009-2010
23. Michael I. Seider, MD, Intern 2009-2010
24. Catherine Cleary, MD, USC research fellow 2010
25. Bing Qin, MD, OHSU research fellow, 2010-2011
26. Julie Schallhorn, MD, OHSU cornea fellow, 2014-15
27. Elizabeth Silbermann, MD, OHSU multiple sclerosis fellow 2019-2020

### Resident Physician Academic Preceptorship

1. Brandon Lee, MD, USC ophthalmology resident, 2007-2010

### Medical Student Research Supervision

1. Julie M. Schallhorn, USC medical student, 2006-2009 (Prof. of Ophthalmology)
2. Pho Nguyen, USC medical student, 2007 (Ophthalmology)
3. Gilbert Essilfie, USC medical student, 2007 (Internal Medicine)
4. Omar Ragab, USC medical student, 2007 (Prof. of Radiation Oncology)
5. Timothy Hsia, USC medical student, 2009 (Ophthalmology)
6. Eric Wei, University of California at Irvine, 2018
7. Keke Liu, U Hawaii medical student, 2020-2021

### Graduate Student Research Supervision

1. Ph.D. thesis advisor for Maolong Tang, PhD student in Biomedical Engineering, Ohio State University, 2000-2005
2. Ph.D. thesis advisor for Yan Li, PhD student in Biomedical Engineering, Case University 2000-2008
3. M.S. thesis advisor, Sung Wook Jeon, MS student in Biomedical Engineering, Case University 2002-2005
4. Ph.D. thesis advisor, Roger Lin, MD-PhD student in Biomedical Engineering, Case University 2002-2006
5. Ph.D. thesis advisor, Jason Tokayer, PhD student in Electrical Engineering, University of Southern California 2009-2014
6. Ph.D. thesis advisor, Omkar Thaware 2019-present

### Post-doctoral Research Fellow Supervision

1. Ou Tan, PhD Cleveland Clinic, 2002-2004
2. Maolong Tang, PhD University of Southern California, 2004-2008
3. Yan Li, PhD, University of Southern California, 2008-2010
4. Yali Jia, PhD, Oregon Health & Science University, 2011-2012
5. Hafeez Dhalla, PhD, Duke University, 2012-2013
6. Chenxing Zhang, PhD, Oregon Health & Science University, 2012-2014
7. Xiaogang Wang, MD, Oregon Health & Science University, 2013-2014
8. Liang Liu, MD, Oregon Health & Science University, 2014-2015
9. Ahmed Hagag, MD, Oregon Health & Science University, 2014-2017
10. Johnny (Ping-Jung) Su, PhD, Oregon Health & Science University, 2014-2015
11. Simon S. Gao, PhD, Oregon Health & Science University, 2015-2016
12. Jianlong Yang, PhD, Oregon Health & Science University, 2016-2017
13. Acner Camino Benech, PhD, Oregon Health & Science University, 2017-2020
14. Shaohua Pi, PhD, Oregon Health & Science University, 2018-present
15. Qisheng You, MD, PhD, Oregon Health & Science University, 2018-present
16. Elias Pavlatos, PhD, Oregon Health & Science University, 2018-present
17. Clara Llorens Quintana, PhD, Oregon Health & Science University, 2019-present

### Pre-doctoral Research Fellow Supervision

1. Eric Wei, University of Southern California, 2009-2012
2. Matthew Bald, Oregon Health & Science University, 2011-2012
3. Sucheta Mohapatra, MS Oregon Health & Science University, 2013
4. Alex D. Pechauer, BS, Oregon Health & Science University, 2013-2015
5. Jeffrey Yu, BS, University of California at Irvine, 2019

### High School Student Research Supervision

1. Kevin Wang, Partnership for Scientific Inquiry student, Summer 2011
2. Raghav Tripathi, National Finalist, Intel Science Talent Search, Partnership for Scientific Inquiry (PSI) student, Summer 2011
3. Michael Z. Ling, Volunteer, Summer 2012
4. Ankit Gupta, Volunteer, Summer 2012
5. Brandon Orozco, Volunteer, Summer 2013
6. Yan Zhang, Volunteer, Summer 2013

## Specific administrative responsibilities (school or university committees, etc)

Medical Director of Doheny Laser Vision Center, University of Southern California, 2004-2010

Member, Residency Education Subcommittee, Doheny-USC Ophthalmology Faculty Planning Retreat, February 9-10, 2007

Natural Sciences, Math and Engineering Subcommittee of the USC University Committee on Curriculum for year 2007-2009

Dean’s Research Cabinet, USC Keck School of Medicine, 2009-2010

Director, Center for Ophthalmic Optics & Lasers, Oregon Health & Science University, 2010-present

Research Advisory Committee, Casey Eye Institute, Oregon Health & Science University, 2011

## Military Service

U.S. Army Reserve Infantry 1983-85. U.S. Army Reserve Medical Corp 1985-1996. Honorable discharge with rank of captain

## Community Service

None

## University Service

##  Steering Committee Member, OHSU Center for Spatial Systems Biomedicine, 2012

 MD/PhD Joint Training Program Member, OHSU School of Medicine, November 2014

Steering Committee Member, OHSU Center for Spatial Systems Biomedicine (OCSSB), January 2012

## Professional Service

### Editorial Board Membership

Member, Editorial Board, *Journal of Cataract & Refractive Surgery*, July 2002-2010

Member, Editorial Board, *Ophthalmic Surgery Lasers & Imaging: Retina,* January 2013

Member, Editorial Board, *Ophthalmic Surgery Lasers & Imaging,* May 2002- December 2012

Member, Editorial Board, *Taiwan Journal of Ophthalmology*, January-December 2011

Member, Overseas Editor, *Chinese Journal of Ophthalmologic Medicine*, December 2011.

Member, Editorial Board, *Atlas Ophthalmology* 2012-2014

Member, Editorial Board, *Eye and Vision*, April 2013-present

Member, Editorial Board, *Experimental Eye Research*, October 2013-2014

Guest Editor, *BioMed Research International Special Issue: Ocular Blood Flow and Visual Function*, 2015

Member, Editorial Board, *Investigative Ophthalmology & Visual Science*, 2015-2016

Member, Editorial Board, *Journal of Refractive Surgery*, 2016-present

Member, Editorial Board, *Journal of Eye Science*, 2016-2017

Member, Editorial Board, *Eye & Contact Lens (ECL)*, 2017-2018

Member, Editorial Advisory Board, *The Ophthalmologist*, 2017-present

### Journal Editorship

 Guest Editor, OCT Story, Special Issue, *Investigative Ophthalmology & Visual* Science, 2015-2016

### Journal Reviewer

*American Journal of Ophthalmology*

*Archives of Ophthalmology*

*British Journal of Ophthalmology*

*Cornea*

*Graefe’s Archive for Clinical and Experimental Ophthalmology*

*Investigative Ophthalmology & Visual Science*

*Journal of Refractive Surgery*

*Journal of Biomedical Optics*

*Ophthalmology*

*Optics Express*

*Optometry & Visual Science*

*Biomedical Optics Express*

*Optics Letters*

*Journal of Vision*

### Conferences

1. Session chair, *Wavefront Sensing and Adaptic Optics in Vision Correction*, Gordon Conference on Lasers in Medicine and Biology, July 14-19, 2002.
2. Moderator, *Advances in Anterior Segment Imaging Symposium*, Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL, April 30-May 4, 2006.
3. Co-chair, *Ocular Imaging Symposium*, Asia Association for Research in Vision & Ophthalmology Annual Meeting, March 2-5, 2007.
4. Co-moderator, *New Technologies for In Vivo Imaging in the Eye Symposium*, Association for Research in Vision & Ophthalmology Annual Meeting, Fort Lauderdale, FL, May 6-10, 2007.
5. Co-moderator, *Corneal Imaging Paper Session*, Association for Research in Vision & Ophthalmology Annual Meeting, Fort Lauderdale, FL, April 26-30, 2008.
6. Co-moderator, *Imaging I: Posterior Segment Paper Session*, Association for Research in Vision & Ophthalmology Annual Meeting, Fort Lauderdale, FL, April 26-30, 2008.
7. Co-chair, *Advanced Structural and Functional Imaging*, World Ophthalmology Congress, Hong Kong, June 28 – July 2, 2008.
8. Co-chair, *Corneal Imaging*, World Ophthalmology Congress, Hong Kong, June 28 – July 2, 2008.
9. Co-moderator, *Corneal Topography and Imaging*, Asia-ARVO Meeting on Research in Vision and Ophthalmology, Hyderabad, India, January 15-18, 2009.
10. Co-moderator, *Glaucoma I*, Association for Research in Vision & Ophthalmology Annual Meeting, Ft Lauderdale, FL, May 1-2, 2009.
11. Moderator, *Corneal Imaging*, Association for Research in Vision & Ophthalmology Annual Meeting, Ft Lauderdale, FL, May 2-6, 2010.
12. Moderator, *Corneal Imaging*. Association for Research in Vision & Ophthalmology Annual Meeting, Ft Lauderdale, FL. May 2012.
13. Moderator, *Multidisciplinary Opthalmic Imaging*. Association for Research in Vision & Ophthalmology Annual Meeting, Ft Lauderdale, FL. May 2012.
14. Co-organizer, Association for Ocular Circulation Meeting, Oregon Health & Science University, Portland, OR, July 14-15, 2012.
15. Moderator, *Glaucoma Imaging II*, Association for Research in Vision & Ophthalmology Annual Meeting, Seattle, WA, May 5-9, 2013.
16. Moderator, *Multidisciplinary Opthalmic Imaging: Functional Optical Imaging*. Association for Research in Vision & Ophthalmology Annual Meeting, Seattle, WA, May 5-9, 2013.
17. Moderator, *CNV Poster Session*. Association for Research in Vision & Ophthalmology Annual Meeting, Seattle, WA, May 5-9, 2013.
18. Moderator, *Basic/Clinical Lecture: Optical Biopsy of Ocular Tissues: Recent Advances & Future Directions*. Association for Research in Vision & Ophthalmology Annual Meeting, Seattle, WA, May 5-9, 2013.
19. Moderator, *AMD Imaging & Phenotyping Session*. Association for Research in Vision & Ophthalmology Annual Meeting, Orlando, FL, May 4-8, 2014.
20. Moderator, *New Discoveries using Ophthalmic Imaging and MOI Business Meeting.* Association for Research in Vision & Ophthalmology Annual Meeting, Orlando, FL, May 4-8, 2014.
21. Moderator, *Multidisciplinary Ophthalmic Imaging Group: Cellular-Scale Imaging – From In Vitro to In-Vivo*. Association for Research in Vision & Ophthalmology Annual Meeting, Orlando, FL, May 4-8, 2014.
22. Moderator & Speaker, *En face OCT Imaging of the Eye*. Special Interest Group. Association for Research in Vision & Ophthalmology Annual Meeting, Orlando, FL, May 4-8, 2014.
23. Co-Organizer, Symposium on *Ocular Circulation: Technologies & Applications*. Association for Research in Vision & Ophthalmology Annual Meeting, Orlando, FL, May 4-8, 2014.
24. Co-organizer, Association for Ocular Circulation Meeting, Chicago, IL, September 5-6, 2014.
25. Co-organizer, Association for Ocular Circulation Meeting, Beijing, China, March 20, 2015.
26. Co-Moderator and Invited Speaker, Association for Research in Vision & Ophthalmology Symposium. American Academy of Ophthalmology 2016. Chicago, IL October 15-18, 2016.
27. Organizer & Moderator. *New advancements in SD-OCT assessment of neuroretinal rim and fiber layer tissue for glaucoma detection and follow-up.* Special Interest Group. Association for Research in Vision & Ophthalmology Annual Meeting, Baltimore, MD. May 5-9, 2017.
28. Lead organizer, OCT Angiography Summit, Oregon Health & Science University. Portland, OR. July 22, 2017.
29. Senior Instructor. *OCT Angiography in retinal diseases.* American Academy of Ophthalmology. November 14, 2017.
30. Co-Chair. *Update in retinal imaging symposium*. World Ophthalmology Congress. Barcelona, Spain. June 16, 2018.
31. Co-Chair. *WOC day of landmark advancements III symposium*. World Ophthalmology Congress. Barcelona, Spain. June 17, 2018.
32. Co-Chair. *Vascular and Functional Imaging*. World Ophthalmology Congress. Barcelona, Spain. June 18, 2018.
33. Co-Chair. *Advances in Imaging and OCTA*. World Ophthalmology Congress. Barcelona, Spain. June 18, 2018.
34. Lead organizer, OCT Angiography Summit, Oregon Health & Science University. Portland, OR. August 4, 2018.
35. President, Inaugural Meeting of the International Ocular Circulation Society, Oregon Health & Science University. Portland, OR. August 10, 2019.
36. Co-organizer, Second Biennual Meeting of the International Ocular Circulation Society, Kyoto, Japan. September 24, 2021.

### National Institutes of Health Scientific Review Panel Membership

1. ZRG1 BDCN-F, Visual System, November 15-16, 2004
2. ZRG1 BDCN-F, Visual System, June 19-20, 2006
3. ZRG1 BDCN-F, Visual System, March 12, 2007
4. ZEY1 VSN04, Special Emphasis Panel, June 29, 2007
5. ZRG1 NT-B 01 Q, Neurotechnology, June 3, 2008
6. ZRG1 ETTN-R (92) M, Vision Enhancement and Technology, Scientific Review Special Emphasis Panel, February 17-18, 2009
7. ZRG1 ETTN-E (12) B, Visual Systems Small Business, Scientific Review Special Emphasis Panel, June 29-30, 2009
8. ZRG1 ETTN-E (95) S, Competitive Revisions Visual Systems Small Business, Scientific Review Special Emphasis Panel, June 30, 2009
9. ZRG1 ETTN-E (12) B, Visual Systems Small Business, Scientific Review Special Emphasis Panel, October 29-30, 2009
10. CNN, Clinical Neuroscience and Neurodegeneration Study Section, Ad hoc member, February 10-11, 2011
11. ZRG1 ETTN-E (12) B, Visual Systems Small Business, Scientific Review Special Emphasis Panel, February 28-March1, 2011
12. ZRG1 ETTN-E (92), Visual Systems Small Business, Scientific Review Special Emphasis Panel, June 24th, 2011
13. ETTN Vision Technology Study Section, Working Group, 2011
14. ZRG1 NT-L (09) F, Neurotechnology, Scientific Review Special Emphasis Panel, October 5-6, 2011
15. ZRG1 ETTN-L 60 C, Collaborative: R01s for Clinical Studies of Mental Disorders, Scientific Review Special Emphasis Panel, October 5-6, 2011
16. ZRG1 ETTN-L (30) I, Shared Instrumentation: Grant Program, Scientific Review Special Emphasis Panel, October 5-6, 2011
17. ETTN IRG, Neuroscience and Ophthalmic Imaging Technologies (NOIT), Ad hoc Member, 2013
18. ETTN IRG, Neuroscience and Ophthalmic Imaging Technologies (NOIT), Member, July 1, 2014-June 30, 2016
19. EDIC, Scientific Review Special Emphasis Panel, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Member, February 2017
20. DPVS, Diseases and Pathophysiology of the Visual System Study Section, Center for Scientific Review, Member, October 2017
21. ZRG1 ETTN-L (30) I, Shared Instrumentation: Grant Program, Scientific Review Special Emphasis Panel, October 5-6, 2011
22. ZRG1 ETTN-P (81) S, Vision Imaging, Bioengineering and Low Vision Technology Development (VIBT), February 3, 2020

**Other employment or activity**

Founder and Chief Innovation Officer, Gobiquity Mobile Health, Inc. ([www.gobiquity.com](http://www.gobiquity.com), operating as GoCheck [www.GoCheckKids.com](http://www.GoCheckKids.com), formerly iCheck Health Connection), 2014-present.  Gobiquity develops mobile diagnostic apps and devices for medical professionals.

President and Founder, iCheck Health Connection, Inc., Portland, OR, 2011-2013

Member, Advisory Board, Ophthalmology-Neuroprotection for Optic Neuritis, Allergan, Inc., 2012

Member, Medical Advisory Board, Stroma Corporation, 2010-2011

Consultant, ReVision Optics, Inc., 2008

Consultant, Vistakon, Inc., 2008

Scientific & Medical Advisory Boards, Optovue, Inc., 2006-2010

## Committee membership

### National/International

1. Member, Committee on Ophthalmic Procedures Assessment (COPA) Refractive Surgery Panel, American Academy of Ophthalmology, July-December, 2000
2. Member, Ophthalmic Technology Assessment Committee (OTAC) Refractive Surgery Panel, American Academy of Ophthalmology, January 1, 2000-2010
3. Founding Governing Board Member, International Society for Imaging in the Eye, 2002 - 2012
4. Member, Program Committee, Association for Research in Vision and Ophthalmology, 2004 – 2006
5. Co-Chair, Cornea Section of the Annual Meeting Program Committee, Association for Research in Vision and Ophthalmology, 2006-2007
6. Member, Specialty Corneal Allograft Council, Tissue Bank International Medical and Scientific Advisory Committee, October 2005 – 2015
7. Member, Governing Board, Overseas Chinese Association for Vision and Eye Research (OCAVER), June 2008 – April 2016
8. Member, World Glaucoma Association Global Consensus on Blood Flow Meeting Planning Committee, January-May, 2009
9. Member, Multimodality Ophthalmic Imaging (MOI) subcommittee of the Annual Meeting Program Committee, Association for Research in Vision and Ophthalmology, 2011-2013
10. Chair, Multimodality Ophthalmic Imaging (MOI) subcommittee, Association for Research in Vision and Ophthalmology, 2013-2014
11. Member, Medical Advisory Committee, Lions Vision Gift Eye Bank, 2013 – 2019
12. Member, Scientific Advisory Panel, Research to Prevent Blindness, 2016-2019
13. Founding Executive Board Member, International Retinal Imaging Society, 2017-2023
14. Member, Organizing Committee of the Association for Research in Vision and Ophthalmology Bench to Bedside Program 2019-2020

## Society Leadership

Founding President, International Ocular Circulation Society, 2019-2021

# Society Memberships

## National and International

American Academy of Ophthalmology

American Glaucoma Society, associate member

American Ophthalmological Society (fellow)

American Society of Cataract and Refractive Surgery

American Society of Retina Specialists

Association for Ocular Circulation (founding member)

Association for Research in Vision and Ophthalmology (silver fellow)

Chinese American Ophthalmological Society

International Society for Imaging in the Eye (founding board member)

International Society of Refractive Surgery

National Academy of Inventors (fellow)

Optical Society of America (senior member)

Society of Photo-optical Instrumentation Engineers (SPIE)

International Retinal Imaging Society (executive board)

International Ocular Circulation Society (founding president)

## State

Oregon Medical Association, 2010-present

Max Fine Cornea Association

## City

Los Angeles Society of Ophthalmology

# Consultantships:

Member, Data Safety Monitoring Board, “A Two-Phase Pilot/Pivotal Study to Evaluate the Efficacy and Safety of the Trans Corneal Glaucoma Shunt in Patients with Glaucoma,” study sponsored by Becton Dickenson, 2006-2010

Member, Scientific and Medical Advisory Board, Optovue, Inc., 2006-present

Consultant, Johnson & Johnson Vistakon, 2007-2008.

Consultant, ReVision Optics, Inc., 2008

Scientific advisor, Stroma Medical, Inc., 2011

# Research Activities

## Major Areas of Research Interest

Optical coherence tomography (OCT)

OCT angiography

Glaucoma

Diabetic retinopathy

Age-related macular degeneration

Laser refractive surgery

Intraocular lens power formula

Corneal topography

Corneal tomography

Corneal power measurement

Keratoconus

Corneal collagen crosslinking

Phototherapeutic keratectomy

Astigmatism

LASIK nomogram

Conjunctivochalasis

Scleral contact lens

Nanotechnology

Adaptive optics

Digital health

## Research in Progress

OCT and OCT angiography for glaucoma

Corneal and anterior segment OCT and OCT angiography

OCT and OCT angiography for retinal diseases

Corneal collagen crosslinking – optimizing oxygen delivery and laser shaping

Photothermal conjunctivoplasty for conjunctivochalasis

Nanoparticle contrast agent to label cells for OCT imaging

OCT based corneoscleral topography for scleral contact lens design

OCT-based intraocular lens power formula

## Active Research Grants (Principal Investigator) $ Direct cost over grant period

1. Functional and Structural Optical Coherence Tomography for Glaucoma

NIH/NEI R01EY023285 $1,490,824

09/30/2017 – 05/31/2021 Principal investigator (33%)

1. Applications of Ultrahigh-Speed Long-Range Wide-Field OCT in Anterior Eye Diseases

NIH/NEI R01 EY028755 $1,813,667

3/1/2008-7/28/2016 Principal Investigator (20%)

## Past Research Grants (Principal Investigator) $Direct cost over grant period

1. Functional and Structural Optical Coherence Tomography for Glaucoma

NIH/NEI R01EY023285 $2,995,904

09/01/2013 – 08/31/2017 Principal investigator (45%)

1. Advanced Imaging for Glaucoma (Huang)

NIH/NEI 2R01 EY013516 $6,914,713

9/1/2008-8/31/2013 Principal Investigator (38%)

1. Functional Optical Coherence Tomography Resource Center (Pilot Grant)

OCTRI $98,286

4/1/2013-3/31/14 Principal investigator (2%)

1. Guiding the Treatment of Anterior Eye Disease with Optical Coherence Tomography

NIH/NEI R01 EY018184 $3,169,923

3/1/2008-7/28/2016 Principal Investigator (20%)

1. Eye Bank Cornea Screening with Optical Coherence Tomography (Huang)

NIH/NEI R01 EY017723 $1,022,230

8/1/2006-7/31/2011 Principal Investigator (20%)

1. Optical Coherence Tomography-Guided Laser-Assisted Anterior Lamellar Keratoplasty (Huang)

Skilling Foundation $36,000

12/10/2009-12/9/2010 Principal Investigator

1. Advanced Imaging for Glaucoma (Huang)

NIH/NEI R01 EY013516 $5,874,596

9/30/2003-8/31/2008 Principal Investigator

1. Optical Coherence Domain Reflectometry in Brain Probes (Huang)

NIH/NIBIB R21 EB002718 $275,000

9/30/2003-8/31/2005 Principal Investigator

1. Partnership for Research in Optical Coherence Tomography (Izatt)

NIH/NEI R24 EY13015 $957,301

10/01/1999-09/30/2004 Site Principal Investigator

1. Modeling the Corneal Epithelial Smoothing Function After Laser Refractive Surgery (Huang)

Whitaker Foundation $224,610

09/01/2000-08/31/2003 Principal Investigator

## Current IRB Clinical Study Protocols (Principal Investigator)

IRB #6612: Applications of Ultrahigh-Speed Long-Range Wide-Field OCT in Anterior Eye Diseases

IRB #6747: INTACS Intracorneal ring segments – FDA Humanitarian Use Device

IRB #6820: Corneal and Anterior Segment Optical Coherence Tomography

IRB #8456: Pilot Studies for New Scan Protocols Using Ultrahigh-Speed OCT

IRB #16513: Casey Eye Reading Center for Eye Determinants in Cognition (EyeDOC) Study

IRB #17045: Using Optical Coherence Tomography and Non-Invasive Retinal Amyloid Imaging to Capture Retinal Changes Associated with Dementia

IRB #19193: Optical Coherence Tomography Angiography Glaucoma Diagnostic Algorithm Development

IRB #19480: Differentiating High Myopia from Glaucoma Using Functional and Structural Optical Coherence Tomography

IRB #20339: Optical Coherence Tomography Angiography (OCTA) Diagnostic Algorithm Improvement Based on Population-based OCTA Data Collected from Multiple Centers in Asia

## Past Clinical Trials

1. Principal investigator on NIH/NEI Guiding the Treatment of Anterior Eye Disease with Optical Coherence Tomography, 2011-2016.
2. Principal Investigator on NIH National Center for Advancing Translational Sciences/OCTRI Functional Optical Coherence Tomography Resource Center, 2013-2015.
3. Co-investigator on Alcon Summit Autonomous FDA Phase III Trial on “LASIK for hyperopia with and without astigmatism and mixed astigmatism” 1999-2000
4. Co-investigator on Alcon FDA Phase III Trial “CustomCornea LASIK Treatment Study,” Protocol# 7201-0026 and “CustomCornea Ocular Irregularities LASIK Study,” Protocol# 7201-0028, 2002-2003
5. Principal investigator on NIH “Partnership for Research in Optical Coherence Tomograph,” OCT for corneal, anterior segment, and retinal imaging, 1999-2004
6. Principal investigator on “Corneal and Anterior Segment Optical Coherence Tomography” sponsored by Carl Zeiss Meditec, Inc., 2005-2006
7. Principal investigator on NIH Advanced Imaging for Glaucoma multi-center clinical study coordinating center, 2008-2013.

BIBLIOGRAPHY

## PATENTS

1. Swanson EA, **Huang D**, Fujimoto JG, Puliafito CA, Lin CP, Schuman JS, inventors. Methods and apparatus for optical imaging with means for controlling the longitudinal range of the sample. US patent 5,321,501. June 14, 1994.

Swanson EA, **Huang D**, Fujimoto JG, Puliafito CA, Lin CP, Schuman JS, inventors. Method and apparatus for performing optical measurements. US patent 5,459,570. October 17, 1995.

Lee RC, **Huang D**, inventors. Method for producing oriented connective tissue cells in a ligament configuration. US patent 5,521,087. May 28, 1996.

Lee RC, **Huang D**, inventors. Method for producing oriented connective tissue cells. US patent 5,700,688. December 23, 1997.

Lee RC, **Huang D**, inventors. Method for producing oriented connective tissue. US patent 5,756,350. May 26, 1998.

**Huang D**, McDonnell PJ, inventors. Apparatus and method for performing laser thermal keratoplasty with minimized regression. US patent 6,033,396. March 7, 2000, expires November 6, 2016.

Wei J, **Huang D**, Peterson C, inventors. Optical coherence tomography with new interferometer. US patent 6,053,613. April 25, 2000.

**Huang D**, Kirschbaum AR, Wei J, inventors. Method and apparatus for diagnosing and monitoring eye disease. US patent 6,293,674. September 25, 2001.

**Huang D**, inventor. Apparatus and methods for performing laser thermal keratoplasty with minimized regression. US patent 6,520,956. February 18, 2003, expires November 6, 2016.

**Huang D**, Tan O, Li Y, inventors. Method and apparatus for measuring a retinal sublayer characteristic. US patent 7,347,548. March 25, 2008, expires May 2023.

**Huang D**, Tang M, inventors. Gaussian fitting on mean curvature maps for parameterization of corneal ectatic diseases. US patent 7,497,575 issued March 3, 2009.

Wei J, Jang B, **Huang D**, Zhao Y, inventors. Method of eye examination by optical coherence tomography. US patent 7,744,221 B2 issued June 29, 2010.

**Huang D**, Lu ATH, Tan O, inventors. Methods for diagnosing glaucoma utilizing combinations of FD-OCT measurements from three anatomic regions of the eye. US patent 7,905,599 B2. March 15, 2011.

**Huang D**, Sadda SR, Tan O, inventors. Mapping and diagnosis of macular edema by optical coherence tomography. US patent 7,997,728 B2. August 16, 2011.

**Huang D**, Wang Y, inventors. Methods and systems for blood flow measurement using Doppler optical coherence tomography. US patent 8,244,334 B2. Priority April 10, 2007; Filing April 10, 2008; Publication August 14, 2012.

**Huang D**, Tan O, inventors. Pattern analysis of retinal map for the diagnosis of optic nerve diseases by optical coherence tomography. US patent 8,474,978. Publication July 2, 2013.

**Ko TH, Zhao Y, Huang D**, inventors. Extended range imaging. US patent 8,605,287 B2. December 10, 2013.

Hee M, Wei J, **Huang D**, Zhou Q, Zhao Y, Jang B, Ko TH, inventors. Scanning and Processing using optical coherence tomography. US patent 8,770,753 B2. July 8, 2014.

1. **Huang D**, inventor. Video game to monitor retinal diseases. US patent 9,039,182 B2. May 26, 2015.
2. **Huang D**, Murphree AL, Ishikawa H, inventors. System and method for documenting and recording of the pupillary red reflex test and corneal light reflex screening of the eye in infants and young children. US patent 9,380,938. July 5, 2016.
3. **Huang D,** inventor**.** Circular preferential hyperacuity perimetry video game to monitor macular and retinal diseases. US Patent 9,433,346 B2. September 6, 2016.
4. **Huang D**, Li Y, Tan O, Tang M, inventors. Methods and systems to measure corneal epithelial thickness and power, stromal thickness, subepithelial corneal power and topography for disease diagnosis. US patent 9,655,512 B2. May 23, 2017.
5. **Huang D**, Jia Y, Tan O, Tokayer J, inventors. In vivo optical flow imaging. OHSU Tech 1715. US patent 9,883,810. February 6, 2018.
6. **Huang D,** Rose-Nussbaumer J, Li Y, Rosenbaum JT, inventors. Aqueous cell differentiation in anterior uveitis using optical coherence tomography. US patent 9,918,627. March 20, 2018.
7. **Huang D,** Tan O. Systems and methods of glaucoma diagnosis based on frequency analysis of inner retinal surface profile measured by optical coherence tomography. US Patent 9,918,630. March 20, 2018.
8. **Huang D**, Jia Y, Liu L, inventors. Systems and methods of choroidal neovascularization detection detection using optical coherence tomography angiography. OHSU Tech 2141.  US Patent 9,984,464.  May 29, 2018.
9. **Huang D,** Wang Y, Wilson DJ, Stout TJ, Fujimoto JG, Lu C. Method for building of forward scanning vitrectomy optical coherence tomography microbrobe. US Patent 10070784. September 11, 2018.
10. Jia Y,**Huang D**,Zhang M. Systems and methods for retinal layer segmentation in OCT imaging and OCT angiography. OHSU Tech 2161.  US patent 10,123,689. October 24, 2018
11. Huang D, Wang Y, Wilson D, Stout JT, Fujimoto J, Lu C. OCT vitrectomy probe. OHSU Tech 1757. US Patent 10,070,784. November, 9 2018.
12. **Huang D**, Jia Y, Zhong M, inventors. Systems and methods to remove shadowgraphic flow projections in OCT angiography. OHSU Tech 2154. US patent 10,231,619 B2. March 19, 2019.
13. Jia Y,**Huang D**,Zhang M. Automated quantification of nonperfusion in the retina using optical coherence tomography angiography. US Patent 10,426,331 B2.  October 1, 2019.
14. Jia Y,**Huang D**,Li Y, Camino A. Bulk motion subtraction in optical coherence tomography angiography. OHSU Tech 2447. US Patent 10,588,572.  March 17, 2020.
15. **Huang D**, Jia Y, Tokayer J, Tan O. Quantification of local circulation with OCT angiography. OHSU Tech 1783. US Patent 10,485,423, 2019. November 26, 2019.

## PENDING PATENTS

1. Liu G, **Huang D**, Jia Y, inventors. Phase gradient optical coherence tomography angiography. US patent application 15/141,626, filed 4/28/16.
2. Jia Y, **Huang D**, Gao SS, inventors. Systems and methods to compensate for reflectance variation in OCT angiography.  US patent application 62/331,316, filed 5/3/2016.

## PEER REVIEWED ARTICLES

1. **Huang D**, Wang J, Lin CP, Puliafito CA, Fujimoto JG. Micron-resolution ranging of cornea and anterior chamber by optical reflectometry. *Lasers Surg Med* 1991;11:419-425. doi:10.1002/lsm.1900110506.
2. **Huang D**, Swanson EA, Lin CP, Schuman JS, Stinson WG, Chang W, Hee MR, Flotte T, Gregory K., Puliafito CA, Fujimoto JG. Optical coherence tomography. *Science* 1991;254:1178-1781. doi:10.1126/science.1957169. PMCID: PMC4638169.
3. Gabetta G, **Huang D**, Jacobson J, Ramaswamy M, Ippen EP, Fujimoto JG. Femtosecond pulse generation in Ti:Al2O3 using a microdot mirror modelocker. *Opt Lett* 1991;16:1756-1758. doi:10.1364/ol.16.001756.
4. Swanson EA, **Huang D**, Hee MR, Fujimoto JG, Lin CP, Puliafito CA. High-speed optical coherence domain reflectometry. *Opt Lett* 1992;17;151-153. doi: 10.1364.OL.17.000151.
5. **Huang D**, Ulman M, Acioli LH, Haus HA, Fujimoto JG. Self-focusing induced saturable loss for laser modelocking. *Opt Lett* 1992;17:511-513. doi:10.1364/ol.17.000511.
6. Hee MR, **Huang D**, Swanson EA, Fujimoto JG. Polarization sensitive low coherence reflectometer for birefringence characterization and ranging. *J Optical Soc Am B: Optical Physics* 1992;9:903-908. doi: 10.1364/JOSAB.9.000903.
7. Weiss TF, Trevisan G, Doering EB, Shah DM, **Huang D**, Berkenblit SI. Software for teaching physiology and biophysics. *J Sci Educ Technol* 1992;1:4-23. doi:10,1007/BF00694407.
8. **Huang D**, Chang TR, Aggarwal A, Lee RC, Ehrlich HP. Mechanisms and dynamics of mechanical strengthening in ligament-equivalent fibroblast-populated collagen matrices. *Ann Biomed Eng* 1993;21:289-98. doi:10.1007/BF02368184.
9. Swanson EA, Izatt JA, Hee MR, **Huang D**, Lin CP, Schuman JS, Puliafito CA, Fujimoto JG. In vivo retinal imaging by optical coherence tomography. *Opt Lett* 1993;18:1864-1866. doi:10.1364/ol.18.001864.
10. Izatt JA, Hee MR, Swanson EA, Lin CP, **Huang D**, Schuman JS, Puliafito CA, Fujimoto JG. Micrometer-scale resolution imaging of the anterior eye in vivo with optical coherence tomography. *Arch Ophthalmol* 1994;112:1584-1589. doi:10.1001/archopht.1994.01090240090031.
11. Hee MR, Izatt JA, Swanson EA, **Huang D**, Schuman JS, Lin CP, Puliafito CA, Fujimoto JG. Optical coherence tomography of the human retina. *Arch Ophthalmol* 1995;113:325-332. doi:10.1001/archopht.1995.01100030081025.
12. **Huang D**, Stulting RD, Carr JD, Thompson KP, Waring GO III. Multiple regression and vector analyses of refractive outcomes of laser in situ keratomileusis for myopia and astigmatism. *J Refract Surg* 1999;15:538-549.
13. **Huang D**, Sur S, Seffo F, Meisler DM, Krueger RR. Surgically-induced astigmatism after laser in situ keratomeileusis for spherical myopia. *J Refract* *Surg* 2000;16:515-518.
14. Jeng BH, **Huang D**. Anterior chamber stability during bimanual irrigation/aspiration. Theoretical and experimental analysis. *J Cataract Refract Surg* 2001;27:1670-1678. doi:10.1016/s0886-3350(01)00860-4.
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16. Pineda-Fernandez A, Rueda L, **Huang D**, Nur J, Jaramillo J. Laser in situ keratomileusis for hyperopia and hyperopic astigmatism with the Nidek EC-5000 Excimer laser. *J Refract Surg* 2001;17:670-675. doi:10.3928/1081597X-20080201-02.
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20. Tekwani N, **Huang D**. Risk factors for intraoperative epithelial defect in laser in-situ keratomileusis. *Am J Ophthalmol* 2002;134:311-316. doi:10.1016/s0002-9394(02)01597-0.
21. **Huang D**, Tang M, Shekhar R. Mathematical model of corneal surface smoothing after laser refractive surgery. *Am J Ophthalmol* 2003;135(3):267-278. doi:10.1016/s0002-9394(02)01942-6.
22. Garcia ML, **Huang D**, Crowe S, Traboulsi EI. Relationship between the axis and degree of high astigmatism and obliquity of palpebral fissure. *JAAPOS* 2003;7:14-22. doi:10.1067/mpa.2003.S1091853103000557.
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## BOOK REVIEWS

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## EDITORIALS & LETTERS TO EDITORS

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## CONFERENCE PROCEEDINGS

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2. **Huang D**, Arif M. Spot size and quality of scanning laser correction of higher-order wavefront aberrations. *J Refract Surg*. 17:S588, Proceeding of the 2nd International Congress of Wavefront Sensing and Aberration-free Refractive Correction. Monterey CA. February 2001.
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4. Li Y, Shekhar R, **Huang D**. Segmentation of 830-and 1310 nm LASIK corneal optical coherence tomography images. *Proceedings of SPIE* Vol. 4684:167-178. Medical Imaging 2002. San Diego, CA. February 2002
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12. Grulkowski I, Liu JJ, Potsaid BM, Jayaraman V, Cable AE, **Huang D**, Duker JS, Fujimoto JG. 3-D ocular morphometry and biometry of accommodating eyes using full eye length imaging with SS-OCT. *Proceedings of SPIE*. SPIE’s International Biomedical Optics Symposium. San Francisco, CA. January 2013.
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15. Wei X, Camino A, Pi S, Guo Y, Jian Y, Huang D, Jia Y. A novel and effective scan pattern for velocimetric OCT angiography. *Proceedings of SPIE*. SPIE’s Biomedical Optics Symposium. San Francisco, CA. February 2019.
16. Camino A, Zang P, Ng R, Huang J, Jia Y, **Huang D**, Jian Y. Sensorless adaptive-optics optical coherence tomographic angiography of the retinal plexuses. SPIE Photonics West, San Francisco, CA, 2020
17. Camino A, Ng R, Huang J, Jia Y, **Huang D**, Jian Y. Optimization of wavefront aberration compensation in real-time sensorless adaptive-optics optical coherence tomography angiography. SPIE Photonics West, San Francisco, CA, 2020

## INVITED LECTURES

1. Case Western Reserve University School of Medicine. Cleveland, OH. Optical coherence tomography, applications in ophthalmology. February 1999.
2. Beckman Laser Institute. University of California Irvine. Irvine, CA. Application of optical coherence tomography to refractive surgery. March 1999.
3. Department of Allergy and Immunology. Cleveland Clinic Foundation. Cleveland, OH. Ocular Allergy. April 1999.
4. Center for Visual Science. University of Rochester. Rochester, NY. Optical coherence tomography, applications in ophthalmology. July 1999.
5. International Congress of Eye Research*.* Corneal anatomy by optical coherence tomography. Santa Fe, NM. October 15-20, 2000.
6. International Society ofRefractive Surgery World Refractive Surgery Symposium. Practical nomogram development: how to get started. Dallas, TX. October 19-20, 2000.
7. Congreso Internacional de CEOVAL LASIK nomogram development. Are current excimer lasers adequate for the correction of wavefront aberrations? and Applications of optical coherence tomography in refractive surgery. Isla de Margarita, Venezuela. May 17-19, 2000.
8. XIII. Congress of the European Society of Ophthalmology. OCT in refractive surgery. Istanbul, Turkey. June 3-7, 2001.
9. Pacific Coast Oto-Ophthalmological Society Annual Meeting. Optical coherence tomography: applications in refractive surgery. Maui, HI. June 23-27, 2001.
10. 1ST International LASEK Congress. Nomogram adjustment after LASEK. Houston, TX. March 23-23, 2002.
11. Advances in Cataract, Cornea and Keratorefractive Surgery Annual Symposium. Optical coherence tomography. Refractive implants. Advances in laser vision correction. Cleveland, OH. May 3-4, 2002.
12. XXIXth International congress of Ophthalmology. Evaluation of corneal anatomic changes after LASIK by optical coherence tomography. Sydney, Australia. April 21-25, 2002.
13. 2nd Global Chinese Ophthalmic Conference. Anterior segment optical coherence tomography. Taipei, Taiwan. June 15, 2002.
14. 2002 ISRS Fall Refractive &Cataract Symposium. Prevention and management of epithelial defects. Orlando, FL. October 18-19, 2002.
15. American Academy ofOphthalmology Annual Meeting. Prevention and management of flap-related complications. Orlando, FL. October 20-23, 2002.
16. 2nd International Congress on LASEK. Ectasia and biomechanical instability. Cleveland, OH. May 30-31, 2003.
17. American Academy of Ophthalmology Annual Meeting Refractive Surgery Interest Group Subspecialty Day. Optical coherence tomography. Anaheim, CA. November 14-15, 2003.
18. American Academy of Ophthalmology Annual Meeting Discussant for M Knorz, Online optical coherence pachymetry during LASIK. Anaheim, CA. November 14-15, 2003.
19. American Academy of Ophthalmology Annual Meeting. Cornea: technological advances in cornea and anterior segment imaging. New Orleans, LA. October 23-26, 2004.
20. Cornea & Refractive Surgery Update. Diagnostic technologies in refractive surgery. Doheny Eye Institute, Los Angeles, CA. October 9, 2004.
21. Advances in Optic Nerve Imaging in Glaucoma. Newer strategies and advances in optical coherence tomography. Doheny Eye Institute, Los Angeles, CA. December 11, 2004.
22. Refractive Surgery Center Update. CustomVue for hyperopia. Doheny Eye Institute, Los Angeles, CA. February 15, 2005.
23. Kaiser Permanente Ophthalmology Symposium on Anterior Segment Disease. Refractive surgery techniques for the treatment of corneal diseases. Anaheim, CA. May 14, 2005.
24. Kaiser Permanente Ophthalmology Symposium on Anterior Segment Disease. Corneal imaging and measurement technologies. Anaheim, CA. May 14, 2005.
25. Annual Doheny Days Meeting. Optical coherence tomography for corneal and refractive surgeries. Doheny Eye Institute, Los Angeles, CA. June 17-18, 2005.
26. Refractive Implants. Optical coherence tomography in refractive surgery. Doheny Eye Institute, Los Angeles, CA. October 8, 2005.
27. Advancements in Optics for Biotechnology, Medicine and Surgery. Optical coherence tomography applications in the eye. Copper Mountain, CO. July 24-28, 2005.
28. Anterior Segment Imaging: New Advances in OCT Technology. CME Symposium sponsored by SLACK, Inc. Understanding the principles of optical imaging of the anterior segment. Chicago, IL. October 16, 2005.
29. Optical Coherence Tomography Symposium: Advanced Capabilities for Clinical Practice and Basic Research. Clinical applications of OCT in the eye: anterior segment. Massachusetts General Hospital, Boston, MA. November 7, 2005.
30. Clinical Applications of Optical Coherence Tomography (OCT). OCT applications in the anterior segment. University of Pittsburgh Medical Center, Pittsburgh, PA. December 10, 2005.
31. Cornea Day sponsored by Cornea Society and American Society of Cataract and Refractive Surgery. Anterior segment OCT. San Francisco, CA. March 17, 2006.
32. Dry Eyes. Dry eye and laser vision correction. Doheny Eye Institute, Los Angeles, CA. May 13, 2006.
33. Annual Doheny Days Meeting. An optical coherence tomography-based intraocular lens formula. Doheny Eye Institute, Los Angeles, CA. June 16-17, 2006.
34. Cataracts and IOL’s. Intraocular lens power calculation based on optical coherence tomography. Doheny Eye Institute, Los Angeles, CA. October 14, 2006.
35. **Visiting professor** lecture at University of California at San Francisco School of Medicine Department of Ophthalmology. Anterior segment OCT, San Francisco, CA. January 18, 2007.
36. **Visiting professor** lecture at National Taiwan University Department of Ophthalmology. Optical coherence tomography in corneal and refractive surgery. and Diagnosis of narrow angle glaucoma with optical coherence tomography. February 27, 2007.
37. Retina Club of Taiwan. Fourier-domain optical coherence tomography for retinal diseases and glaucoma. February 25, 2007
38. Ocular Imaging Symposium. Ultrahigh-speed Fourier-domain optical coherence tomography for glaucoma and retinal diseases. Asia ARVO (Association for Research in Vision & Ophthalmology) Meeting, Singapore. March 2-5, 2007.
39. Refractive Surgery Symposium, An optical coherence tomography-based intraocular lens power formula. Asia ARVO (Association for Research in Vision & Ophthalmology) Meeting, Singapore. March 2-5, 2007.
40. Optical Coherence Tomography of the Anterior Segment of the Eye. Fifth Annual USC Vision Symposium. University of Southern California. April 17, 2007.
41. **Visiting professor** lecture at University of California at San Diego Department of Biomedical Engineering. The speed revolution in optical coherence tomography of the eye. San Diego, CA. April 27, 2007.
42. Annual Doheny Day Conference. Anterior segment imaging with Fourier-domain OCT. Doheny Eye Institute. June 2007.
43. Utah Ophthalmology Society Summer Meeting. Corneal and anterior segment optical coherence tomography, and Glaucoma diagnosis with optical coherence tomography, Deer Valley, Utah. August 3, 2007.
44. Japan Congress of Clinical Ophthalmology. Fourier-domain optical coherence tomography in glaucoma diagnosis. and Corneal imaging with optical coherence tomography. Kyoto International Conference Hall, Kyoto, Japan. October 11-14, 2007.
45. Cornea 2007: Contemporary and Future Issues, Anterior segment and corneal imaging: optical coherence tomography, American Academy of Ophthalmology Annual Meeting, New Orleans, LA. November 10-13, 2007.
46. Important Current Issues for Refractive Surgeon Symposium. Debate point: ectasia after laser refractive surgery is a preventable condition-the risk factors are known and proper preoperative and operative measurements will decrease their incidence, American Academy of Ophthalmology Annual Meeting, New Orleans, LA. November 10-13, 2007.
47. **Visiting professor** lecture at Henan Eye Institute, Corneal & anterior segment imaging with Fourier-domain optical coherence tomography. Zhengzhou, Henan, China. June 18, 2008.
48. Advanced Structural and Functional Imaging, Structural and functional imaging with Fourier-domain optical coherence tomography. World Ophthalmology Congress, Hongkong. June 28-July 3, 2008.
49. Corneal Imaging, Corneal & anterior segment imaging with Fourier-domain optical coherence tomography. World Ophthalmology Congress, Hongkong. June 28-July 3, 2008.
50. Zhongshan Ophthalmic Center. A brief history of optical coherence tomography, Corneal & anterior segment imaging with Fourier-domain optical coherence tomography, and Structural & functional imaging with Fourier-domain optical coherence tomography for glaucoma diagnosis. Guangzhou, Guangdong, China. July 4, 2008.
51. Symposium on Innovations in Ophthalmic Technology, Fourier-domain optical coherence tomography applications, National Taiwan University, Taipei, Taiwan. July 6, 2008.
52. Latvian American Eye Center, History and comparison of optical coherence tomography technologies, Corneal and anterior segment optical coherence tomography, Structural and functional optical coherence tomography for glaucoma diagnosis. Riga, Latvia. September 23-27, 2008.
53. Delhi Society of Ophthalmology meeting. Progress in Fourier-domain optical coherence tomography of the eye. All India Institute of Medical Sciences, New Delhi, India. January 9, 2009.
54. Asia-ARVO International Meeting on Research in Vision and Ophthalmology, Corneal & anterior segment imaging with Fourier-domain optical coherence tomography, Hyderabad, India. January 15-18, 2009.
55. Asia-ARVO International Meeting on Research in Vision and Ophthalmology, Structural & functional imaging with Fourier-domain optical coherence tomography, Hyderabad, India. January 15-18, 2009.
56. Association for Ocular Circulation founding meeting, Doppler optical coherence tomography, Boston, MA. March 12-13, 2009.
57. **Ulrich Ollendorff Memorial Lecture**, Optical coherence tomography: historical perspective and future trends. Harkness Eye Institute, Columbia University, New York City, NY. April 2, 2009.
58. **Bausch & Lomb Visiting Professorship**, History and future of optical coherence tomography, Structure and functional imaging with optical coherence tomography. University of Rochester, NY. April 24-25, 2009.
59. Congreso Argentino de Oftalmologia, Corneal and anterior segment optical coherence tomography, Structural and functional optical coherence tomography for glaucoma diagnosis, Optical coherence tomography: historical perspective and future trends. Buenos Aires, Argentina. May 21-23, 2009.
60. National Eye Institute 40th Anniversary Symposia Series: Advances in Optical Imaging and Biomedical Science, Structure and functional imaging with optical coherence tomography. National Institutes of Health, Rockville, MD. June 1-2, 2009.
61. Structural and functional imaging with optical coherence tomography, Casey Eye Institute, Oregon Health Science University, Portland, OR. August 7, 2009.
62. Structural and functional imaging with optical coherence tomography, Wilmer Eye Institute, Johns Hopkins University, Baltimore, MD. September 18, 2009.
63. Iner-Institute Workshop on Optical Diagnostic and Biophotonic Methods from Bench to Bedside, Structural and functional optical coherence tomography in glaucoma diagnosis. National Institutes of Health, Bethesda, MD. October 1-2, 2009.
64. Ocular Imaging Joint Session, Anterior segment imaging: surgical guidance, Joint Meeting of the American Academy of Ophthalmology and the Pan-American Association of Ophthalmology, San Francisco. October 24-27, 2009
65. Structural and functional optical coherence tomography for glaucoma diagnosis, 13th Annual Yale Glaucoma Symposium, New York, NY. November 6, 2009
66. Controversies in Ophthalmology, Guiding anterior segment procedures with optical coherence tomography, 78th Midwinter Conference of the Research Study Club, Los Angeles, CA. January 16, 2010
67. Optical coherence tomography: historical perspective and future trends, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
68. Glaucoma diagnosis with optical coherence tomography, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
69. Doppler optical coherence tomography of retinal blood flow in glaucoma and retinal diseases, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
70. Detecting and tracking glaucoma with optical coherence tomography workshop, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
71. Corneal power measurement and IOL calculation with optical coherence tomography, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
72. Screening of keratoconus with optical coherence tomography, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
73. Planning corneal laser procedures with optical coherence tomography workshop, Saudi Ophthalmology 2010 Meeting, Riyadh, Saudi Arabia. February 28-March 3, 2010
74. Imaging Solutions to Anterior and Posterior Segment Conundrums, 65th Annual OOAA Meeting, Casey Eye Institute, Portland, OR. May 14, 2010.
75. Guiding Corneal Procedures with OCT , Clinical Applications of Optical Coherence Tomography (OCT) Course, Pittsburgh, PA. July 24, 2010.
76. Doppler OCT for Measurement of Retinal Blood Flow , Clinical Applications of Optical Coherence Tomography (OCT) Course, Pittsburgh, PA. July 24, 2010.
77. Measurement of Retinol Circulation with Doppler Optical Coherence Tomography , **Coscas Medal Lectures**, *Corso Intensivo di OCT,* Rome, Italy. September 17, 2010
78. Anterior Segment Optical Coherence Tomography , **Coscas Medal Lectures**, *Corso Intensivo di OCT,* Rome, Italy. September 17, 2010.
79. New Developments in Optical Coherence Tomography for Ophthalmology , Hot Topics Session, SPIE Photonics West, San Francisco, CA. January 22-26, 2011.
80. Anterior Segment Imaging-Clinical Utility and Comparison of Technologies , CORNEA Day, American Society ofCataract and Refractive Surgery Annual Meeting, San Diego, CA. March 25, 2011.
81. Anterior Segment Optical Coherence Tomography , **Richard L. Lindstrom Lecture**, Contact Lens Association of Ophthalmologists/American Society of Cataract and Refractive Surgery Annual Meeting, San Diego, CA. March 28, 2011.
82. Big Trends in the History of OCT – Inventor’s Perspective , Ophthalmic Photographers’ Society Meeting, American Academy of Ophthalmology Annual Meeting, Orlando, FL. October 21-24, 2011.
83. Imaging of Retinal Blood Flow with Optical Coherence Tomography, American Society of Retina Specialists Symposium - Imaging of Macular and Retinal Diseases, American Academy of Ophthalmology Annual Meeting, Orlando, FL. October 21-24, 2011.
84. New Targets for SD-OCT RNFLT Imaging in Glaucoma, American Glaucoma Society Annual Meeting, New York, NY. March 1-4, 2012.
85. Relationship amoung Visual Field, Blood Flow, and Neural Structure Measurements in Glaucoma , American Glaucoma Society Annual Meeting, New York, NY. March 1-4, 2012.
86. Seeing Structure and Function with Optical Coherence Tomography, MedTech Frontiers Seminar, Triple Ring Technologies, Newark, CA. April 5, 2012.
87. Keratoconus Detection by OCT Corneal Epithelial Thickness Mapping ASCRS 2012, Chicago, IL. April 2012.
88. Corneal Power and IOL Power Calculation with OCT Taiwan Acad Oph, Taipei, Taiwan. April 2012.
89. Keratoconus Diagnosis with OCT Taiwan Acad Oph, Taipei, Taiwan. April 2012.
90. Tracking Improves RTVue FD-OCT Image Quality. Taiwan Acad Oph, Taipei, Taiwan. April 2012.
91. Clinical Applications of Corneal OCT. 2012 Frontiers in Optics/Laser Science Meeting. Rochester, NY. October 2012.
92. Glaucoma Diagnosis with OCT. Taiwan Acad Oph, Taipei, Taiwan. April 2012.
93. Measurement of Blood Flow in the Retina and Optic Disc with OCT Taiwan Acad Oph, Taipei, Taiwan. March 2012.
94. Anterior Segment Imaging: Surgical Guidance. ARVO Symposium: Clinical Applications of Ocular Imaging. American Academy of Ophthalmology Meeting. Chicago, IL. November 2012.
95. Intraocular Lens Power Calculation after Refractive Surgery. Contact Lens Association of Ophthalmologists Symposium. American Academy of Ophthalmology Meeting. Chicago, IL. November 2012.
96. *En Face* OCT Angiography. *En Face* OCT Club Meeting. American Academy of Ophthalmology Meeting. Chicago, IL. November 2012.
97. Evaluating the Risk of Glaucoma Progression with OCT. Hawaiian Eye, Hawaii. January 2013.
98. OCT Angiography of ONH Blood Flow in Glaucoma.  Hawaiian Eye, Hawaii. January 2013.
99. Measurement of ONH Blood Flow in Glaucoma by OCT Angiography.  American Glaucoma Society Annual Meeting. San Francisco, CA. February 2013.
100. Advances in Three-Dimensional Imaging of the Cornea.  14th International Congress on Wavefront and Presbyopia Refractive Correction. Hollywood, FL. February 2013.
101. Forme Fruste Keratoconus Detection by OCT Corneal Epithelial Thickness Mapping. ASCRS, San Francisco, CA. April 2013.
102. OCT-based ONH and Retinal Blood Flor for Glaucoma Diagnosis. Association for Research in Vision & Ophthalmology Annual Meeting. Seattle, WA. May 2013.
103. *En face* OCT angriography of the optic disc and macula. Association for Research in Vision & Ophthalmology Annual Meeting. Seattle, WA. May 2013.
104. Functional and Structural Optical Coherence Tomography. **Friedenwald Award** and Lecture. Association for Research in Vision & Ophthalmology Annual Meeting. Seattle, WA. May 2013.
105. Optical Coherence Tomography Guided Eye Surgery. CLEO 2013. San Jose, CA. June 2013.
106. The Role of OCT in Imaging Glaucoma. Center for Biomedical OCT Research and Translation (CBORT). Boston, MA. July 2013.
107. Intraocular Lens Power Calculation after Refractive Surgery. Pan-American Congress of Ophthalmology. Rio de Janeiro, Brazil. August 2013.
108. *Forme Fruste* Keratoconus Detection by OCT Corneal Epithelial Thickness Mapping. Pan-American Congress of Ophthalmology. Rio de Janeiro, Brazil. August 2013.
109. Future Perspectives: *En Face* OCT Angiography of the Optic Disc and Macula. Pan-American Congress of Ophthalmology. Rio de Janeiro, Brazil. August 2013.
110. Angle Evaluation Utilizing Anterior Segment OCT. Pan-American Congress of Ophthalmology. Rio de Janeiro, Brazil. August 2013.
111. OCT Angiography. Pan-American Congress of Ophthalmology. Rio de Janeiro, Brazil. August 2013.
112. Functional and Structural Optical Coherence Tomography for Glaucoma. 24th Annual Scientific Meeting of the Japan Glaucoma Society. Tokyo, Japan. September 2013.
113. Guiding the Treatment of Anterior Eye Diseases with Optical Coherence Tomography. 28th Biennial Cornea Conference, Boston, MA. October 2013.
114. Cleveland Ophthalmological Society Meeting, Cleveland, OH. December 2013
115. Structural & Functional OCT. Keynote Speaker. 26th Annual Ophthalmology Update, Department of Ophthalmology, Washington University. St. Louis, MO. March 2014.
116. Functional OCT for Glaucoma. International Society for Eye Research (ISER). San Francisco, CA. July 2014.
117. OCT Angiography of Disc & Macula. *En face* OCT imaging of the eye-SIG. ARVO. Orlando, FL. May 2014.
118. OCT Angiography. Dr. **Joseph E. Koplowitz Memorial Lecture**. Wilmer Eye Institute, Johns Hopkins Medicine. Baltimore, MD. October 2014.
119. Functional OCT. Wilmer Science Seminar Series. Wilmer Eye Institute, Johns Hopkins Medicine. Baltimore, MD. October 2014.
120. The History & Future of OCT; An Inventor’s Perspective. **Bryce Young Ophthalmology Lecture**, Resident’s Research Day Keynote Speaker. Loma Linda Unviersity Eye Institute. Loma Linda, CA. May 2015.
121. The History & Future of OCT from an Inventor’s Perspective. 2015 **Professor** **Samuel B. Johnson Memorial Lecture** Series. University of Mississippi Medical Center. Jackson, MS. 2015.
122. Principles of OCT-a New Angio Analytic Software. Asia-Pacific Academy of Opthalmology Congress. Taipei, Taiwan. March 2016.
123. OCT Angiography. Aier Eye Hospital. Changsha, Hunan, China. March 2016.
124. OCT Angiography in Glaucoma with *AngioAnalytics*. The 120th Annual Meeting of the Japanese Ophthalmological Society. Sendai, Japan. April 2016.
125. OCT Angiography. International Ophthalmology Forum. Jinan, China. April 2016.
126. China Ocular Microcirculation Society. April 2016.
127. Optical Coherence Tomography Angiography. Shiley Institute **Distinguished Visiting Professor** Grand Rounds Lecture. University of California-San Diego. San Diego, CA. January 2017.
128. New advancements in SD-OCT assessment of neuroretinal rim and fiber layer tissue for glaucoma detection and follow-up. Special Interest Group. *Association for Research in Vision & Ophthalmology Annual Meeting*, Baltimore, MD. May 5-9, 2017.
129. OCT angiography: yesterday, today, tomorrow. Moscow Opthalmology Symposium, Moscow, Russia. June 23, 2017.
130. *OCT-A in glaucoma and retinal diseases*. Special Interest Group. American Academy of Optometry. Washington, DC. October 6, 2017.
131. *Current and emerging imaging tools for macular and retinal diseases symposium.* American Society of Retina Specialists/American Academy of Ophthalmology. November 12, 2017.
132. OCT angiography. Inaugural **James & Betty Key Lecture**. 33rd Annual Cullen Course – Clinical Advances in Ophthalmology. Baylor College of Medicine, Houston, TX. February 23, 2018.
133. OCT: What’s next? **Distinguished Borish Scholar Award**. Indiana University, Bloomington, IN. March 2, 2018.
134. Optical coherence tomography and ophthalmic surgery: new visualizations, functional analysis and enabling robotic assistance. *Association for Research in Vision & Ophthalmology Annual Meeting*, Honolulu, HI. May 2, 2018.
135. Detecting and monitoring CNV with OCT angiography. *World Ophthalmology Congress*. Barcelona, Spain. June 16, 2018.
136. Landmark achievements in new imaging modalities 2016-2018. *World Ophthalmology Congress*. Barcelona, Spain. June 17, 2018.
137. OCT angiography in glaucoma. *World Ophthalmology Congress*. Barcelona, Spain. June 18, 2018.
138. Bulk motion subtraction from OCTA. *World Ophthalmology Congress*. Barcelona, Spain. June 19, 2018.
139. Optical coherence tomography: imaging structure and function. *Benning Society Lecture.* University of Utah, Salt Lake City, UT. October 23, 2018.
140. What is the role of OCT angiography in assessing glaucoma? *American Academy of Ophthalmology*. Chicago, IL. October 27, 2018.
141. Dastgheib Pioneer Award in Ocular Innovation Lecturer. The **Dastgheib Pioneer Award** in Ocular Innovation Lecturer is awarded annually to someone who has made a major contribution in the field of Ophthalmology focused on something that has proved useful in real life. Duke University. Durham, NC. November 2017.
142. Distinguished Borish Scholar Award. Scholars are selected based on their history of providing major research and scholarly contributions related to vision, patient care, clinical research, and scientific education. Indiana University, Bloomington, IN. March 2018.
143. Advances in OCT from the cornea to the optic nerve*. Claes H. Dohlman Visiting Professor Lecture*. Harvard Medical School, Cambridge, MA. February 1, 2019.
144. Can OCT replace visual field? Keynote lecture. Mentoring for the Advancement of Physician Scientists (MAPS). *American Glaucoma Society Annual Meeting*. San Francisco, CA. March 16, 2019.
145. OCT Angiography: facts & artifacts. *Wellman Center Research Seminar Lecture*. Massachusetts General Hospital. Boston, MA. June 4, 2019.
146. A deep learning algorithm for distinguishing capillary nonperfusion from signal reduction artifacts on OCT angiography. *Asia Pacific Retina Imaging Society annual meeting*, Seoul, Korea. July 5, 2019.
147. Detection of clinically unsuspected retinal neovascularization with OCTA. *Asia Pacific Retina Imaging Society annual meeting*, Seoul, Korea. July 5, 2019.
148. Detection and monitoring of non-exudative choroidal neovascularization with OCTA. *Asia Pacific Retina Imaging Society annual meeting*, Seoul, Korea. July 5, 2019
149. Anterior Segment OCT: What’s Next?. *AAO Cornea Society Symposium* San Fransisco, CA. October 13, 2019.
150. OCT angiography: where are we now and tomorrow? *Advanced Retinal Therapy*, Vienna, Austria. 23 November 2019.
151. Imaging microvascular network without labeling: State of the Art & Future Trends. *BME Seminar Series*, Northwestern University, Evanston, IL. January 16, 2020.
152. OCT Angiography: State of Art & Future Trends. *Ophthalmology Grand Round*. Northwestern University Feinberg School of Medicine, Chicago, IL. January 17, 2020.
153. OCT Angiogrpahy*. Irvine 2020 Retinal Imaging Colloquium*, UCI School of Medicine, Irvine, CA. February 7, 2020.
154. The past and future of OCT. **W. Morton Grant Lecture**. Tufts New England Eye Center. Boston, Massachusetts, USA. June 26, 2020.

## VIDEOS

1. Tan O, Wang Y, Konduru R, Zhang X, Sadda SR, **Huang D**. Doppler optical coherence tomography of retinal circulation. *J Visualized Exp* <http://www.jove.com/video/3524/> 2012.
2. Huang D. The history and future of OCT from an inventor’s perspective. Oregon Health & Science University. <https://www.youtube.com/watch?v=Zvve66s> September 18, 2012.
3. Huang D. The story of OCT-A preview. The Association for Research in Vision and Ophthalmology. <https://www.youtube.com/watch?v=9AWxRZRwW2g> May 25, 2016.
4. Huang D. History of OCT angiography. Ophthalmology Innovation Summit. <https://www.youtube.com/watch?v=BwyVCVYT48A> September 15, 2016.
5. Huang D. Russ Prize Award Lecture. Ohio University. <https://www.youtube.com/watch?v=ketOOrpMtQs> March 29, 2018.
6. Huang D. Russ Prize Award Video. Ohio University. <https://vimeo.com/swaythecrowd/review/308616472/6c34422b72> January 2019.
7. Huang D. Future Vision Foundation Award video. <https://vimeo.com/367063043> November 2019.