

CURRICULUM VITAE

Prepared 5/2020

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Place of Birth: Minneapolis, MN

Education:

Sept 1980- June 1984 BS. University of Minnesota, Twin City Campus
Minneapolis, MN

July 1984- May 1985 Non-degree Univeristi Sains Malaysia, Penang, Malaysia
Recipient of the International Reciprocal
Student Exchange Scholarship

Sept 1985- June 1990 MD. University of Minnesota, School of Medicine
Minneapolis, MN

Postdoctoral Training:

Sept 1989-May 1990 Research Fellow, Howard Hughes Medical Institute-NIH Research
Scholars' Program, National Eye Institute, National Institutes of
Health, Bethesda, MD

June 1990- June 1991 PGY-1 Transitional Program
Hennepin County Medical Center
701 Park Ave S, Minneapolis, MN 55415

July 1991-July 1994 Resident Ophthalmology Residency Program
The Massachusetts Eye & Ear Infirmary/
Harvard Medical School, Boston, MA

July, 1994- June 1995 Chief Resident Ocular Trauma Service
The Massachusetts Eye & Ear Infirmary/
Harvard Medical School, Boston, MA

July 1995-July 1996 Clinical Fellow Cornea/External Disease
The Massachusetts Eye & Ear Infirmary/
Harvard Medical School, Boston, MA

Faculty Academic Appointments

1994-99 Instructor in Ophthalmology, Harvard Medical School
1999-12 Assistant Professor, Ophthalmology, Harvard Medical School

2002-06	Scholar, The Academy at Harvard Medical School
2010-17	Adjunct Clinical Faculty Member, New England College of Optometry
2012-19	Associate Professor, Ophthalmology, Harvard Medical School

Appointments at Hospital/Affiliated Institutions

Past

1994-96	Assistant in Ophthalmology, Assistant Staff, MEEI/HMS
1996-98	Assistant Surgeon, Associate Staff, MEEI/HMS
1996-98	Active Staff, Emerson Hospital, Concord, MA
1998-00	Courtesy Staff, Emerson Hospital, Concord, MA
1998-07, 09	Associate Surgeon, Active Staff, BWH/HMS
1998-01	Assistant Surgeon, Active Staff, MEEI/HMS
2001-07	Associate Surgeon, Active Staff, MEEI/HMS
2006-07	Courtesy Staff, Surgery Service, BIDMC
2006-08	Active Staff, Surgery Service, Division of Ophthalmology, BMC

Current

2007-19	Surgeon, Active Staff, MEEI/HMS
2010-19	Clinical Associate, Ophthalmology Service, MGH/HMS
2010-19	Associate Surgeon, Active Staff, BWH/HMS
2010-10	New England College of Optometry, Adjunct Clinical Faculty Member

Other Professional Positions

1994	Visiting Surgeon, Aravind Eye Hospital, Maduri, India
1998	Visiting Faculty, ORBIS International, Jinan, China
2000	Visiting Faculty, ORBIS International, Tashkent, Uzbekistan
2001	Visiting Faculty, ORBIS International, Camaguey, Cuba
2004	Visiting Faculty, ORBIS International, Hyderabad, India
2005	Visiting Faculty, ORBIS International, Addis Ababa, Ethiopia
2007	Visiting Faculty, ORBIS International, Mumbai, India
2008	Visiting Faculty, ORBIS International, Mandalay, Myanmar
2009	Visiting Faculty, ORBIS International, Santo Domingo, DR
2010	Visiting Faculty, ORBIS International, Surabaya, Indonesia
2011	Visiting Faculty, ORBIS International, Ulaan Baatar, Mongolia
2013	Visiting Faculty, ORBIS International, Kolkata, India
2017	Visiting Faculty, ORBIS International, Chittagong, Bangladesh
2019	Visiting Faculty, ORBIS International, Accra, Ghana
2004-08	Speakers Bureau, Angiotech (Sharpoint)
2002-10	Speakers Bureau, Allergan
2004-10	Speakers Bureau, Alcon
2008-11	Consultant, Refractive Leadership Council, Alcon
2010-18	Board of Directors, Visionaries International, Treasurer
2011-16	Consultant, Chinese Residency Advisory Board, Alcon
2011-12	Director, Advanced Cataract Training Course, Shanghai, China, Alcon
2012-17	Consultant, Data Monitoring Committee, Amgen
2012-14	Consultant, Angiotech/Sharpoint
2013-18	Consultant, Data Monitoring Committee, Sanofi/Genzyme

2013	Visiting Faculty, LifeLine Express, Xinxiang, China
2018	Visiting Faculty, LifeLine Express, Yang Jiang, China
2014	Invited Faculty, Advanced Cataract Training Course, Jinan, China, Alcon (Feb 2014)
2014-15	Consultant, Novartis
2014-17	Consultant, Beaver-Visitec
2015-19	Consultant, Sanofi-Genzyme

Major Administrative Leadership Positions

Local

1994-95	Associate Chief of Ophthalmology for Residency and Fellowship Affairs, Mass. Eye & Ear Infirmary
1994-95	Director of Trauma Service, Massachusetts Eye & Ear Infirmary
1994-95	Chief Resident in Ophthalmology, Mass. Eye & Ear Infirmary
1994	Course Director, Practical Ophthalmology for Primary Care, MEEI
1995	Course Director, Non-Infectious Inflammatory Disorders of the Eye and Adnexa, MEEI, Course Director (Course published in IOC)
1998-02	Division Chief of Ophthalmology, Brigham and Womens Hosp.
1998-02	Fellowship director, Anterior Segment Fellowship, BWH
2005-19	Co-Course Director, Harvard Medical School Intensive Cataract Surgical Training Conference (largest and most popular cataract course for American Second Year Ophthalmology Residents)
2006-17	Director, Refractive Surgery Service, MEEI
2006-19	Director, ICO Fellowship, Cornea, MEEI

Committee Service

Local

1985-87	Medical School Student Council, First and Second year rep., treasurer, Univ. of Minnesota
1985-88	Student International Health Committee, Univ. of Minnesota
1987-89	Student Representative to the Committee on Student Scholastic Standing of the University of Minnesota Medical School
1993	The Chandler Visiting Professorship Co-coordinator, MEEI
1993-4	MEEI Ophthalmology Residency Steering Committee, MEEI
1994	The Shipsey Lectureship Committee, MEEI
1994-5	Full-time Medical Staff Committee, member, MEEI
1994-5	Ophthalmology Fellowship Committee, MEEI
1994-5, 02-11	Ophthalmology Residency Selection Committee, MEEI
1994-5	Ophthalmology Residency Steering Committee, MEEI
1994-5	Graduate Medical Education Committee, MEEI
1994-5	Alumni Association, Program Co-chairman, MEEI
1998-02	Operating Room Committee, Brigham and Womens Hospital
1999-02	Practice Advisory Committee, member, MEEI
2002-03	Ophthalmology Residency Steering Committee, member, MEEI
2003-04	Surgicenter Planning Committee, member, MEEI
2004-05	MEEA Board, Physician representative, MEEI
2004-08	Eye Service Executive Committee, Active Staff, MEEI
2007-08	Joint Operating Room Committee, member, MEEI
2008-18	Holmes Society Mentorship Program, HMS, faculty
2010-11	MEEA Board, Physician representative, MEEI

2012-17 Ophthalmology Practice Advisory Committee, MEEI

Regional

1986-87 Medical School Representative to the MN. Student Assoc. (MSA) forum and senator to the Univ. of Minnesota Student Gov't

National:

1985-89 La Raza Medical Association (La RaMA), Univ. of Minnesota Chapter, Chairman and secretary

1998-01 National Hispanic Mentorship Program, member

2008-12 Faculty Advisor, Unite for Sight, Harvard College Chapter

International

2008-13 Editorial Board, Lasers in Medical Science (End Vol 28, issue 6)

2009-12 Member, International Advisory Committee, TBI International Federation of Eye and Tissue Banks

2009-19 Treasurer, Visionaries International, www.visionaries-international.org

2014-19 Committee Member, ICO fellowship

Professional Societies

1986-9 American Medical Student Association (AMSA), U of M

1990- The Association for Research in Vision and Ophthalmology (ARVO), member

1994- American Society of Cataract and Refractive Surgery, Member

1995- International Society of Refractive Surgery, Member

1997- The Corneal Society, Member

1997- The American Academy of Ophthalmology, Fellow

Educational subcommittee, Refractive Surgery Interest Group

AAO Ethics committee, Member (2009-2015)

AAO Practicing Ophthalmology Curriculum Panel,

Cataract/Anterior Segment, Member (2008-2013)

AAO PPP Adult Cataract (2015-2016)

2000- New England Ophthalmological Society (NEOS), Active member

2000-09 Massachusetts Society of Eye Physicians and Surgeons, Member

2009-14 Contact Lens Association of Ophthalmologists, Regular Member

2012-18 ASCRS, Phaco Fundamentals committee

2014 AAO 2014 Media Advisory Task Force (MATF), Refractive

2016 International Intraocular Implant Club (IIIC), Inducted Member

Grant Review Activities

2011 ZEY1 VSN (02) Review Committee NEI/NIH, Ad hoc Member

Editorial Activities

1997-14 Ad hoc reviewer Ophthalmology (Journal of the AAO)

1999-14 Ad hoc reviewer Journal of Cataract and Refractive Surgery

2003 Ad hoc reviewer IOVS

2003-14 Ad hoc reviewer Cornea

2004-14 Ad hoc reviewer Digital Journal of Ophthalmology

Honors and Prizes

- 1980 3M Scholarship
- 1985 Minority Higher Ability Scholarship
- 1987 The Univ. of Minnesota President's Student Leadership and Service Award
- 1988 The Univ. of Minnesota President's Student Leadership and Service Award
- 1989 Minnesota Medical Foundation 1989 Student Achievement Award
- 1989 The National Dean's List
- 1989 Alpha Omega Alpha, Honor Medical Society
- 1996 Heed Ophthalmic Fellowship
- 1997 Teacher of the Year, Department of Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard Medical School
- 2000 2000 Partners in Excellence Award- United Arab Emirates Project Team
- 2001 Medical Staff Recognition Award, Massachusetts Eye & Ear Infirmary, Harvard Medical School (Teaching)
- 2002 American Academy of Ophthalmology's *Achievement Award*
- 2011 Nomination for the HMS/HSDM Dean's Community Service Award
- 2014 American Academy of Ophthalmology's *Senior Achievement Award*
- 2014-18 Distinguished Scholar Award, Dept of Ophthalmology, HMS
- 2018 Jose Ignacio Barraquer Magna Lecture and Medal, XVII International Congress of Cataract and Refractive Surgery, BRASCRS, Sao Paulo, Brazil
- 2019 Richard L. Lindstrom Lectureship (Given at the ECLA symposium at ASCRS, San Diego, CA)

Report of Funded and Unfunded Projects

Past Funded Projects

- 1995 Large Corneal Abrasion Study +/- Acular, Randomized clinical trial
Co-Principal Investigator
Alcon Labs
- 2007-2009 Trial of CK-103 eye drops in cataract patients, Phase 1 drug trial
Principal Investigator
Chakshu Research, CK-104

Current Funded Projects

- 2009-2012 Brillouin Confocal Microscopy for imaging the cornea and lens
CIMIT Grant (\$50,000)
Co-Principal Investigator
The major goal of the study is to evaluate the use of non-contact Brillouin microscopy to measure the elastic modulus of the cornea and lens *in vivo*.
- 2014-2016 UL1-RR025758 (Harvard Catalyst Incubator program)
Brillouin Confocal Microscopy for imaging the cornea and lens
\$50,000
Co-Principal Investigator

Past Unfunded Projects

- 2004 Intacs for the Treatment of Keratoconus, Investigator (#01-04-021)

Purpose was to evaluate the safety and efficacy of Intacs for keratoconus

2007-2011 Primary aqueous research study, Principal Investigator
The purpose of the study was to evaluate the aqueous humor level of amyloid-beta peptides related to Alzheimer's disease

Current Unfunded Projects

2008-2017 Five year prospective evaluation of the Boston Keratoprosthesis in the developing world (Ethiopia and Sudan).
I am coordinating a 5 year prospective study on the viability of the Boston Keratoprosthesis in non-Western countries through the use of an International Boston Keratoprosthesis Protocol.

2011-2013 Comparative analysis of the IOL Master and LenStar in patients with previous laser vision correction.
Coordinating data acquisition and analysis of data with editing of the manuscript submitted for publication.

2012-2014 Comparative analysis of myopic and hyperopic pre and post FemtoLASIK of wavefront aberrometry

2014-2015 Analysis of outcomes in IOL exchange for patients with premium IOLs

Report of Local Teaching and Training

Teaching Students in Courses

2001-2013	Patient-Doctor II Clinical Skills Transfer Course 2 nd year medical Students	HMS 3 hour session
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Formal Teaching of Resident, Clinical Fellows and Research Fellows (post-docs)

1997	Postoperative Complications of Cataract Surgery Ophthalmology Residents, Fellows	MEEI 1 hour lecture
1997	Ocular Pharmacology Ophthalmology residents	MEEI 1 hour lecture
1997	The History of Cataract Surgery and The Selection of Intraocular Lenses Ophthalmology residents, Fellows (MEEI)	1 hour lecture
1998-11	Corneal topography Ophthalmology residents	MEEI One hour lecture
1999	Conjunctival and Corneal Neoplasias Ophthalmology residents	MEEI One hour lecture
2001-09	Corneal Survival Skills 1 st year ophthalmology residents	MEEI One hour lecture
2008-10	Refractive surgery Ophthalmology residents	MEEI One hour lecture
2011	Presbyopic IOLs Ophthalmology residents	MEEI One hour lecture
2011	Keratoconus Ophthalmology residents	MEEI One hour lecture
2012	Keratoconus Ophthalmology residents	MEEI One hour lecture
2013	Corneal Topography Ophthalmology residents	MEEI One hour lecture

Clinical Supervisory and Training Responsibilities

Harvard Medical School Medical Students

1993-95	HMS Basic Ophthalmology Clerkship, lecturer (MEEI) Third and Fourth year medical students (10-15) 2 hours preparation and contact time per clerkship (2x/year)
1996-05	HMS Clinical Ophthalmology Clerkship, Attending (MEEI) Fourth year medical students (8) 50% mentorship for 1 month (2x/year)
2003-04	HMS Advanced Ophthalmology Clerkship, Attending (MEEI) Fourth year medical student, Daily mentorship for 1 month
2006-14	HMS OP501 and OP501M.8, Basic Clinical Elective in Ophthalmology, Mentor (MEEI) Third and Fourth year medical students 50% daily mentorship for 1 month (2x/year)
2011	HMS OP502. Research Elective in Ophthalmology, Mentor (MEEI), Third and Fourth year medical students 100% daily mentorship for 1 month (1x/year)

Harvard Medical School Ophthalmology Residents

1995-2015	Major contribution in the clinical and surgical training of residents during all 3 years of training with emphasis in cataract and cornea, and more recently refractive surgery. Depending on the rotation and year this has varied from 5% to 50%
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Harvard Medical School Ophthalmology Fellows

1998-2002	Anterior Segment Fellow, BWH/MEEI. Involved in the clinical and surgical training of fellow, 33% daily mentorship
1998-2015	Cornea and Refractive Surgery Fellow, MEEI. Major clinical and surgical training of the fellow, 100% daily mentorship, 25% of total fellow experience

Laboratory and Other Research Supervisory and Training Responsibilities

Formally Supervised Trainees and Faculty

Formal Teaching of Peers (e.g., CME and other continuing education courses)

No presentations below were sponsored by outside entities

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| 1993 | Controversies in Ophthalmology, <u>The Role of Topical Steroids in the Management of Acanthamoeba Keratitis, Fungal Keratitis and Epidemic Keratoconjunctivitis</u> , MEEI, lecturer |
| 1994 | Practical Ophthalmology for Primary Care, <u>Ocular Manifestations of Systemic Disease</u> , MEEI, lecturer |

- 1994 Retina Workshop for Nurses and Technicians, Overview-Related Ocular Anatomy and Physiology, MEEI, lecturer
- 1995 Practical Ophthalmology for Primary Care, Ocular Injuries, MEEI, lecturer
- 1996 Ophthalmic Nursing Seminar, Anatomy and Physiology of the Eye, MEEI, lecturer
- 1996 Ocular and Adnexal Infections, Management of Postinfectious Ulcerative Keratitis, MEEI, lecturer
- 1996 Course Faculty, Harvard Review Course in Ophthalmology, Emergency Medicine and Anesthesia, MEEI, lecturer
- 1996 Course Faculty, Laser Vision Correction Optometric Education Program, PRK Selection and Evaluation, MEEI, lecturer
- 1997 The Lancaster Course in Ophthalmology, The History of Cataract Surgery and The Selection of Intraocular Lenses, Colby College, Maine, lecturer
- 1998 The Lancaster Course in Ophthalmology, The History of Cataract Surgery and The Selection of Intraocular Lenses, Colby College, Maine, lecturer
- 1999 The Lancaster Course in Ophthalmology, The History of Cataract Surgery, The Selection of Intraocular Lenses, Classification of Cataracts, and, Cataracts from a Global Perspective, Colby College, Maine, lecturer
- 1999 Amil Study Group, Continuing Education Program, Cataract Surgery After Refractive Surgery (10/18/99)
- 2002 Brigham and Women's Hospital, Department of Medicine, 25th Annual Intensive Review of Internal Medicine: Office Ophthalmology
- 2003 Kevin Hill Seminar in Ophthalmology, Colby College, ME
- 2003 Lancaster Course in Ophthalmology, Colby College, ME, Corneal Anatomy and Physiology
- 2003 Brigham and Women's Hospital, Department of Medicine, 26th Annual Intensive Review of Internal Medicine: Office Ophthalmology
- 2004-09 Lancaster Course in Ophthalmology, Colby College, ME, Refractive Surgery and Corneal topography
- 2004 Brigham and Women's Hospital, Department of Medicine, 27th Annual Intensive Review of Internal Medicine: Office Ophthalmology

- 2005 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June 4th-5th), Invited Speaker, Surgical Blade Design, Geometry, and Tissue Considerations
- 2006 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, Surgical Blade Design, Geometry, and Tissue Considerations
- 2007 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, Astigmatism Management in Cataract Surgery
- 2008 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, Astigmatism Management in Cataract Surgery
- 2009 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, New IOL technology
- 2011 Lancaster Course in Ophthalmology, Colby College, ME, Refractive Surgery (4 hours)

Local Invited Presentations

- 1999 Grand Rounds, Department of Surgery, Brigham and Women's Hospital, Laser Vision Correction (1/27/99)
- 1999 Grand Rounds, Department of Medicine, Massachusetts General Hospital, Laser Vision Correction Update (9/23/99)
- 2000 BWH Operating Room Nursing and Technical Staff, Laser Refractive Surgery Update (11/29/00)
- 2005 Harvard Medical School, Department of Ophthalmology, 2005 Update on Ophthalmology (June 17th-18th), Invited Speaker, Microincisional Cataract Surgery/Bimanual Phacoemulsification
- 2006 Grand Rounds, Massachusetts Eye and Ear Infirmary, Cornea and External disease in Ethiopia, Boston, MA, 2/22/06.
- 2008 Harvard Medical School, Department of Ophthalmology Alumni Meeting, Massachusetts Eye and Ear Infirmary, Invited speaker, Current trends in the treatment and management of keratoconus, Boston, MA, 6/21/08.
- 2009 Grand Rounds, Massachusetts Eye and Ear Infirmary, Fabry's disease, Boston, MA, 1/7/09.
- 2013 Grand Rounds, Boston Childrens Hospital, Ocular Manifestations of Mucopolysaccharidoses, Boston, MA Feb 6, 2013

- 2014 Boston Keratoprosthesis workshop, Invited Speaker and Course Instructor, MEEI, Boston, MA April 24th, 2014
- 2014 MEEI Alumni Meeting, Mariana Mead Lecturer, June 20th, 2014

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by outside entities

Regional

- 1997 Invited Paper, The New England Ophthalmological Society (666th meeting), Optometric Co-Management of keratorefractive Surgical Patients: Pros and Cons, Boston, MA.
- 1999 Invited Paper, The New England Ophthalmological Society (675th meeting), Special Considerations in IOL Power Calculations, Boston
- 2000 Invited Guest Speaker, Massachusetts Society of Optometrists, LASIK 2000 and Beyond, 10/29/00.
- 2001 Invited Guest Speaker, XII Collaborative Program for Ophthalmic Personnel in Conjunction with NEOS, Triaging: You Take the Call, Anterior Segment, Boston, MA, 10/19/2001.
- 2002 Invited Paper, The New England Ophthalmological Society (688th meeting), The Complicated Cataract, Boston, MA
- 2002 Invited Paper, The New England Ophthalmological Society (691th meeting), Not Your Average Joe or Josephina: Unusual Refractive Candidates, Boston, MA, 9/13/02.
- 2003 Moderator, New England Ophthalmological Society (697th meeting), Value-based Assessment of Refractive Surgery, Boston MA, 12/12/03.
- 2006 Invited Lecturer, Corneal Conditions and Corrections, Corneal Anatomy and Physiology, JCAHPO, Waltham, MA, 4/1/06.
- 2006 Invited Speaker, New England Ophthalmological Society (NEOS), Ophthalmology Update for Physicians: A Practical Review. The Red Eye, Waltham, MA, 4/29/06.
- 2007 Invited Paper, The New England Ophthalmological Society (714th Meeting), Post-LASIK Keratitis: Infectious vs. Inflammatory, Boston, MA, 4/20/07.
- 2008 Grand Rounds Invited Speaker, Carney Hospital, Dorchester, MA. Boston keratoprosthesis and Refractive surgery. (2/6/08)

- 2008 Invited Paper, The New England Ophthalmological Society (720th Meeting) , Phaco Chop Techniques: Horizontal vs. Vertical, Boston, MA, 5/30/08.
- 2008 Invited Moderator, Brown Alpert School of Medicine, Division of Ophthalmology, The 11th Annual Resident Research Forum, Providence, RI, 6/13/08.
- 2008 Invited Speaker, Martha's Vineyard Cornea Meeting: 2 case reports
- 2008 Invited Speaker, JCAHPO, Boston Regional Educational Program, Recent Advances in the Treatment of Keratoconus, Boston, MA, 10/25/08.
- 2009 Grand Rounds Invited Speaker, Department of Ophthalmology, Boston University, Current trends in the treatment and management of keratoconus. Boston, MA, 4/1/09
- 2009 Invited Paper, The New England Ophthalmological Society (724th Meeting), Surgical Treatment of Astigmatism, Boston, MA, 4/17/09.
- 2009 Guest Faculty, Invited speaker, 35th Annual Kevin Hill Seminar in Ophthalmology-Cornea Update, 2 talks, Management of Astigmatism and Keratoconus Treatment Update, Waterville, ME, July 13-17, 2009.
- 2009 Invited Paper, The New England Ophthalmological Society (727th Meeting), Management of Astigmatism during Cataract Surgery, Boston, MA, 11/20/09.
- 2010 Guest Faculty, Invited Speaker, Cape Cod Innovations and Controversies in Ophthalmology, Glaucoma, Anterior Segment and Retinal Therapies, 2 lectures, Brewster, MA, Sept 24-26, 2010.
- 2010 Invited Paper, The New England Ophthalmological Society (731st Meeting), Ethical Informed Consent for Refractive Surgery, Boston , MA, 10/1/10.
- 2010 Moderator, New England Ophthalmological Society (731st Meeting), Cornea and Refractive Surgery, Boston, MA, 10/1/10
- 2011 Invited Paper, The New England Ophthalmological Society (735st Meeting), Refractive Enhancement of Premium IOLs, Boston, MA, 12/9/11
- 2012 Invited Paper, The New England Ophthalmological Society (741st Meeting), The Advantages of Deep Anterior Lamellar Keratoplasty, Boston, MA, 9/14/12
- 2013 Invited Faculty, The New England Ophthalmological Society (745st Meeting), Refractive Subspecialty Session, Boston, MA, May 17, 2013
- 2014 Grand Rounds, Invited Speaker, Boston University, May 28th, 2014

- 2014 Invited Faculty, The New England Ophthalmological Society (750th Meeting), Deep Anterior Lamellar Keratoplasty: A Review, Boston, MA, May 30th, 2014
- 2014 Invited Lecture, Jamaica Plains Veterans Administration Hospital, The Role of Corneal Topography in Cataract Surgery. June 9th, 2014
- 2015 Invited Faculty, The New England Ophthalmological Society (753nd Meeting), The Wrong IOL: Issues of Risk Management and Ethics, Boston, MA, March 6th, 2015
- 2016 Invited Lecture, Jamaica Plains Veterans Administration Hospital, Accommodative and Multifocal IOLs. October 26th, 2016
- 2016 Invited Faculty, The New England Ophthalmological Society (762th Meeting), Focusing on Yesterday, Today and Tomorrow: Presbyopic IOLs, where are we?, Boston, MA, December 2nd, 2016
- 2017 Invited Faculty, The New England Ophthalmological Society (766th Meeting), Update on Intraocular Lens Calculations, Boston, MA, December 20th, 2017

National

- 1996 Paper Session Moderator, ARVO, Ocular Trauma, Fort Lauderdale, FL
- 1998 Invited lecture, Jules Stein Eye Institute, UCLA, Recognition and Treatment of Visual Disturbances in Corneal Epithelial Basement Membrane Dystrophy, Los Angeles, CA.
- 1999 Invited Lecture, W. Kellogg Eye Institute, University of Michigan, Recognition and Treatment of Visual Disturbances in Corneal Epithelial Basement Membrane Dystrophy, Ann Harbor, MI.
- 1999 Invited Lecture, New York University, Corneal and Conjunctival Neoplasia, New York, NY, 9/99.
- 2004 Visiting Professor lecture, Department of Ophthalmology, University of Tennessee, Memphis, Surgical Consideration in Ocular Trauma and Anterior Segment Reconstruction, Memphis, TN, 2/1/04.
- 2004 Visiting Guest Lecturer, Department of Ophthalmology, University of Tennessee, Memphis, Eighth Annual Update for the Comprehensive Ophthalmologist, 2 lectures, Memphis, TN, 12/4/04.
- 2006 Invited Speaker, Grand Rounds, Yale Department of Ophthalmology, New Haven, CT, May 12, 2006.

- 2006 Invited Guest Speaker, First Annual University of Louisville Fall Meeting, 2 lectures, Louisville, KY, September 16, 2006.
- 2007 Invited Speakers, Grand Rounds, Sanford University, Department of Ophthalmology. Surgical Evaluation of Astigmatism, Palo, Alto, CA, May 2007
- 2008 Grand Rounds Invited Speaker, Cornell-Weill Medical School, Department of Ophthalmology, DSEK Surgery, New York, NY. March 27th, 2008.
- 2008 The Annual Convention of The Memphis Eye Society, Invited Speaker/Visiting Faculty, 3 lectures, Memphis, TN, May 10th, 2008
- 2009 Guest Faculty, Invited Speaker, UCSF COAST 2009, Course on Ophthalmic Advanced Surgical Techniques. Premium IOLs and Postrefractive IOL calculations. San Francisco, CA, 3/7/09.
- 2009 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), East Coast Region. Baltimore, MD, 4/24/09.
- 2009 Invited Speaker, Chicago Ophthalmological Society. "Corneal Topography and Cataract Surgery: Mandatory or Marketing?" Chicago, IL, 10/12/09.
- 2009 Invited Speaker, CORSO 2009. Bascom Palmer Eye Institute. 3 lectures: Surgical treatment of Astigmatism, Keratoprosthesis in the Developing World, A Pilot Project, KeraKlear: A Novel Keraoprosthesis, Miami, FL, Nov 1-2, 2009.
- 2010 Invited Speaker, Sports Vision 2010- A New Paradigm. The Role of Refractive Surgery in Sports Performance. Boston, MA 1/25/2010
- 2010 Invited Speaker, Grand Rounds, Montefiore Medical Center, Department of Ophthalmology. Role of Corneal Topography in Cataract Surgery, Bronx, NY, 3/1/2010.
- 2010 Guest Faculty, Invited Speaker, UCSF COAST 2010, Course on Ophthalmic Advanced Surgical Techniques. Premium IOLs and Postrefractive IOL calculations. San Francisco, CA, 5/15/2010.
- 2010 Guest Faculty, Annual Buffalo Ophthalmology Symposium, 2 lectures (Topography and Cataract Surgery, Astigmatism Management), Buffalo, NY, 6/4/2010.
- 2010 Invited Speaker, Voices from the Field, ORBIS International Major Donor Reception, Harvard Club, New York City, 11/9/2010
- 2011 Invited Speaker, American Society of Retina Specialists, Cornea, Anterior Segment Review, Boston, MA, Saturday August 20th, 2011

- 2011 Guest Speaker, New Mexico Academy of Ophthalmology, Annual Scientific Meeting, Updates in Ophthalmology, 2 lectures, Albuquerque, NM, Saturday September 24th, 2011
- 2011 Guest Faculty and Speaker, Bascom Palmer Cataract Wet Lab Course, Miami, FL, Saturday Oct 1st, 2011
- 2012 Invited Speaker, CLAO meeting, Ethics Symposium, Ethical and Legal Issues in Sport Medicine, Las Vegas, NV, Jan 28, 2012
- 2012 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), East Coast Region. Baltimore, MD May 4-5, 2012
- 2012 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), Central Region. Chicago, IL, Oct 20-21, 2012
- 2012 Invited Speaker, AAO Cornea Subspecialty Day, Ethical Issues Associated with Incorporating New Surgical Techniques into Your Practice, Chicago, IL Nov 10, 2012
- 2012 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), West Coast Region. San Diego, CA, Dec 7-8, 2012.
- 2013 Invited Speaker, UCLA Department of Ophthalmology Cornea Service Lecture, The Role of Corneal Topography/Tomography in Cataract Surgery, Los Angeles, CA, Jan 9th, 2013
- 2013 Invited Speaker, UCLA Department of Ophthalmology Grand Rounds, Developing Corneal Imaging Technology: Brillouin Optical Microscopy for Corneal Biomechanics, Los Angeles, Jan 9th, 2013
- 2013 Invited Speaker, Cornell University Department of Ophthalmology Grand Rounds, Advances in Analyzing Corneal Biomechanics: Clinical Implications, New York, NY, April 4th, 2013
- 2013 Invited Speaker, Cornea Day ASCRS, Refractive Nightmares, "Seizing the Moment", San Francisco, CA, April 19th, 2013
- 2013 Guest Faculty, Invited Speaker, UCSF COAST at ASCRS 2013, Course on Ophthalmic Advanced Surgical Techniques. Management of Astigmatism in Cataract Surgery. San Francisco, CA, April 22, 2013.
- 2013 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), Central Region. Chicago, IL, Oct 4-6, 2013
- 2013 AAO, Invited Speaker, International Young Ophthalmology Session, rm 252. Adopting New Techniques in Surgery after Formal Training: Ethical Considerations.

- 2014 Grand Rounds, Invited Speaker, New York University Department of Ophthalmology, Corneal Biomechanics: Why and How We Should Study It! Jan 14th, 2014
- 2014 New York University Department of Ophthalmology Resident Lecture, The Role of Corneal Topography/Tomography in Cataract Surgery, Jan 15th, 2014
- 2014 Nashville Academy of Ophthalmology, Invited Speaker, Multifocal IOLs, Who's Right and Who's Wrong, and How the Wrongs are Righted! Jan 27th, 2014
- 2014 Vanderbilt University Department of Ophthalmology Resident Lecture, The Role of Corneal Topography/Tomography in Cataract Surgery, Jan 28th, 2014
- 2014 ASCRS REACT Cataract Course in NYC, Invited Speaker, March 1st, 2014
- 2014 Cornea Subspecialty Day, ASCRS, Invited Speaker, April 25th, 2014, Boston, MA
- 2014 CLAO meeting, Invited Speaker, 2 lectures (Toronto), June 12-15, 2014
- 2014 Arizona Ophthalmology Society Meeting, Invited Speaker (Flagstaff), 3 lectures, June 27-29, 2014
- 2014 Northwestern Resident Phaco Course, Invited Keynote Lecturer, September 13, 2014 Chicago, IL
- 2014 ISRS Panel Member, Refractive Surgery Subspecialty day AAO, Will Biomechanics Change the Way We Do Laser vision Correction in the Future? Oct 17th, 2014, Chicago, IL
- 2014 AAO Refractive Surgery Subspecialty Day, Break with the Experts, Elevation corneal Tomography, Oct 17th, 2014, Chicago, IL
- 2014 AAO Refractive Surgery Subspecialty day, New Technology in corneal Diagnostics, Brillouin Microscopy. Invited Speaker, Oct 18th, 2014, Chicago, IL
- 2014 AAO International Ethics Symposium, Informed Consent, Invited Speaker, Oct 2014, Chicago, IL
- 2014 Johns Hopkins Cataract and Cornea Practicum, Wilmer Eye Institute, Invited Speaker, Nov 15-16, 2014, Baltimore, MD
- 2014 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), West Coast Region. Carlsbad, CA, Dec 6-7, 2014

- 2015 Keynote Speaker, XII World Cornea Congress, Corneal Transplantation in the Developing World: Lessons Learned, San Diego, CA. April 17, 2015
- 2016 ASCRS REACT Cataract Course in NYC, Invited Speaker, March 5st, 2016
- 2016 Texas Ophthalmological Association, 2016 Annual Meeting, Hilton Anatole Hotel, Dallas, Texas, Invited Speaker, April 29. 2016
- 2016 Will Eye Hospital, Visiting Professor Series, Invited Speaker, May 11th, 2016
- 2016 AAO, 2016 Subspecialty Day Faculty: Refractive Surgery 2016: Prusuit of Perfection, Break with the Experts, Elevation corneal tomography, Oct 14, 2016 Chicago, IL
- 2017 ASCRS Paper Session Moderator, 1-A Femtosecond Laser, May 6th, 2017, Los Angeles, CA
- 2017 ASCRS Symposium S-16: Symposium of Challenging Cases “A Refractive Bark Worst Than Its Bite”, Presenting Author and Panelist, May 7th, 2017, Los Angeles, CA
- 2017 AAO, 2017 Subspecialty Day Faculty, Breakfast with the Experts, Corneal Tomography, Nov 10th, 2017, New Orleans, LA
- 2017 AAO, 2017 Subspecialty Day Faculty, ISRS Lunch Symposium: Corneal collagen crosslinking biomechanical and histological effects, Nov 10th, 2017, New Orleans, LA
- 2018 Interactive Consultations in Cornea and Refractive Surgery, Invited Faculty. 5 lectures. Bascom Palmer Eye Institute, Feb 23-24, 2018, Miami, FL
- 2018 CSE, 2nd Year Resident Program and Wet Lab, Invited Faculty. Two lectures. Fort Worth, TX, March 24-25, 2018
- 2018 Grand Rounds, Stanford University, Byers Eye Institute, Two lectures, Palo Alto, CA, June 7, 2018
- 2018 AAO, Invited Faculty, Cornea Subspecialty Day: How Imaging Help Me, Chicago, IL, October 27, 2018
- 2019 Panelist, AAO Refractive Surgery Subspecialty Day 2019, Section II: Corneal Laser Vision Correction-Beyond the Usual Knowledge, October 11, 2019

International

- 1999 Invited Guest Speaker, Philippine Academy of Ophthalmology, Refractive Surgery, Manila, Philippines, 11/99.

- 2000 Invited Guest Speaker, Ophthalmologic Congress of the Dominican Republic, Cornea and Refractive Surgery, 7/2000.
- 2001 Invited Guest Speaker, Asian Eye Institute, Manila, Philippines
- 2007 Invited Guest Speaker, Universidad de San Luis Potosi, Mexico, October 19th, 2007. Corneal Topography/ Wavelight Allegretto Eye-Q
- 2007 Invited Speaker, XVII Simposium de Catarata y Cirugia Refractiva, Tijuana, Mexico. Nov 30-Dec 1, 2007. Boston Keratoprosthesis (Conferencia Magistral)
- 2008 Invited Speaker, Makkah Eye Complex, Khartoum Sudan, Beyond Graft Failure: The Boston Keratoprosthesis, (12/14/2008)
- 2010 Invited Speaker, XI International Congress of Cataract and Refractive Surgery (BRASCRS), 3 lectures, Natal, Brazil, from May 19th-22nd, 2010.
- 2010 Guest Faculty, 1st Meeting Arab Forum of Ophthalmology, 2 lectures, Cairo, Egypt, Dec 16th-17th, 2010
- 2011 Guest Faculty, CorneaConnect 2011, LAICO, Aravind Eye Care System, 3 Lectures, Madurai, India, Jan 8th-9th, 2011
- 2012 Invited Speaker, XII International Congress of Cataract and Refractive Surgery (BRASCRS), 5 lectures, Parque Anhembi, Sao Paulo, Brazil, from May 30- June 2, 2012
- 2013 Guest Speaker, Dar El-Oyun Cornea and Refractive Meeting, Marriot Hotel, AIDA Ballroom. Cairo, Egypt, Jan 24th, 2013. 2 Lectures
- 2013 Invited Speaker, Bombay Ophthalmologists' Association and Advanced Eye Hospital, Demystifying Advances in Cornea and Refractive Surgery, Navi Mumbai, India, Mar 17th, 2013. 3 lectures
- 2013 Invited Speaker, Sri Sankaradeva Nethralaya, Gawahati, India, 3 lectures, March 20-21, 2013
- 2013 Invited Speaker, LVII Curso de Formacion y Perfeccionamiento de Oftalmologos, Encuentro con las oftalmologia de Harvard, Santiago, Chile, May 24-25, 2013. 5 lectures
- 2013 Invited Speaker, PAAO/CBO meeting, Rio de Janeiro, Brazil, 4 lectures, Aug 7-10, 2013
- 2013 Invited Speaker, Cataract and Refractive Panorama AEHI CME, 3 lectures, Navi Mumbai, India Sept 22, 2013
- 2013 Invited International Faculty, USP Alumni Meeting, Sao Paulo, Brazil, Nov 28-Dec1, 2013. 4 lectures

- 2014 XIII International Congress of Cataract and Refractive Surgery (BRASCRS), Rio de Janeiro, Brazil (April 2-5, 2014), 3 lectures
- 2014 XXI Brazilian Congress of Ophthalmology (CBO), Blindness Prevention and Visual Rehabilitation, Recife, Brazil, Invited International Speaker, 10 lectures Sept 3-7, 2014
- 2014 MEEI Ophthalmology Scholar Exchange China Program, Invited Participant, 2 lectures, September 2014
- 2014 Invited speaker, LV Prasad Eye Institute Education Day, Scientific Meeting, 3 lectures, December 2014
- 2014 Guest Faculty, Sightlife CSCT, LVPEI, Hyderabad, India. December 2014
- 2015 Guest Speaker, Grand Rounds, Corneal Biomechanics. Université of Montréal-Ophthalmologie, Montreal, Canada. May 2015
- 2015 Invited speaker, Special day of refractive surgery. Brillouin microscopy update: potential applications, 38th CBO meeting, Florianopolis, Brazil, September 2, 2015
- 2015 Invited speaker, Special day of cataract. Cataract surgery in Marfan patients: Surgical considerations, 38th CBO meeting, Florianopolis, Brazil, September 2, 2015
- 2015 Invited International Speaker, Special day of cornea and external disease, Rethinking surgical approaches for Fuchs endothelial dystrophy, 38th CBO meeting, Florianopolis, Brazil, September 2, 2015
- 2015 Panelist, Refractive Surgery 2015: The Vegas Player's Guide of Refractive Surgery-Everyone Wins! REF03- Panel Discussion
- 2015 Invited International Speaker, Federal University of Sao Paulo (UniFESP), Specialization Course on Cornea, November 27-28, 2015
- 2015 Invited International Speaker, Keracon, 3rd National Meeting of Cornea Society of India, Kolkata, India, December 11-13, 2015
- 2015 Invited International Speaker, XXV Annual Congress of the Iranian Society of Ophthalmology, 14-17 December 2015, Tehran, Iran
- 2016 XIV International Congress of Cataract and Refractive Surgery (BRASCRS), Sao Paulo, Brazil, June 1-4, 2016, 7 lectures
- 2017 Invited International Faculty, Ljubljana Refractive Surgery Meeting, Ljubljana, Slovenia, May 26-28, 2017, 3 lectures
- 2017 Invited International Faculty, Intraocular Implant & Refractive Surgery, India (IIRSI 2017), Chennai, India, July 8-9, 2017, 3 lectures

- 2018 Invited International Faculty, Bangladesh Cornea and Refractive Society (BCRS), 1st International Conference, Dhaka, Bangladesh, March 15th, 2018, 4 lectures (Part of the 45th Annual National Conference of the Ophthalmological Society of Bangladesh)
- 2018 Invited International Faculty, The 26th Annual Meeting of the Lebanese Ophthalmological Society (LOS), 3 lectures, Beirut, Lebanon, April 26-28, 2018
- 2018 Invited International Faculty, Congresso Brasileiro de Cataracta e Cirurgia Refractiva (BRASCRS), 3 lectures, Sao Paulo, Brazil, May 16-19, 2018
- 2018 Invited International Faculty, Annual Conference of the Indian Society of cornea and Keratorefractive Surgeons (ISCKRS MEET 2018), 2 Lectures, New Delhi, India, August 4-5, 2018
- 2019 Invited International Faculty, International Cornea Cataract & Refractive Meeting (INCCA), 4 lectures, Lima, Peru, April 11-13, 2019
- 2019 Invited International Faculty, Congresso Brasileiro de Cataracta e Cirurgia Refractiva (BRASCRS), 4 lectures, Brasilia, Brazil, May 29-June 1, 2019
- 2019 Invited International Faculty, CorneaConnect 2019, Arivand Eye System, Chennai, India, September 7-8, 2019
- 2019 Invited International Faculty, SINBOS 2019, Sorocaba, Brazil, October 24-26, 2019
- 2019 Invited International Faculty, The 60th Annual Meeting of the Ophthalmological Society of Taiwan, Taipei, Taiwan, Dec 13-15, 2019

Teaching in professional society courses

- 2000 ASRCS Course, 101 Corneal and Cataract Pearls, Boston, MA
- 2000 ASCRS Course, Controversial Topics in LASIK, Boston, MA
- 2003 ASCRS Course #2110, Refractive Surgery Techniques in the Management of Corneal Diseases: Intracorneal Rings for Keratoconus
- 2003 AAO Course, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism
- 2004 AAO Course, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism
- 2005 AAO Course, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism
- 2006 AAO Course 761, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism(Galileo 1001), Course Instructor
- 2009 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, Moderator

2009 AAO Course #670, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (West 2018). Course Instructor

2009 AAO, Skills, Management of Vitreous for the Anterior Segment Surgeon, Course Instructor (LAB484A, South 100 Mascone)

2010 ASCRS/ASOA, Scientific Paper Session Panelist, Intraocular Surgery IOLs: Microincisions and Materials (4/11/10), 2-D BCEC, 204B

2010 ASCRS/ASOA, Skills Transfer Session, STS2: Advanced Phaco, Course Instructor

2010 AAO Course #362, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (West 2018). Course Instructor

2010 AAO Annual Meeting, Course 521: Just the Facts: (New) No-Nonsense Ethics Case Studies, Research vs. Clinical Practice, Instructor

2010 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, Moderator

2010 AAO Annual Meeting, Original Paper Panel, Cornea, External Disease I, Monday, Oct 18th, S406B, Moderator

2010 AAO, Skills, Management of Vitreous for the Anterior Segment Surgeon, Course Instructor

2011 ASCRS, STS3 Advanced Phaco, SDCC 14B, Course Instructor

2011 AAO Course #588, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (W204c). Course Instructor

2011 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, #B112, Moderator

2011 AAO, Skills, LAB227B, Management of Vitreous for the Anterior Segment Surgeon (W110a), Course Instructor

2012 AAO, Skills, LAB, Management of Vitreous for the Anterior Segment Surgeon (N228), Course Instructor

2012 AAO Course #168, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (rm S103D). Course Instructor

2012 AAO Annual Meeting, Course 312 (rm S106A): Medical Ethics in the Hot Seat, Course Instructor

2012 AAO Annual Meeting, Course 413 (rm N427BC), Theory and Techniques of Corneal Surgery: An Interactive Course for Corneal Surgeons, Introduction and Overview of Global Burden of Corneal Blindness, Course Instructor

2012 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, B451, Hall A, Moderator

2013 AAO MOC Review Course, Cataract, Chicago, IL, July 19th, 2013

2013 AAO Annual Meeting, Course 220 (rm 217): The Institutional Review Board Submission Process: Why Should I Care and What if I Don't? Course 220, Course Instructor

2013 AAO, Skills, LAB106A, Management of Vitreous for the Anterior Segment Surgeon (W110a), Course Instructor

2013 AAO Course #335, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (rm 346-7). Course Instructor

2014 AAO, Skills, Vitrectomy Anterior Segment lab, Course Instructor

2015 ASCRS Course 2371: Pitfalls of the Cataract Surgery Mentor, Course Faculty

2015 ASCRS Course 2386: Pitfalls of the Novice Cataract Surgeon, Course Faculty

2015 ASCRS Course 2529: Cataract Outreach Quality Eye Surgery in Challenging Environments, Course Faculty

- 2015 ESCRS Course IC43, How to improve your refractive outcomes by skillful interpretation of corneal mapping, September 6th, 2015
- 2015 ESCRS Course IC54, Collagen Cross-linking: Indications, results, complications and evolving technology, September 6th, 2015
- 2015 ESCRS Wetlab 42, Lens Explantation Course, September 7th, 2015
- 2015 AAO Course #235, Keratoconus: The 2015 Protocol (Room: Marco Polo 706), Instructor, 11/15/2015
- 2015 AAO Course #290, Current Strategies for Management of Irregular Cornea (Room: Marco Polo 706), Instructor, 11/15/2015
- 2016 ASCRS Course 3804, Pitfalls of the Novice Cataract Surgeon, Course Faculty
- 2016 ASCRS Course 3685, 08-308, Pitfalls of the Cataract Mentor, Course Faculty
- 2017 ASCRS Course 09-104, Keratoprosthesis: New Models, Advances and Challenges, Course Faculty, May 9th, 2017
- 2017 ESCRS Wetlab, Keratoprosthesis assembly Course, October 8th, 2017 (Lisbon, Portugal)
- 2019 ASCRS Course, Keratoprosthesis in the Management of Corneal Blindness: An Update on Recent Advances, Expanding Indications, Challenging Cases and Improving Outcomes, Course Faculty, May 5th, 2019
- 2019 ESCRS Wet lab, Keratoprosthesis assembly Course, September 8th, 2019 (Paris, France)
- 2019 AAO Skill Lab, Course Faculty, DMEK Wet Lab, Mascone South 4, San Francisco, CA, October 13, 2019
- 2019 AAO Skill Lab, Course Faculty, Vitrectomy course, Mascone South 7, Lab 130, San Francisco, CA October 14, 2019
- 2019 AAO Course 621, Cataract Course: Surgery in Retinitis Pigmentosa, Mascone South 156, San Francisco, CA October 15, 2019

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 1991 National Board of Medical Examiners
- 1992- Massachusetts Medical License
- 1995 Diplomate, American Board of Ophthalmology, recertified 2005, 2015
- 1996- The Commonwealth of Massachusetts, Controlled Substances
- 1996- Controlled Substance Registration Certificate, Drug Enforcement Administration

Practice Activities

Ophthalmology (Cornea, Cataract, and Refractive Surgery)

Board-certified ophthalmologist with subspecialty training in cornea and external disease, and ocular trauma. Within this area of ophthalmology, my focus is in keratorefractive and cataract surgery

- 1996-2005 Ambulatory care/Surgery Ophthalmology, Refractive Surgery, Cataract, HVMA multiple sites 1-2 sessions per week (Director of Refractive Surgery)

1998-2002 Ambulatory care/Surgery Ophthalmology, Cornea, Cataract
7 sessions per week (Division Chief of Ophthalmology and Director of the Anterior Segment Fellowship/BWH)

1998-2011 Ambulatory care/Surgery Ophthalmology Cornea, Cornea Service at MEEI
8 sessions per week (Director of Refractive Surgery at MEEI)

Clinical Innovations

I was one of the first faculty members at the Massachusetts Eye and Ear Infirmary to utilize and teach clear cornea incision techniques, topical and intracameral anesthesia, and limbal relaxing incisions during cataract surgery. I have been a pioneer in bring new techniques and technology to MEEI and the New England region including conductive keratoplasty, Intacs with Intralase for keratoconus, and DLEK and DSEK (novel posterior lamellar corneal transplantation) and DALK (novel anterior lamellar corneal transplantation). Have recently introduced a new technique for corneal tattooing (submitted for publication) and developed new instruments for a technique we helped pioneer called DWEK.

Report of Technological and Other Scientific Innovations

Patents/Instrument

1. The Pineda LASIK Flap Iron from ASICO. Designed to assist in removing wrinkles and folds in the LASIK flap (1999)
2. The Pineda DWEK marker and forceps from ASICO. To aid in facilitating the DWEK procedure (2018)
3. The Pineda IOL Folding Wand and Forceps from Epsilon. To assist with IOL removal and exchange (2019)

Report of Education of Patients and Service to the Community

Activities

Educational Material for Patients and the Lay Community

(No educational materials below were sponsored by outside entities)

1. **Pineda II R.** Keratoconus Patient Information Sheet. Digital J Ophthalmol. 1996.
2. Audiovisual Material: Coping with Blindness (videocassette), MEEI Social Work; 1995.
3. Roque MR, Roque BL, Limbonsiong R, **Pineda II R.** Hyperopia and Presbyopia, Conductive Keratoplasty. eMedicine from WebMD (updated Sept 4th, 2013).
<http://emedicine.medscape.com/article/1222433-overview>
4. Roque MR, Roque BL, Limbonsiong R, **Pineda II R.** Myopia, Intracorneal Rings. eMedicine from WedMD (updated Sept 4th, 2013).
<http://emedicine.medscape.com/article/1221441-overview>
5. Roque MR, Limbonsiong R, Roque BL, **Pineda R.** Astigmatism, PRK. eMedicine from WebMD. Updated Feb 15th, 2012.
<http://emedicine.medscape.com/article/1220845-overview>
6. Invited Speaker, Corneal transplantation in MPS, 33rd Annual National MPS Society Family Conference, December 19-21, 2019, Orlando, FL, Hilton LBV

Recognition

2002	Listing in “Guide to America’s Top Ophthalmologists” by the Consumers’ Research Council of America (Washington, DC)
2004	Listing in “Guide to America’s Top Ophthalmologists” by the Consumer’s Research Council of America
2007	Best of Boston, Ophthalmology, Boston Magazine
2007-15	Best Doctors in America- 5% of all US Doctors
2009-11	Listing in “Guide to America’s Top Ophthalmologists” by the Consumers’ Research Council of America (Washington, DC)
2013	Doctor of Excellence, Leaders in Healthcare Network
2014	Top Doctor, Castle Connolly Medical LTD
2014	Listing in “Guide to America’s Top Ophthalmologists” by the Consumer’s Research Council of America
2015	Top Doctor, Castle Connolly Medical LTD
2017	Top Docs, Ophthalmology, Boston Magazine
2019	Top Docs, Ophthalmology, Boston Magazine
2019	Best Doctors in America List
2020	Top Docs, Ophthalmology, Boston Magazine

Report of Scholarship

Research Investigations

1. Summers CG, Purple RL, Krivit W, **Pineda II R**, Copland GT, Ramsey NKC, Kersey JH, Whitley CB; Ocular Changes in the Mucopolysaccharidoses after Bone Marrow Transplantation: A Preliminary Report. *Ophthalmology* 1989;96:977-985.
4. **Pineda II R**, Chan C-C, Ni M, Hayden B, Johnson MA, Chader GJ. Human Retinoblastoma Cells Express alpha B-Crystallin In Vivo and In Vitro. *Curr Eye Res* 1993; 12:239-245.
5. Kaiser PK, the Corneal Abrasion Patching Study Group. A Comparison of Pressure Patching versus No Patching for Corneal Abrasions due to Trauma or Foreign Body Removal. *Ophthalmology* 1995;102:1936-1942.
6. Kaiser PK, **Pineda R**. A Study of Topical Non-Steroidal Anti-Inflammatory Drops and No Pressure Patching in the Treatment of Corneal Abrasions. *Ophthalmology* 1997;104:1353-1359.
7. **Pineda II R**, Theodossiadis P, Gonzalez VH, Young LHY, Gragoudas E. Establishment of a Rabbit Model of Extrasccleral Extension of Ocular Melanoma. *Retina* 1998;18:368-372.
8. Wykoff CC, **Pineda R 2nd**. Myopic laser in situ keratomileusis in eyes with thick corneas. *J Cataract Refract Surg.* 2006 May;32(5):900-1.
9. Akpek EK, Harissi-Dagher M, Petracca R, Butrus SI, **Pineda R 2nd**, Aquavella JV, Dohlman CH. Outcomes of Boston keratoprosthesis in aniridia: a retrospective multicenter study. *Am J Ophthalmol.* 2007 Aug;144(2):227-231. Epub 2007 Jun4.

10. Dastjerdi MH, Al-Arfaj KM, Nallasamy N, Hamrah P, Jurkunas UV, **Pineda R 2nd**, Pavan-Langston D, Dana R. Topical bevacizumab in the treatment of corneal neovascularization: results of a prospective, open-label, noncomparative study. *Arch Ophthalmol*. 2009 Apr;127(4):381-9.
11. Moncaster JA, **Pineda R (co-first authors)**, Moir RD, Lu S, Burton MA, Ghosh JG, Ericsson M, Soscia SJ, Mocofanescu A, Folkerth RD, Robb RM, Kuszak JR, Clark JI, Tanzi RE, Hunter DG, Goldstein LE. Alzheimer's disease amyloid-beta links lens and brain pathology in Down syndrome. *PLoS One*. 2010 May 20;5(5):e10659.
12. Todani A, Ciolino JB, Ament JD, Colby KA, **Pineda R**, Belin MW, Aquavella JV, Chodosh J, Dohlman CH. Titanium back plate for a PMMA keratoprosthesis: clinical outcomes. *Graefes Arch Clin Exp Ophthalmol*. 2011 Apr 26. [Epub ahead of print]
13. Scarcelli G, Kling S, Quijano E, **Pineda R**, Marcos S, Yun SH. Brillouin microscopy of collagen crosslinking: noncontact depth-dependent analysis of corneal elastic modulus. *Invest Ophthalmol Vis Sci*. 2013 Feb 19;54(2):1418-25. doi: 10.1167/iovs.12-11387
14. Cade F, Cruzat A, Paschalis EI, Espirito Santo L, **Pineda R**. Analysis of four aberrometers for evaluating lower and higher order aberrations. *PLoS One*. 2013;8(1):e54990. doi: 10.1371/journal.pone.0054990. Epub 2013 Jan 22.
15. Scarcelli G, Besner S, **Pineda R**, Yun SH. Biomechanical characterization of keratoconus corneas ex vivo with Brillouin microscopy. *Invest Ophthalmol Vis Sci*. 2014 Jun 17;55(7):4490-5.
16. Scarcelli G, Besner S, **Pineda R**, Kalout P, Yun SH. In Vivo Biomechanical Mapping of Normal and Keratoconus Corneas. *JAMA Ophthalmol*. 2015 Jan 22. doi: 10.1001/jamaophthalmol.2014.5641.
17. Hong J, Shi W, Liu Z, **Pineda R**, Cui X, Sun X, Xu J. Limitations of Keratoplasty in China: A Survey Analysis. *PLoS One*. 2015 Jul 10;10(7):e0132268. doi:10.1371/journal.pone.0132268. eCollection 2015.
18. Rudnisky CJ, Belin MW, Guo R, Ciolino JB; Boston Type 1 Keratoprosthesis Study Group. Visual Acuity Outcomes of the Boston Keratoprosthesis Type 1: Multicenter Study Results. *Am J Ophthalmol*. 2015 Nov 10.
19. Applegate MB, Partlow BP, Coburn J, Marelli B, Pirie C, **Pineda R**, Kaplan DL, Omenetto FG. Photocrosslinking of Silk Fibroin Using Riboflavin for Ocular Prostheses. *Adv Mater*. 2016 Mar;28(12):2417-20. doi: 10.1002/adma.201504527. Epub 2016 Jan 29
20. Applegate MB, Partlow BP, Coburn J, Marelli B, Pirie C, **Pineda R**, Kaplan DL, Omenetto FG. Silk Fibroin: Photocrosslinking of Silk Fibroin Using Riboflavin for Ocular Prostheses (*Adv. Mater.* 12/2016). *Adv Mater*. 2016 Mar;28(12):2464.
21. Besner S, Scarcelli G, **Pineda R**, Yun SH. In vivo Brillouin analysis of the aging crystalline lens. *Invest Ophthalmol Vis Sci*. 2016 Oct 1;57(13):5093-5100. doi: 10.1167/iovs.16-20143

22. Jowett N, **Pineda II R**. Corneal neurotisation by great auricular nerve transfer and scleral-corneal tunnel incisions for neurotrophic keratopathy. *Br J Ophthalmol*. 2018 Nov 23. PMID: 30470713.
23. Shao P, Eltony AM, Seiler TG, Tavakol B, **Pineda R**, Koller T, Seiler T, Yun SH. Spatially-resolved Brillouin spectroscopy reveals biomechanical abnormalities in mild to advanced keratoconus in vivo. *Sci Rep*. 2019 May 16;9(1):7467. PMID: 31097778
24. Eltony AM, Clouser F, Shao P, **Pineda R 2nd**, Yun SH. Brillouin Microscopy Visualizes Central Corneal Edema in Fuchs Endothelial Dystrophy. *Cornea*. 2019 Oct 24. PMID: 31658170

Other Peer-reviewed Publications

1. Kaiser PK, **Pineda R**, Albert DM, Shore JW. 'Black Cornea' After Long-term Epinephrine Use. *Arch Ophthalmol*. 1992;110:1273-1275.
2. Remulla JFC, **Pineda R**, Milam AH, Gaudio AR. Cutaneous Melanoma-Associated Retinopathy with Retinal Periphlebitis. *Arch Ophthalmol*. 1995; 113:854-5.
3. **Pineda II R**, Urban Jr RC, Bellows AR, Jakobiec FA. Ciliary Body Neurilemoma: Unusual Clinical Findings Intimating the Diagnosis. *Ophthalmology* 1995;102:918-923.
4. Johnson SM, Cheng HM, **Pineda R**, Netland PA. Magnetic resonance imaging of cyclodialysis clefts. *Graefes Arch Clin Exp Ophthalmol* 1997;235:468-471
5. **Pineda R**, Talamo JH. Late-onset haze following PRK associated with viral keratoconjunctivitis. *J Refract Surg* 1998;14:147-151.
7. Uy HS, **Pineda II R**, Shore JW, Polcharoen W, Jakobiec FA, Foster CS. Hypertrophic discoid lupus erythematosus of the conjunctiva. *Am J Ophthalmol*. 1999;127(5):604-605.
8. Johnson JD, Harissi-Dagher M, **Pineda R**, Yoo S, Azar DT. Diffuse lamellar keratitis: Incidence, associations, outcomes, and a new classification system. *J Cataract Refract Surg*. 2001 Oct;27(10):1560-6.
9. Acharya N, **Pineda R 2nd**, Uy HS, Foster CS. Discoid lupus erythematosus masquerading as chronic blepharoconjunctivitis. *Ophthalmology*. 2005 May;112(5):e19-23.
10. Mian SI, Gupta A, **Pineda R 2nd**. Corneal Ulceration and Perforation with Ketorolac Tromethamine (Acular®) Use After PRK. *Cornea* 2006 Feb;25(2):232-234.
11. De la Cruz J, Behlau I, **Pineda R**. Atypical mycobacteria keratitis after laser in situ keratomileusis unresponsive to fourth-generation fluoroquinolone therapy. *J Cataract Refract Surg* 2007 Jul;33(7):1318-21.

12. Montezuma S, Lessell S, **Pineda R**. Optic Neuropathy after Epi-LASIK. *J Refract Surg*. 2008 Feb;24(2):204-8. Epub 2007 Sept.
13. Kocaturk T, **Pineda R**, Green LK, Azar DT. Post-LASIK Epithelial Dendritic Defect Associated with *Alternaria*. *Cornea* 2007 Oct;26(9):1144-1146.
14. **Pineda R**, Kocaturk T, Bhui RD. Visual Outcome and Rehabilitation in a Case of Bilateral *Acanthamoeba Sclerokeratitis*. *Cornea* 2007 Oct;26(9):1150-1152.
15. Thiagalingam S, Tarongoy P, Hamrah P, Lobo AM, Nagao K, Barsum C, Bellows R, **Pineda R**. Complications of Cosmetic Iris Implants. *J Cataract Refract Surg*. 2008 Jul;34(7):1222-4.
16. Afshari NA, Ma JK, Duncan SM, **Pineda R**, Starr CE, Francis DeCroos FC, Johnson CS, Afshari Adelman R. Trends in Resistance to Ciprofloxacin, Cefazolin, and Gentamicin in the Treatment of Bacterial Keratitis. *J Ocul Pharmacol Ther*. 2008 Apr;24(2):217-23.
17. Jain V, **Pineda R**. Reactivated herpetic keratitis following laser in situ keratomileusis. *J Cataract Refract Surg*. 2009 May;35(5):946-8.
18. **Pineda R 2nd**, Jain V, Shome D, Hunter DC, Natarajan S. Descemet's stripping endothelial keratoplasty: is it an option for congenital hereditary endothelial. *Int Ophthalmol*. 2009 Jul 19. [Epub ahead of print]
19. **Pineda R**, Jain V. Arcuate Keratotomy: An Option for Astigmatism Correction After Laser In Situ Keratomileusis. *Cornea*. 2009 Aug 31. [Epub ahead of print]
20. Jakobiec FA, **Pineda R**, Rivera R, Hsu-Winges C, Cherwek D. Epicorneal Polypoidal Lipodermoid: Lack of Association of Central Corneal Lesions with Goldenhar Syndrome Verified with a Review of the Literature. *Surv Ophthalmol*. 2009 Sept 25 [Epub ahead of print]
21. **Pineda, Roberto II**; Shiuey, Yichieh. The KeraKlear Artificial Cornea: A Novel Keratoprosthesis. *Tech Ophthalmology*. 2009;7(3);101-104.
22. Mira Lim; **Roberto Pineda**. Therapeutic Keratoplasty with the Femtosecond Laser. *Contemporary Ophthalmology*. 2010;9(10);1-8. January 15th, 2010.
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Clinical Guidelines and Reports

1. The Boston Keratoprosthesis: International Protocol (Version 2, June 15, 2009)
 - a. Clinical Protocol
 - b. http://www.masseyeandear.org/gedownload!/KPro%20International%20Protocol2.pdf?item_id=5816015
 - c. This protocol is used internationally as a guideline to help cornea surgeons systematically approach selection of patients and postoperative monitoring of the Boston Keratoprosthesis. I was instrumental in creating, formatting and updating Versions 1 and 2. Version 3 is under revision currently.

Abstracts or Posters

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2nd place winner poster contest

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19. Ricardo Nose, MD; **Roberto Pineda, MD**; Walton Nosé, MD, PhD.
ASCRS Paper ID 57882
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Management of the Insensate Cornea Following Vestibular Schwannoma Resection: Corneal Neurotization by Great Auricular Nerve Transfer for Neurotrophic Keratopathy
8th Quadrennial International Conference on Vestibular Schwannoma and Other CPA Tumors, Mayo Clinic, Rochester, MN, USA June, 2019

NARRATIVE REPORT

I am a board-certified ophthalmologist with training in cornea, external disease, refractive surgery, and ocular trauma. My main areas of focus are refractive surgery, cornea and cataract surgery. Previously, I was the Division Chief of Ophthalmology at the Brigham and Womens Hospital and Director of the Anterior Segment Fellowship as well as Director of Refractive Surgery for Harvard Vanguard Medical Associates which I helped to establish in 1996. I was Director of Refractive Surgery on the Cornea Service at MEEI from 2007 until 2017, and serve on the American Academy of Ophthalmology's Ethics Committee and the Practicing Ophthalmology Committee (POC), Cataract Section. I regularly teach and lecture at our national meetings.

Approximately 90% of time is spent in clinical patient care. About 20% of these patients are seen for refractive surgery. The other 80% of patients are evaluated for cornea and external disease problems, or complex cataract and anterior segment cases. Most of these patients are complex and referred for second or third opinions, or re-operations. I have often been referred to as the “doctor’s doctor” operating on many of the HMS faculty and their families. Additionally, I have undertaken an international role, helping to introduce the Boston keratoprosthesis (artificial cornea). I have established two longitudinal clinical sites in Ethiopia and Sudan under an international protocol (available on the MEEI website) to evaluate the viability of these devices. Global medicine is an important part of my practice. I sit on the fellowship committee of the International Council of Ophthalmology (ICO) and administer an ICO fellowship at MEEI and serve as a Board Member of Visionaries International, a non-profit organization whose aim is to train corneal surgeons in developing countries. Regularly, I participate with ORBIS International (www.orbis.org), educating ophthalmologist on the latest surgical techniques.

I was the first faculty at MEEI to utilize clear cornea incision techniques, topical and intracameral anesthesia, and limbal relaxing incisions during cataract surgery. I have been a pioneer in bringing new techniques and technology to MEEI and the New England region including conductive keratoplasty, Intacs with Intralase for keratoconus and DLEK, DSEK, and DALK (novel lamellar corneal transplantation). I have been involved in many trials for both corneal and refractive surgery. Currently, I am working on a Brillouin confocal microscope for the cornea and lens to analyze the physiologic properties of these structures and have recently authored a paper in IOVS and Ophthalmology on the subject. I have major teaching responsibilities which include the HMS medical students, MEEI ophthalmology residents and cornea fellows and regularly work with them in the clinic and operating room.

I received the **1997** Teacher of the Year Award, Department of Ophthalmology, MEEI, the **2000** Partners in Excellence Award- United Arab Emirates Project Team, the **2001** Medical Staff Recognition Award, MEEI. In **2002**, I received the American Academy of Ophthalmology’s Achievement Award and in **2014** I received the American Academy of Ophthalmology’s Senior Achievement Award. I have also been named Best of Boston, Ophthalmology by Boston Magazine and Best Doctors in America.

I have made major contributions to the Department in teaching, clinical expertise, administrative roles and research. Clinical expertise and innovation have been my principal contributions as outlined in the above statements.