

Curriculum Vitae

Agnes Ming-Fong Wong
MD, PhD, FRCSC

A. Date of Preparation: October 22, 2016

B. Biographical Information

Primary Office Department of Ophthalmology and Vision Sciences
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1. ACADEMIC BACKGROUND

Degrees

1998 - 2001 PhD, Collaborative Program in Neuroscience, University of Toronto, Ontario, Canada,
Supervisor(s): Dr. James Sharpe and Dr. Douglas Tweed

1990 - 1994 MD, CM, McGill University, Montréal, Quebec, Canada

1986 - 1990 BA (Summa Cum Laude with Distinction), Psychology and Biology, Boston University,
Massachusetts, United States

Postgraduate, Research and Specialty Training

2001 - 2002 Clinical Fellowship in Pediatric Ophthalmology and Strabismus, Washington University
School of Medicine, St. Louis, Missouri, United States, Supervisor(s): Dr. Lawrence Tychsen

1998 - 2001 Clinical Fellowship in Neuro-Ophthalmology, University of Toronto, Ontario, Canada,
Supervisor(s): Dr. James Sharpe

1998 - 2001 Clinician Investigator Program, Royal College of Physicians and Surgeons of Canada and
University of Toronto, Ontario, Canada

1994 - 1999 Residency in Ophthalmology, University of Toronto, Ontario, Canada

Qualifications, Certifications and Licenses

2002 - present Diplomate, American Board of Ophthalmology (Dip ABO), United States

2001 - present Missouri State Board of Registration for the Healing Art

1999 - present Certificate of Registration for Independent Practice, The College of Physicians and Surgeons
of Ontario, Canada

1999 - present Fellow, Royal College of Surgeons of Canada (FRCSC)

1996 - present Licentiate, Medical Council of Canada (LMCC)

2. EMPLOYMENT HISTORY

2.1 Current Appointments

UNIVERSITY - RANK

2011 - present Professor, Department of Ophthalmology and Vision Sciences, University of Toronto, Ontario, Canada

UNIVERSITY - CROSS APPOINTMENT

2012 - present Adjunct Professor, Department of Ophthalmology and Visual Sciences, Washington University in St. Louis, St. Louis, Missouri, United States

2012 - present Professor, Department of Psychology, Faculty of Arts and Science, University of Toronto, Toronto, Ontario, Canada

2011 - present Professor, Division of Neurology, Dept of Medicine, University of Toronto, Ontario, Canada

2011 - present Professor, Department of Otolaryngology – Head & Neck Surgery, University of Toronto, Toronto, Ontario, Canada

2007 - present Adjunct Professor, Biology, Faculty of Graduate Studies, York University, Toronto, Ontario, Canada

2005 - present Member, Institute of Medical Science, University of Toronto, Ontario, Canada

RESEARCH

2010 - present Senior Scientist, The Hospital for Sick Children Research Institute, Toronto, Ontario, Canada

2009 - present Senior Scientist, Toronto Western Research Institute, University Health Network, Toronto, Ontario, Canada

2004 - present Director, Eye Movement and Vision Neurosciences Laboratory, The Hospital for Sick Children, Toronto, Ontario, Canada

HOSPITAL

2013 - present Ophthalmologist-in-Chief, Department of Ophthalmology and Vision Sciences, The Hospital for Sick Children, Toronto, Ontario, Canada

2002 - present Staff Physician, Department of Ophthalmology and Vision Sciences, The Hospital for Sick Children, Toronto, Ontario, Canada

2002 - present Staff Physician, Department of Ophthalmology, University Health Network – Toronto Western Hospital, Toronto, Ontario, Canada

2.2 Previous Appointments

UNIVERSITY - RANK

2006 - 2011 Associate Professor, Department of Ophthalmology and Vision Sciences, University of Toronto, Ontario, Canada

2002 - 2006 Assistant Professor, Department of Ophthalmology and Vision Sciences, University of Toronto, Ontario, Canada

UNIVERSITY - CROSS APPOINTMENT

2007 - 2012 Adjunct Associate Professor, Department of Ophthalmology and Visual Sciences, Washington University in St. Louis, St. Louis, Missouri, United States

2006 - 2011 Associate Professor, Division of Neurology, Dept of Medicine, University of Toronto, Ontario, Canada

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2006 - 2011 Associate Professor, Department of Otolaryngology – Head & Neck Surgery, University of Toronto, Toronto, Ontario, Canada

2005 - 2006 Assistant Professor, Department of Otolaryngology – Head & Neck Surgery, University of Toronto, Toronto, Ontario, Canada

2002 - 2007 Adjunct Assistant Professor, Department of Ophthalmology and Visual Sciences, Washington University in St. Louis, St. Louis, Missouri, United States

2002 - 2006 Assistant Professor, Division of Neurology, Dept of Medicine, University of Toronto, Ontario, Canada

2002 - 2005 Associate Member, Institute of Medical Science, University of Toronto, Ontario, Canada

RESEARCH

2004 - 2010 Scientist, The Hospital for Sick Children Research Institute, Toronto, Ontario, Canada

2002 - 2009 Scientist, Toronto Western Research Institute, University Health Network, Toronto, Ontario, Canada

2002 - 2004 Associate Scientist, The Hospital for Sick Children Research Institute, Toronto, Ontario, Canada

3. HONOURS AND CAREER AWARDS

3.1 Distinctions and Research Awards

INTERNATIONAL

2014 **Achievement Award**, American Academy of Ophthalmology

2003 **Young Investigator Award**, North American Neuro-Ophthalmology Society
“In recognition of total body of work as a Neuro-Ophthalmic investigator”.

2003 **Young Investigator Award (Inaugural)**, American Association of Pediatric Ophthalmology and Strabismus
“To acknowledge research in pediatric ophthalmology and strabismus by a young promising investigator”.

2002 **ARVO Travel Grant Award**, Association for Research in Vision and Ophthalmology

2001 **The Herman Knapp Fellowship**, American Ophthalmological Society
Total Amount: 20,000 USD

2000 **Resident / Fellow Award**, North American Neuro-Ophthalmology Society

2000 **Paul Kayser International Scholarship**, Pan-American Ophthalmological Foundation
Total Amount: 3,000 USD

1998 **Certificate of Recognition**, Association of University Professors of Ophthalmology

1998 **Travel Grant Award**, Association of University Professors of Ophthalmology
Total Amount: 2,000 USD

NATIONAL

2008 - 2010 **Honorary President**, Canadian Orthoptic Society

2002 - 2007 **New Investigator Award**, Canadian Institutes of Health Research (CIHR)
over 5 years (MSH 55058). Total Amount: 250,000

2001 **Detweiler Traveling Fellowship**, Royal College of Physicians and Surgeons of Canada
Total Amount: 21,000 CAD

1999 **E. A. Baker Foundation Fellowship**, Canadian National Institute for the Blind
Total Amount: 80,000

1997 **Travel Grant Award**, Sherbrooke Symposium, Medical Research Council of Canada
Total Amount: 500

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- 1994 **Dr. William Logie Prize in Medical Ethics**, Canadian Medical Association Journal
- 1993 **Travel Grant Award**, Medical Research Council of Canada and Pharmaceutical Manufacturers Association of Canada
Total Amount: 1,000
- 1992 **Health Research Foundation Summer Research Scholarship**, Medical Research Council of Canada and Pharmaceutical Manufacturers Association of Canada
Total Amount: 3,680
- 1991 **National Award Exchange Program Scholarship**, Medical Research Council of Canada
Total Amount: 3,680

PROVINCIAL

- 2006 **Early Researcher Award**, Ontario Ministry of Research and Innovation
"To acknowledge, attract and retain the best and brightest research talent in high-priority economic areas".
- 1992 **Scholarship for Health Science Research**, Fonds de la recherche en santé du Québec
(Dossier No. 921401-03). Total Amount: 3,000
- 1999 **Ontario Graduate Scholarship**
(Declined). Total Amount: 12,000

REGIONAL

- 1990 **Certificate of Merit Award**, Massachusetts Psychological Association

LOCAL

- 2008 - present **John and Melinda Thompson Chair in Vision Neurosciences**, The Hospital for Sick Children and University of Toronto
- 2000 **Vision Science Research Program Scholarship**, University of Toronto
Total Amount: 58,000
- 2000 **John Gaby Research Prize**, Department of Ophthalmology, University of Toronto.
(Research Award)
- 2000 **T-Holders Academic Excellence Award**, University of Toronto
- 1999 **James and Hanna Inglee Memorial Research Fund**, Faculty of Medicine, University of Toronto
Total Amount: 4,000
- 1999 **Edward Christie Stevens Fellowship in Medicine**, Faculty of Medicine, University of Toronto
Total Amount: 4,000
- 1998 **Percy Hermant Award**, Department of Ophthalmology, University of Toronto
- 1997 **University of Toronto Alumni Prize**, Department of Ophthalmology, University of Toronto
- 1993 **Faculty of Medicine Award**, McGill University
- 1993 **Dr. Maude E. Seymour Abbott Scholarship**, Faculty of Medicine, McGill University
Total Amount: 2,600
- 1992 **Dr. David T. W. Lin Foundation Scholarship**, Faculty of Medicine, McGill University
Total Amount: 2,600
- 1992 **Merck Sharp and Dohme Award**, Faculty of Medicine, McGill University
- 1991 **CIBA-GEIGY Award**, Faculty of Medicine, McGill University
- 1990 **Summer Research Scholarship**, Harvard University School of Medicine and the Massachusetts Mental Health Centre
Total Amount: 800 USD

3.2 Teaching Awards

NATIONAL

- 2014 **TORIC Top Teacher Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by PGY1 Ophthalmology residents from across Canada for the Top Teacher in the Toronto Ophthalmology Residency Introductory Course (TORIC).
- 2012 **Dr. Fred Feldman Teaching Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by PGY1 Ophthalmology residents from across Canada for the Best Teacher in the Toronto Ophthalmology Residency Introductory Course.
- 2010 **Dr. Fred Feldman Teaching Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by PGY1 Ophthalmology residents from across Canada for the Best Teacher in the Toronto Ophthalmology Residency Introductory Course.
- 2007 **Dr. Fred Feldman Teaching Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by PGY1 Ophthalmology residents from across Canada for the Best Teacher in the Toronto Ophthalmology Residency Introductory Course.
- 2005 **Dr. Fred Feldman Teaching Award (Inaugural)**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by PGY1 Ophthalmology residents from across Canada for the Best Teacher in the Toronto Ophthalmology Residency Introductory Course.

PROVINCIAL

- 2005 **PAIRO Excellence in Clinical Teaching Awards (nominated)**
Nominated by the Professional Association of Internes and Residents of Ontario (PAIRO) for teaching excellence.

LOCAL

- 2013 **J.D. Morin Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by Ophthalmology residents for a teacher who makes the most contribution to enhancing their training experience.
- 2012 **The J.S. Crawford Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by Ophthalmology residents for the ophthalmologist who excels in surgery, research, sports, and character.
- 2010 **Distinguished Teacher Award**, Department of Ophthalmology and Vision Sciences, and Division of Neurology, University of Toronto. (Postgraduate MD)
Awarded by the residents of Neurology and Ophthalmology, and Fellows in Neuro-Ophthalmology in recognition of her outstanding teaching and student motivation in the field of Neuro-Ophthalmology at the University Health Network between 2002-2010.
- 2007 **Resident Teaching Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by Ophthalmology residents in honour of the Best Teacher in Ophthalmology.
- 2006 **Resident Teaching Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by Ophthalmology residents in honour of the Best Teacher in Ophthalmology.
- 2005 **Resident Teaching Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)

Selected by Ophthalmology residents in honour of the Best Teacher in Ophthalmology.

- 2003 **J.D. Morin Award**, Department of Ophthalmology and Vision Sciences, University of Toronto. (Postgraduate MD)
Selected by Ophthalmology residents for a teacher who makes the most contribution to enhancing their training experience.

3.3 Student/Trainee Awards

INTERNATIONAL

- 2016 **James A. Sharpe Award for the Best Fellow Paper**, Supervisor, Awardee Name: Dr. Michael Richards (fellow). 42nd Annual North American Neuro-ophthalmology Society (NANOS) Meeting
- 2014 **SfN Postdoctoral Fellow Travel Award**, Supervisor, Awardee Name: Dr. Inna Tsirlin (PhD postdoctoral fellow). Society for Neuroscience (SfN)
- 2009 **ARVO International Travel Grant Award**, Supervisor, Awardee Name: Dr. Kim Le (medical student). Association for Research in Vision and Ophthalmology (ARVO)
- 2008 **Best Student Paper**, Supervisor, Awardee Name: Dr. Matt Schlenker (medical student). 34th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting
- 2006 **Best Student Paper**, Supervisor, Awardee Name: Dr. Michael Richards (medical student). 32nd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting
- 2005 **Gold Award, Pfizer Film Festival for surgical technique and medical cases**, Supervisor, Awardee Name: Dr. Shuan Dai (fellow). Royal Australian and New Zealand College of Ophthalmologists (RANZCO) Meeting
- 2004 **Best Fellow Award (Inaugural)**, Supervisor, Awardee Name: Dr. Margaret Wong (fellow). Frank B. Walsh Session of the 30th Annual North American Neuro-ophthalmology Society (NANOS) Meeting

NATIONAL

- 2010 **Third Prize (Clinical Research Section), The 2nd Canadian National Medical Student Research Symposium**, Supervisor, Awardee Name: Dr. Kay Lam (medical student). Canadian Federation of Medical Students
- 2009 **First Prize, COS Award for Excellence in Ophthalmic Research**, Supervisor, Awardee Name: Dr. Kay Lam (medical student). Canadian Ophthalmological Society (COS) Annual Meeting 2009
- 2006 **Best Research Paper**, Supervisor, Awardee Name: Dr. Leo Sin (medical student). Annual Meeting of the Canadian Association of Pediatric Ophthalmologists
- 2004 **Best Research Paper**, Supervisor, Awardee Name: Dr. Kylen McReelis (resident). Canadian Neuro-Ophthalmology Society Meeting

LOCAL

- 2016 **Best Vision Science Research Program (VSRP) Student Paper**, Supervisor, Awardee Name: Michael Richards (MSc student). 58th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2015 **Best Poster Presentation**. Supervisor, Awardee Name: Ivy Liu. The Hospital for Sick Children Summer Research Program.
- 2014 **Reva Gerstein Endowment Fund Award**, Supervisor, Awardee Name: Dr. Inna Tsirlin (PhD postdoctoral fellow). The Hospital for Sick Children
- 2014 **Research Training Centre Fellowship Funding**, Supervisor, Awardee Name: Dr. Inna Tsirlin (PhD postdoctoral fellow). The Hospital for Sick Children
- 2014 **P. K. Basu Graduate Scholar Award for Vision Health Research**, Awardee Name: Dr.

- 2014 Shaobo Lei (MSc student). University of Toronto
Vision Science Research Scholarship Program, Awardee Name: Dr. Shaobo Lei (MSc student). University of Toronto
- 2014 **First Prize, Alan Wu Poster (Clinical Sciences) Competition**, Institute of Medical Science Scientific Day. Supervisor, Awardee Name: Jaime Sklar (MSc student). Institute of Medical Science, University of Toronto
- 2013 **Vision Science Research Scholarship Program**, Awardee Name: Jaime Sklar (MSc student). University of Toronto
- 2012 **First Prize, Summer Undergraduate Research Program**, Supervisor, Awardee Name: Sean Kennedy. Institute of Medical Science, University of Toronto
- 2012 **Best Vision Science Research Program (VSRP) Student Paper**, Supervisor, Awardee Name: Rana Arham Raashid (MSc student). 54th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2011 **Best Student Paper**, Supervisor, Awardee Name: Dr. Ewa Niechwiej-Szwedo (PhD postdoctoral fellow). 53rd Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2010 **Restracomp Award**, Supervisor, Awardee Name: Dr. Ewa Niechwiej-Szwedo (PhD postdoctoral fellow). The Hospital for Sick Children
- 2010 **Best Student Paper**, Supervisor, Awardee Name: Dr. Kay Lam (medical student). 52nd Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2009 **Best Fellow Paper**, Supervisor, Awardee Name: Dr. Filomeno Cortese (PhD postdoctoral fellow). 51st Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2009 **Best Student Paper**, Supervisor, Awardee Name: Dr. Kim Le (medical student). 51st Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2008 **Best Student Paper**, Supervisor, Awardee Name: Dr. Matt Schlenker (medical student). 50th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2007 **Best Student Paper**, Supervisor, Awardee Name: Dr. Michael Richards (medical student). 49th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2007 **George Brown Award (Best paper in Clinical Science)**, Supervisor, Awardee Name: Dr. Michael Richards (medical student). The 21st Medical Students Research Day, University of Toronto
- 2006 **Best Student Paper**, Supervisor, Awardee Name: Dr. Michael Richards (medical student). 48th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2005 **Best Student Paper**, Supervisor, Awardee Name: Dr. Maryam Fesharaki (MSc student). 47th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto
- 2003 **Alumni Award (Best Resident Paper)**, Supervisor, Awardee Name: Dr. Kylene McReelis (resident). 46th Annual Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

4.1 Professional Associations

- 2011 - present **Member**, Canadian Society for Brain, Behaviour and Cognitive Science
- 2010 - present **Member**, Vision Sciences Society

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2006 - present	Member , Center for Vision Research, York University, Toronto, Ontario, Canada
2006 - present	Member , The Bárány Society
2005 - present	Fellow , North American Neuro-Ophthalmological Society
2003 - present	Member , American Association of Pediatric Ophthalmology and Strabismus
2003 - present	Member , Canadian Association of Pediatric Ophthalmologists
2002 - present	Member , Society for Neuroscience
1997 - present	Member , American Academy of Ophthalmology
1995 - present	Member , Canadian Ophthalmological Society
1994 - present	Member , Ontario Medical Association
1993 - present	Member , Association of Research in Vision and Ophthalmology
1999 - 2005	Member , North American Neuro-Ophthalmological Society

4.2 Professional Activities

INTERNATIONAL

North American Neuro-Ophthalmology Society (NANOS)

2012 - 2014	Member , Scientific Program Subcommittee
2009 - 2012	Member , Nominating Committee
2006 - 2012	Member , Pilot Grant Award Subcommittee
2003 - 2012	Chair , Young Investigator Award Subcommittee
2002 - 2012	Member , Research Committee
2009 - 2012	Member , Board of Directors
2009	Member , (Ad hoc) Long Range Planning Committee
2008 - 2009	Co-Chair , Pediatric Eye Movement Disorders Symposium
2007	Moderator , Scientific Platform Presentations
2004 - 2012	Member , Abstract Committee
2004 - 2006	Member , Scientific Program Committee
2003 - 2004	Co-Chair , Ocular Motility Symposium

The Association for Research in Vision and Ophthalmology (ARVO)

2010 - 2011	Chair , Annual Meeting Program Committee
2008 - 2011	Moderator , Papers and Posters Sessions
2008 - 2010	Member , Annual Meeting Program Committee

International Society for Eye Research (ISER) Biennial Meeting 2010

2009 - 2010	Co-Chair , "Amblyopia and Strabismus" section
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American Association of Pediatric Ophthalmology and Strabismus (AAPOS)

2006 - 2010	Member , Research and Children's Eye Foundation (CEF) Medical Advisory Committee
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Other Organizations

2016	External Reviewer , The Scheie Eye Institute, Department of Ophthalmology at the University of Pennsylvania, USA.
2008 - 2009	Chair , Practical Pearls in Neuro-Ophthalmology, Ontario, Canada. <i>An International Symposium in Honour of Dr. James Sharpe.</i>

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NATIONAL

Canadian Neuro-Ophthalmology Society

2008 - 2009 **Co-Chair**, Program Committee

LOCAL

University of Toronto

2012 - present **Vice Chair**, Research and Academic Affairs, Department of Ophthalmology and Vision Sciences

2012 - present **Member**, Vision Science Research Program (VSRP) Adjudicating Committee

2012 - 2016 **Chair**, Appointment Committee, Department of Ophthalmology and Vision Sciences

2011 - present **Member**, Promotion Committee, Department of Ophthalmology and Vision Sciences

2005 - present **Chair**, Annual Departmental Faculty Research Day, Department of Ophthalmology and Vision Sciences

2004 - 2011 **Head**, Neuroscience Section of the Toronto Ophthalmology Residency Introductory Course

2002 - present **Member**, Research Committee, Department of Ophthalmology and Vision Sciences

2011 **Member**, Advisory Committee for the Appointment of Chair, Dept. of Ophthalmology and Vision Sciences, (Ad hoc)

2010 **Member**, Scientific Program Committee, Walter Wright Day, Department of Ophthalmology and Vision Sciences

2008 - 2011 **Member**, Faculty of Medicine Faculty Council

2008 **Reviewer**, Laidlaw manuscript competition (graduate students), Institute of Medical Science

2006 **Member**, Search Committee for Chair in Ophthalmology, (Ad hoc)

2003 - 2012 **Chair**, Annual Departmental Research Day, Department of Ophthalmology and Vision Sciences

2003 - 2012 **Director**, Residents Research, Department of Ophthalmology and Vision Sciences

2003 - 2006 **Member**, Student Awards Committee, Institute of Medical Science

2002 - 2012 **Member**, Postgraduate Education Committee, Department of Ophthalmology and Vision Sciences

2002 - 2005 **Member**, Scientific Program Committee, Walter Wright Day, Department of Ophthalmology and Vision Sciences

2002 - 2004 **Member**, Promotion Committee, Department of Ophthalmology and Vision Sciences

2002 - 2003 **Co-Director**, Residents Research, Department of Ophthalmology and Vision Sciences

2002 - 2003 **Co-Chair**, Annual Departmental Research Day, Department of Ophthalmology and Vision Sciences

2002 - 2003 **Member**, Resident Admissions Committee, Department of Ophthalmology and Vision Sciences

The Hospital for Sick Children

2016 - present **Member**, International Advisory Council—Asia, SickKids International

2013 - present **Member**, Perioperative Services Chiefs Committee

2013 - present **Member**, Medical Advisory Committee

2013 - present **Member**, Quality Management Committee

2010 - 2013 **Chair**, Academic Research Fund Committee, Department of Ophthalmology and Vision Sciences

2003 - 2011 **Co-Chair**, Education Committee, Department of Ophthalmology and Vision Sciences

2003 - present **Member**, Fellows Selection Committee, Department of Ophthalmology and Vision Sciences

2010 **Chair**, Program Committee, *The 21st Jack Crawford Day*.

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2009 **Member**, Search Committees for Neuro-Ophthalmology and General Pediatric Ophthalmology Positions, Department of Ophthalmology and Vision Sciences, (Ad hoc)

2007 - 2012 **Chair**, Residents Evaluation Committee, Department of Ophthalmology and Vision Sciences

2007 - 2009 **Member**, Academic Research Fund Committee, Department of Ophthalmology and Vision Sciences

2007 **Member**, Five-year Review Committee of the Department of Ophthalmology and Vision Sciences, (Ad hoc)

2006 - 2007 **Member**, Medical Staff Committee

2006 **Member**, Program Head Selection Committee for Neuroscience and Mental Health Program, The Hospital for Sick Children Research Institute (Ad hoc), Toronto.

2003 **Co-Chair**, Scientific Committee (ad hoc)
The First Eye Movement Symposium: A Tribute to J. Raymond Buncic.

4.3 Peer Review Activities

ASSOCIATE OR SECTION EDITING

Editor

2010 - 2013 Associate Editor, Journal of Neuro-Ophthalmology

2007 - 2013 Section Editor (Neuro-Ophthalmology), Canadian Journal of Ophthalmology

EDITORIAL BOARDS

Editor

2003 - 2014 Member, Strabismus

GRANT REVIEWS

Grant Committee Reviewer

2012 Canadian Institutes of Health Research (CIHR) Behavioral Science – C

2008 Canadian Institutes of Health Research (CIHR) Clinical Investigation – A

2007 Canadian Institutes of Health Research (CIHR) Clinical Investigation – A

External Grant Reviewer

2006 - present Leaders Opportunity Fund (LOF) College of Reviewers, Canada Foundation for Innovation

2009 Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant

2005 Canadian Foundation for Innovation Leaders Opportunity Fund

2004 Swiss National Science Foundation

2003 Austrian Science Fund

Internal Grant Reviewer

2008 - present The Hospital for Sick Children Research Institute

MANUSCRIPT REVIEWS

Reviewer

British Journal of Ophthalmology

Expert Review of Ophthalmology

Investigative Ophthalmology and Visual Science

Archives of Ophthalmology

Neuro-Ophthalmology

Strabismus

Movement Disorders
Canadian Journal of Ophthalmology
Clinical and Experimental Ophthalmology
Vision Research
Survey of Ophthalmology
Journal of Neuro-Ophthalmology
Brain
Journal of AAPOS

4.4 Leadership and Administrative Development Activities

2016	“Self-awareness and Effective Leadership”, Physician Leadership Institute, Canadian Medical Association, Toronto.
2016	“Leadership Strategies for Sustainable Physician Engagement”, Physician Leadership Institute, Canadian Medical Association, Toronto.
2013	“Creating flow in the Ambulatory Setting” workshop. Virginia Mason Institute, Seattle, USA.
2013	“Fundamentals of Lean Six Sigma”. Continuous Improvement Program Yellow Belt Training, The Hospital for Sick Children.
2012 - 2013	“The Hospital for Sick Children: Partners in Leadership Program”. Rotman School of Management, University of Toronto.

C. Academic Activities

1. RESEARCH STATEMENT

I am a clinician-scientist who spends 80% of my time in research and 20% of my time in clinical work. The primary goal of my research is to understand neuroplasticity, the fundamental dynamic processes that allow the brain to adapt to inputs from, and changes in, the environment. I investigate the neuroplasticity in the developing and mature visual system in normal and diseased states. I am particularly interested in understanding the brain mechanisms that cause abnormal eye movements, strabismus (eye misalignment), and amblyopia (lazy eye), as well as how to treat these diseases. My laboratories use a variety of techniques, including anatomic, behavioural, psychophysical, and neuroimaging methods, to investigate how the normal brain functions and how these brain functions change in the diseased state. Current projects include:

1. Lazy Eye (Amblyopia) is a visual impairment of one eye caused by inadequate use during early childhood; it cannot be corrected by prescription glasses. It is the most common cause of visual impairment in one eye in the western world, and affects about 4% of the general population. Although tremendous amount of resources are spent on preventing and treating lazy eye, approximately 50% of children do not respond to therapies, and thus, many patients with lazy eye continue to have abnormal vision throughout their adult lives. Our goal is to understand how lazy eye affects the visual brain and to find a cure for it. Specifically, our research aims to answer four major questions: (1) How do the brain circuits in people with lazy eye differ from those with normal vision? (2) How does lazy eye affect three-dimensional (3D) depth perception and eye movements? (3) How do the eye-hand coordination skills in people with lazy eye differ from those with normal vision? (4) How can we develop more effective treatments for lazy eye? Recent achievements include:

- We are the first group to demonstrate that people with lazy eye have impaired perception of images of real-world scenes.
- We demonstrate that people with lazy eye have abnormal eye movements as well as eye-hand coordination.
- We are the first to show that people with lazy eye have abnormal adaptation to perturbations in the visual world.
- We provide the first evidence that lazy eye is not only a visual disorder, it also affects multisensory integration including auditory perception.

- 2. Using Pupillometry to Probe Different Visual Disorders.** The melanopsin-containing intrinsically photosensitive retinal ganglion cells (ipRGCs) are a new subset of retinal photoreceptors discovered about a decade ago. ipRGCs contain a novel photopigment called melanopsin, and can generate action potentials in response to light with (extrinsic photoactivity) or *without* (intrinsic photoactivity) synaptic input from rods or cones. ipRGCs detect environmental light irradiance for non-image forming visual functions independent of conscious visual perception, and provide the primary afferent signals for the pupillary light reflex and circadian rhythm. Recently, a novel technique called chromatic pupillometry was developed to assess the activity of all light sensing cells by measuring the pupil response to light of different wavelengths. Our overall goal is to introduce a newly modified chromatic pupillometry protocol we developed as a clinical probe to detect and monitor diseases, and as a scientific probe to elucidate pathogenic mechanisms that remain poorly understood. Specifically, we are: (1) testing whether chromatic pupillometry offers a new objective assessment for the detection and monitoring of glaucoma; (2) using chromatic pupillometry to investigate whether the activity of ipRGCs plays a role in the development of severe myopia; (3) investigating whether a hyper-sensitized ipRGC pathway converging onto the trigeminal nociceptive pathway due to central sensitization may explain why some people with migraine experience photophobia between migraine attacks. Recent achievements include:
- We are the first to devise and refine a chromatic pupillometry protocol that can induce an robust pupillary response using a full-field stimulation that facilitates the development of a reliable, convenient, and comfortable technique to assess ipRGC function for emerging clinical use.
 - We are the first to develop a chromatic pupillometry testing method to selectively present predominantly hemifield, central-field and full-field stimulation which is particularly useful for testing asymmetric diseases such as early glaucoma.
 - It was proposed that after activation by blue light, activated melanopsin is converted back to its resting state by long wavelength red light exposure. Contrary to this hypothesis, we provide the first in-vivo evidence that the wavelengths of stimuli driving both the forward and backward reactions of melanopsin may be similar.
- 3. Universal Vision Screening in Kindergarten Children.** Amblyopia is an important public health issue—early detection and treatment is key. Amblyopia can be treated by eyeglasses to correct for the refractive errors, surgery to realign the eyes, and/or patching to encourage usage of the affected eye. Treatment is much more effective if it begins before age 7 than if it is delayed after that age. However, half of all cases of amblyopia are undetected until after 5 years of age. Refractive errors (myopia, hyperopia, astigmatism) are an important public health and education issue—early correction is vital for learning. Despite universal coverage for eye examination in Ontario, many social barriers exist for children to access eye care. Early vision screening is critical but not universally available for children in Ontario. In addition to manual screening using eye charts, many screening devices are available. However, almost all of these devices utilize photorefractometry and measure refractive errors only. The Pediatric Vision Scanner (PVS) is a new device that detects strabismus and amblyopia directly. The overall goal of this research is to design a comprehensive eye care program using robust level 1 evidence to support which types / combination of vision screening methods and comprehensive eye examination are most effective in detecting eye problems that are also most cost-effective. The specific objectives of this research are to: (1) examine and compare the differences in the composite outcome of the detection rate of amblyopia and significant refractive errors requiring treatment in JK and SK students through an intervention using various screening strategies; and (2) compare the costs and effects of different approaches used to detect amblyopia and significant refractive errors in school-age children.
- 4. Double Vision (Diplopia) / Strabismus from Brain Diseases** is a common and disabling feature of many diseases that affect adults, including strokes, brain tumours, diabetes, and multiple sclerosis. Our goal is to understand the brain mechanisms that cause double vision and to find a cure for it. Specifically, our research aims to answer three major questions: (1) How are the three-dimensional characteristics of eye movements altered by diseases of the brain? (2) What are the mechanisms underlying these changes, and how do they adapt over time? (3) What are the effects of different kinds of surgery on vision and on brain recovery / adaptation? Major achievements include:
- Our team has devoted much effort in understanding the pathophysiologic mechanism underlying skew deviation, a vertical strabismus caused by supranuclear lesions in the brainstem or cerebellum. Our work has provided the first systematic evidence that skew deviation is caused by damage of a specific brain circuit that involves the utricles in the inner ear and the ocular motor nuclei. Because differentiating skew deviation from cranial fourth nerve palsy often pose a diagnostic challenge to clinicians, we devise a novel clinical test to differentiate between these two conditions based on our new understanding of the pathophysiologic mechanism underlying skew

deviation. The importance of our work has led to an invited review and an editorial.

- Our modelling study on opsoclonus in 3D (involuntary chaotic eye movements commonly found in patients with tumours) has led to new discovery of a specific brain structure (fastigial nucleus of the cerebellum) that is responsible for causing it.
- Our work on the vestibule-ocular reflex in 3D (the reflex that allows our vision to remain clear during head movements) has shown that the time-honoured Hering's law is not immutable, and has contributed to a new understanding of how the brain controls eye movements.
- Our study of 3D eye movements in neurologic patients has unravelled novel adaptive strategies used by the brain in the face of diseases.

5. Crossed Eyes in Infancy (Infantile Esotropia) is a health condition with an incidence of 8.3 per 100,000 children 18 years of age or under. Contrary to the popular belief that crossed eyes is a purely cosmetic condition, children born with crossed eyes suffer from a number of visual and eye movement impairments. Our goal is to understand the brain mechanisms that cause crossed eyes and to find a cure for it. Specifically, our research aims to answer three major questions: (1) How do the brain circuits that control vision and eye movements differ between cross-eyed and visually-normal infants? (2) How can we alter the development of these brain circuits to prevent or cure crossed eyes in infancy? (3) Can early surgery prevent maldevelopment of these brain circuits?

Our team, in close collaboration with Dr. Lawrence Tychsen at Washington University in St. Louis, has pioneered the use of a non-human primate model to study crossed eyes in infancy. Our work has led to new understandings of the fundamental brain mechanisms involved in crossed eyes in infancy, and the realization that early correction is critical to prevent or cure this condition. Using an animal model:

- We are the first team to use sophisticated recording technique to measure eye movements with precision in very young monkeys.
- We are one of the first to demonstrate that if correction of crossed eyes is done at a very early age, we can prevent or cure the abnormal sensory and eye movement behaviours typically seen in children with crossed eyes.
- We are one of the first to demonstrate that crossed eyes in infancy is not only an eye problem, but that it is also a brain problem as a result of abnormal wiring in the primary visual cortex.

Our team is also actively conducting a prospective clinical trial at The Hospital for Sick Children in Toronto to assess the effects of early versus standard surgery in very young children. Using motion visual evoked potentials to measure brain activity, we are one of the first to show that early surgery in human infants is superior to standard surgery in promoting brain development, and shed light on the critical periods of visual development and functional recovery in humans. The importance of our work has led to an invited review and an editorial.

2. RESEARCH FUNDING AND AWARDS

Peer-Reviewed Grants

INTERNATIONAL

2014 Sep - 2015 Jun **Principal Investigator.** Screening for eye problems in preschool children. Joanne Angle Investigator Award. Prevent Blindness. 30,000 USD. [Grants].

2009 Jul - 2012 Jun **Co-Investigator.** Visual brain repair in infantile strabismus. National Institutes of Health (NIH) (USA). R01 Grant. EY10214-13A109. PI: Tychsen, Lawrence. 1,830,000 USD. [Grants].

2003 Jul - 2008 Jun **Major Collaborator and Consultant.** Early functional-structural repair of strabismus. National Institutes of Health (NIH) (USA). R01 Grant. EY 10214-08. PI: Tychsen, Lawrence. Collaborators: Dr. Andreas Burkhalter. 2,200,000 USD. [Grants].

NATIONAL

2015 Apr - 2018 Mar **Principal Investigator.** Effective vision screening for preschool children. Canadian Institutes of Health Research (CIHR). Collaborative Health Research Projects (NSERC partnered). NPI: Dr. Daphne Maurer. Co-applicants: Drs. Kevin Thorpe, Kednapa Thavorn and Helen

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Dimaras. 631,000. [Grants].

2010 Oct - 2013 Sep **Principal Investigator.** The motor side of amblyopia (lazy eye). Canadian Institutes of Health Research (CIHR). Operating grant. MOP 106663. Collaborators: Drs. Herb Goltz, Ewa Niechwiej-Szwedo, and Douglas Tweed. 431,000. [Grants].

2008 Oct - 2013 Sep **Principal Investigator.** Timing of surgery for crossed eyes in infancy: A clinical evaluation of sensory and motor outcomes. Canadian Institutes of Health Research (CIHR). Operating grant. MOP 89763. Collaborators: Drs. Herb Goltz and Guiseppe Mirabella. 478,500. [Grants].

2008 Jan - 2011 Dec **Principal Investigator.** An investigation of the mechanisms underlying amblyopia (lazy eye). Canada Foundation for Innovation (CFI). Leaders Opportunity Fund. Collaborators: Dr. Margot Taylor and Dr. Douglas Cheyne. 1,000,000. [Grants].

2008 Jul - 2010 Jun **Co-Investigator.** Brain mechanisms of vision in human amblyopia: A magnetoencephalography (MEG) study. Canadian National Institute for the Blind (The). CNIB Baker Grant. PI: Goltz, Herb. Collaborators: Drs. Douglas Cheyne and Filomeno Cortese. 35,000. [Grants].

2006 Apr - 2011 Mar **Principal Investigator.** Deficits and adaptations of three dimensional eye motion before and after surgery for strabismus. Canadian Institutes of Health Research (CIHR). Operating grant. MOP 57853. Collaborators: Dr. Douglas Tweed and Dr. James Sharpe. 668,000. [Grants].

2005 Jul - 2007 Jun **Principal Investigator.** Initiation and maintenance of smooth pursuit eye movements in humans with infantile strabismus. Canadian National Institute for the Blind (The). E.A. Baker Foundation for Prevention of Blindness. 33,100. [Grants].

2004 Apr - 2008 Mar **Principal Investigator.** Early versus delayed surgery for infantile esotropia: A clinical evaluation of sensory and motor outcomes. Canadian Institutes of Health Research (CIHR). Operating Grant. MOP 67104. Collaborators: Dr. Carol Westall. 305,000. [Grants].

2003 Oct - 2006 Sep **Principal Investigator.** Deficits and adaptations of three dimensional eye motion before and after surgery for ocular motor nerve palsies. Canadian Institutes of Health Research (CIHR). Operating Grant. MOP 57853. Collaborators: Dr. Douglas Tweed and Dr. James Sharpe. 196,000. [Grants].

2002 Jul - 2004 Jun **Principal Investigator.** Characterization of the effects of ocular motor nerve palsies on the vestibulo-ocular reflex and Listing's law. Canadian National Institute for the Blind (The). E.A. Baker Foundation for Prevention of Blindness. Collaborators: Dr. Douglas Tweed and Dr. James Sharpe. 80,000. [Grants].

PROVINCIAL

2006 Jul - 2009 Jun **Principal Investigator.** An investigation of abnormal vision and eye movements in infants born with crossed eyes. Ministry of Research and Innovation (MRI) (Ontario). Early Researcher Award. 150,000. [Grants].

LOCAL

2016 Jul - 2017 Jun **Principal Investigator.** Using the illusory flash effect to probe impaired multisensory integration in amblyopia. The Hospital for Sick Children. Ophthalmology Research Fund. 12,957. [Grants]

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- 2015 Jul - 2016 Jun **Principal Investigator.** Behavioural training as new treatment for amblyopia: A meta-analysis and systematic review. The Hospital for Sick Children. Ophthalmology Research Fund. 13,000. [Grants]
- 2015 Jan - 2015 Dec **Principal Investigator.** Papilledema: Photography, Ultrasonography, and Lumbar puncture Study (PUPLS). Pilot research grant. Department of Ophthalmology and Vision Sciences, University of Toronto. [Grants]
- 2014 Jul - 2015 Jun **Principal Investigator.** The effect of exogenous “amblyopia” noise on saccadic adaptation in visually-normal people. The Hospital for Sick Children. Ophthalmology Research Fund. 20,000. [Grants]
- 2012 Jul - 2013 Jun **Principal Investigator.** Prism adaptation in patients with amblyopia. The Hospital for Sick Children. Ophthalmology Research Fund. 19,510. [Grants]
- 2011 Jul - 2012 Jun **Principal Investigator.** Saccadic adaptation in patients with amblyopia. The Hospital for Sick Children. Ophthalmology Research Fund. 17,580. [Grants].
- 2010 Jul - 2011 Jun **Principal Investigator.** The motor side of amblyopia. The Hospital for Sick Children. Ophthalmology Research Fund. 20,000. [Grants].
- 2009 Jul - 2010 Jun **Principal Investigator.** Magnetoencephalographic (MEG) investigation of cortical deficits in amblyopia. The Hospital for Sick Children. Ophthalmology Research Fund. 20,000. [Grants].
- 2008 Jul - 2009 Jun **Principal Investigator.** Treatment of amblyopia using macular stimulation with telescopic magnification. The Hospital for Sick Children. Ophthalmology Research Fund. Collaborators: Dr. Fariba Nazemi & Dr. Giuseppe Mirabella. 12,000. [Grants].
- 2005 Jul - 2010 Jun **Principal Investigator.** Initiation and maintenance of smooth pursuit eye movements in humans with infantile strabismus. University of Toronto. Dean’s Funds. 10,000. [Grants].

D. Publications

1. PEER-REVIEWED PUBLICATIONS

1.1 Journal Articles

1. Sharma A, **Wong AM**, Colpa L, Chow A, Jin Y. Socioeconomic status and utilization of amblyopia services at a tertiary pediatric hospital in Canada. Canadian Journal of Ophthalmology. (Trainee publication, Sharma A). **Co-Senior Responsible Author.** In press.
2. Lei S, Goltz H, Sklar J, **Wong AM**. Dataset of red light induced pupil constriction superimposed on post-illumination pupil response. Data in Brief. 2016;8:1300-1302 (Trainee publication, Lei S). **Senior Responsible Author.**
3. Lei S, Goltz H, Sklar J, **Wong AM**. The effect of red light exposure on pre-existing melanopsin-driven post-illumination pupil response. Vision Research. 2016;124:59-65 (Trainee publication, Lei S). **Senior Responsible Author.**
4. Weisbrod M, **Wong AM**, McCreelis K, Cao K, Kohly R. Faculty Development: A new model based on faculty needs for an academic department of ophthalmology. Canadian Journal of Ophthalmology. 2016;51:190-191 (Trainee publication, Weisbrod M). **Co-Senior Responsible Author.**

5. Raashid RA, Liu I, Blakeman A, Goltz H, **Wong AM**. The initiation of smooth pursuit is delayed in anisometric amblyopia. *Investigative Ophthalmology and Visual Science*. 2016;57:1757-1764 (Trainee publication, Raashid RA). **Senior Responsible Author**.
6. **Wong AM**, During D, Hartman M, Lappan-Gracon S, Hicks M, Bajwa S. Lean transformation of the eye clinic at The Hospital For Sick Children: Challenging an implicit mental model and lessons learned. *Healthcare Quarterly*. 2016;19:36-41. **Principal and Senior Responsible Author**.
7. Richards R, **Wong AM**. Infantile nystagmus syndrome: Clinical characteristics, current theories of pathogenesis, and management. *Canadian Journal of Ophthalmology*. 2015;50:400-408 (Trainee publication, Richards R). **Senior Responsible Author**.
8. Tsirlin I, Colpa L, Goltz H, **Wong AM**. Behavioural training as new treatment for amblyopia: A meta-analysis and systematic review. *Investigative Ophthalmology and Visual Science*. 2015;56:4061-75 (Trainee publication, Tsirlin I). **Senior Responsible Author**.
9. Sklar J, Goltz H, Gane L, **Wong AM**. Adaptation to laterally displacing prisms in anisometric amblyopia. *Investigative Ophthalmology and Visual Science*. 2015;56:3699-708 (Trainee publication, Sklar J). **Senior Responsible Author**.
10. Narinesingh C, Goltz H, Raashid RA, **Wong AM**. Developmental trajectory of McGurk effect susceptibility in children and adults with amblyopia. *Investigative Ophthalmology and Visual Science*. 2015;56:2107-13 (Trainee publication, Narinesingh C). **Senior Responsible Author**.
11. Lei S, Goltz H, Chandrakumar M, **Wong AM**. Test-retest reliability of hemifield, central-field and full-field chromatic pupillometry for assessing the function of melanopsin-containing retinal ganglion cells. *Investigative Ophthalmology and Visual Science*. 2015;56:1267–1273.(Trainee publication, Lei S). **Senior Responsible Author**.
12. Raashid RA, **Wong AM**, Blakeman A, Goltz H. Saccadic adaptation in visually normal individuals using saccadic endpoint variability from amblyopia. *Investigative Ophthalmology and Visual Science*. 2015;56:947–955.(Trainee publication, Raashid RA). **Senior Responsible Author**.
13. **Wong AM**. New understanding on the contribution of the central otolithic system to eye movement and skew deviation. *Eye (Lond)*. 2015;29:153-156. **Principal Author**.
14. González-Díaz M, **Wong AM**. Low positive predictive value of referrals for infantile esotropia among children of Chinese descent. *Journal of the American Association for Pediatric Ophthalmology and Strabismus*. 2014;18:502-4. (Trainee publication, González-Díaz M). **Senior Responsible Author**.
15. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, **Wong AM**. Effects of strabismic amblyopia and strabismus without amblyopia on visuomotor behaviour: III. Temporal eye-hand coordination during reaching. *Investigative Ophthalmology and Visual Science*. 2014;55:7831-838. **Senior Responsible Author**.
16. Kennedy SA, Noble J, **Wong AM**. A 65-year-old man with transient monocular vision loss. *Canadian Medical Association Journal*. 2014; 186:1085-6 (Trainee publication, Kennedy SA). **Senior Responsible Author**.
17. Lei S, Goltz H, Chandrakumar M, **Wong AM**. Full-field chromatic pupillometry for the assessment of the post-illumination pupil response driven by melanopsin-containing intrinsically photosensitive retinal ganglion cells. *Investigative Ophthalmology and Visual Science*. 2014;55:4496-503 (Trainee publication, Lei S). **Senior Responsible Author**.
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19. Narinesingh C, Wan M, Goltz H, Chandrakumar M, **Wong AM**. Audiovisual perception in adults with amblyopia: A study using the McGurk effect. *Investigative Ophthalmology and Visual Science*. 2014;55:3158-64 (Trainee publication, Wan M). **Senior Responsible Author**.

20. **Wong AM.** Amblyopia (lazy eye) in children. Canadian Medical Association Journal. 2014;186:292. **Principal Author.**
21. **Wong AM.** A practical approach to nystagmus and saccadic oscillations. Focal Points. 2014;32(1): Module 1. **Principal Author.**
22. Raashid RA, **Wong AM,** Chandrakumar M, Blakeman A, Goltz H. Short-term saccadic adaptation in patients with anisometropic amblyopia. Investigative Ophthalmology and Visual Science. 2013;11;54:6701-6711 (Trainee publication, Raashid RA). **Senior Responsible Author.**
23. Chandrakumar M, Colpa L, Reginald A, Goltz H, **Wong AM.** Measuring contrast sensitivity using M&S Smart System II vs. the Pelli-Robson chart. Ophthalmology. 2013;120:2160-2161 (Trainee publication, Reginald A). **Senior Responsible Author.**
24. Bedi H, Goltz H, **Wong AM,** Chandrakumar M, Niechwiej-Szwedo E. Error correcting mechanisms during antisaccades: Contribution of online control during primary saccades and offline control via secondary saccades. PLoS ONE. 8(8): e68613. doi:10.1371/journal.pone.0068613 (Trainee publication, Bedi H). **Senior Responsible Author.**
25. Jin Y, Chow A, Colpa L, **Wong AM.** Clinical translation of recommendations from randomized clinical trials on patching regimen for amblyopia. Ophthalmology. 2013;120:657–662 (Trainee publication, Chow A). **Senior Responsible Author.**
26. Schlenker M, Manalo E, **Wong AM.** Research productivity of Canadian ophthalmology departments in top ten ophthalmology and vision science journals from 2001-2010. Canadian Journal of Ophthalmology. 2013;48:46-55 (Trainee publication, Schlenker M, Manalo E). **Senior Responsible Author.**
27. Kennedy SA, Noble J, **Wong AM.** Examining the pupils. Canadian Medical Association Journal. 2013. DOI:10.1503/cmaj.120306 (Trainee publication, Kennedy SA). **Senior Responsible Author.**
28. Niechwiej-Szwedo E, Chandrakumar M, Goltz H, **Wong AM.** Effects of strabismic amblyopia and strabismus without amblyopia on visuomotor behavior, I: Saccadic eye movements. Investigative Ophthalmology and Visual Science. 2012;53:7458–7468 (Trainee publication, Niechwiej-Szwedo E). **Senior Responsible Author.**
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30. **Wong AM.** New concepts concerning the neural mechanisms of amblyopia and their clinical implications. Canadian Journal of Ophthalmology. 2012;47:399–409. **Principal Author.**
31. Kennedy SA, Noble J, **Wong AM.** Five things to know about...esotropia. Canadian Medical Association Journal. 2012;184:1279 (Trainee publication, Kennedy SA). **Senior Responsible Author.**
32. Niechwiej-Szwedo E, Kennedy SA, Colpa L, Chandrakumar M, Goltz H, **Wong AM.** Effects of induced monocular blur versus anisometropic amblyopia on saccades, reaching and eye-hand coordination. Investigative Ophthalmology and Visual Science. 2012;53:4354-4362 (Trainee publication, Kennedy SA). **Senior Responsible Author.**
33. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, **Wong AM.** The effect of sensory uncertainty due to amblyopia (lazy eye) on the planning and execution of visually-guided 3D reaching movements. PLoS ONE 2012;7(2): e31075. doi:10.1371/journal.pone.0031075 (Trainee publication, Niechwiej-Szwedo E). **Senior Responsible Author.**
34. Chandrakumar M, Blakeman A, Goltz H, Sharpe JA, **Wong AM.** The static ocular counterroll reflex in skew deviation. Neurology. 2011;77:638-644. **Senior Responsible Author.**
35. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, **Wong AM.** Effects of anisometropic amblyopia on visuomotor behavior, III: Temporal eye-hand coordination during reaching. Investigative Ophthalmology and Visual Science. 2011;52:5853–5861 (Trainee publication, Niechwiej-Szwedo E). **Senior Responsible Author.**

36. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, Crawford JD, **Wong AM**. Effects of anisometric amblyopia on visuomotor behavior, Part 2: Visually guided reaching. *Investigative Ophthalmology and Visual Science* 2011;52:795–803 (Trainee publication, Niechwiej-Szwedo E). **Senior Responsible Author**.
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38. Mirabella G, Hay S, **Wong AM**. Deficits in perception of real-world scenes in patients with a history of amblyopia. *Archives of Ophthalmology* 2011;129:176-183. **Senior Responsible Author**.
39. Tischfield MA, Baris HN, Wu C, Rudolph G, Van Maldergem L, He W, ChanW, Andrews C, Demer JL, Robertson RL, Mackey DA, Ruddle JB, Bird TD, Gottlob I, Pieh C, Traboulsi EI, Pomeroy SL, Hunter DG, Soul JS, Newlin A, Sabol LJ, Doherty EJ, de Uzcátegui CE, de Uzcátegui N, Collins ML, Sener EC, Wabbels B, Hellebrand H, Meitinger T, de Berardinis T, Magli A, Schiavi C, Pastore-Trossello M, Koc F, **Wong AM**, Levin AV, Geraghty MT, Descartes M, Flaherty M, Jamieson RV, Møller HU, Meuthen I, Callen DF, Kerwin J, Lindsay S, Meindl A, Gupta ML, Pellman D, Engle EC. Human TUBB3 mutations perturb microtubule dynamics, kinesin interactions, and neuronal circuitry. *Cell* 2010;140:74-87. **Collaborator**.
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42. **Wong AM**. Understanding skew deviation and a new clinical test to differentiate it from trochlear nerve palsy. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2010;14:61-67. **Principal Author**.
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44. Chandrakumar M, Hirji Z, Blakeman A, Goltz H, Mirabella G, **Wong AM**. Effects of earth-fixed vs head-fixed target on ocular counterroll. *Archives of Ophthalmology* 2010;128:413-417. (Trainee publication, Chandrakumar M). **Senior Responsible Author**.
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46. Cheung RT, **Wong AM**. Optic nerve hypoplasia associated with chromosome 9 inversion. *Canadian Journal of Ophthalmology* 2009;44:610-611. (Trainee publication, Cheung RT). **Senior Responsible Author**.
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1.3 Editorials

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2. NON-PEER-REVIEWED PUBLICATIONS

2.1 Journal Articles

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2. **Wong AM**, Sharpe JA. Goldmann vs Humphrey perimetry for occipital lobe lesions. Ophthalmology (Reply to Letters to the Editor) 2001;108:241-242.
3. Lei S, Goltz H, Chandrakumar M, **Wong AM**. Test-retest reliability of hemifield, central-field and full-field chromatic pupillometry for assessing the function of melanopsin-containing retinal ganglion cells. Investigative Ophthalmology and Visual Science (Reply to Letters to the Editor) 2015;56:2520-2521.

2.2 Books

1. **Wong AM**. Eye Movement Disorders. New York: Oxford University Press. 2008. ISBN13: 978-0-19-532426-6. **Principal Author**.
2. **Wong AM**. Three Dimensional Disorders of Gaze and Binocular Alignment after Brainstem and Ocular Motor Nerve Lesions. PhD Thesis. Toronto: University of Toronto; 2001. ISBN 0612637352. **Principal Author**.

2.3 Book Chapters

1. Niechwiej-Szwedo E, Goltz HC, **Wong AM**. Deficits and adaptation of eye-hand coordination during visually-guided reaching movements in people with amblyopia. In: Steeves J, Harris LR (eds). Plasticity in Sensory Systems. Cambridge University Press. 2013. **Senior Responsible Author**.
2. **Wong AM**. Eye Movements, Saccades. In: Aminoff MJ, Daroff RB (eds). Encyclopedia of Neurological Sciences, 2nd edition, Oxford: Academic Press. 2014. vol. 2, pp. 249-251. **Principal Author**.
3. Levin AV, Wilson TW, **Wong AM**. Phakomatoses. In: Levin AV, Wilson TW (eds). Atlas of Pediatric Ophthalmology and Strabismus. Philadelphia, Pennsylvania: Lippincott Williams & Wilkins. 2006. p.209-220. **Co-Principal Author**.
4. Levin AV, Wilson TW, Buncic JR, **Wong AM**, Lam WC. Optic nerve. In: Levin AV, Wilson TW (eds). Atlas of Pediatric Ophthalmology and Strabismus. Philadelphia, Pennsylvania: Lippincott Williams & Wilkins. 2006. p.107-120. **Co-Principal Author**.

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5. Sharpe JA, **Wong AM**. Anatomy and physiology of ocular motor systems. In: Miller NR, Newman NJ, Biouesse V, Kerrison JB (eds). Walsh and Hoyt's Clinical Neuro-Ophthalmology, 6th Edition. Philadelphia, Pennsylvania: Lippincott Williams & Wilkins. 2005. p.809-885. **Co-Principal Author**.
6. **Wong AM**, Musallam S, Tomlinson RD, Shannon P, Sharpe JA. Opsoclonus in three dimensions: Oculographic and neuropathologic correlation. In: Sharpe JA (ed). Neuro-ophthalmology at the Beginning of the New Millennium. Englewood, New Jersey: Medimond Publishing Co., 2001. p.87-92. **Principal Author**.
7. **Wong AM**. The Oregon approach to health care: Its applicability to Canada. In: Boan JA ed. Proceedings of the Fifth Canadian Conference on Health Economics. Regina, Saskatchewan: Canada Plains Research Centre, 1994. p.47-58. **Principal Author**.

2.4 Book Review

1. **Wong AM**. Neuro-Ophthalmology. Neuronal Control of Eye Movements by Straube A and Buttner U. Journal of Neuro-Ophthalmology 2008;28:363-364. **Principal Author**.

3. SUBMITTED PUBLICATIONS

3.1 Journal Articles

1. Le TD, Raashid RA, Colpa L, Noble J, Ali A, **Wong AM**. Pediatric vision screening in the primary care setting in Ontario. Paediatrics & Child Health. (Trainee publication, Le TD). **Senior responsible author**.
2. Niechwiej-Szwedo E, Goltz H, Colpa L, Chandrakumar M, **Wong AM**. Effects of reduced acuity and stereoacuity on saccades and reaching movements in adults with amblyopia and strabismus. Investigative Ophthalmology and Visual Science. **Senior Responsible Author**.

E. Presentations and Special Lectures

1. INTERNATIONAL

1.1 Invited Lectures and Other Presentations

- 2017 **Visiting Professor**. (1) Skew deviation: From the laboratory to bedside; (2) New insights into amblyopia; and (3) Nystagmus - Differentiating the benign from ominous. Albany Medical College, New York, United States.
- 2016 **Invited Speaker**. Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. Chicago, United States.
- 2016 **Keynote Speaker**. What's new in amblyopia. President's Session. Royal College of Ophthalmologists Annual Congress, Birmingham, United Kingdom.
- 2016 **Keynote Speaker**. How abnormal early visual development affects multi-sensory integration. Congress Satellite Day in Pediatric Ophthalmology and Visual Sciences. Royal College of Ophthalmologists Annual Congress, Birmingham, United Kingdom.
- 2016 **Keynote Speaker**. (1) Nystagmus - Differentiating the benign from ominous; and (2) Pediatric idiopathic intracranial hypertension. Neuro-ophthalmology Session. Royal College of Ophthalmologists Annual Congress, Birmingham, United Kingdom.
- 2016 **State of the Art Lecturer**. New insights into amblyopia. Dutch Ophthalmological Society Meeting. Maastricht, Netherlands.
- 2016 **Visiting Professor**. Skew deviation: From the laboratory to bedside. Jules Stein Eye Institute, University of California, Los Angeles. CA, United States.
- 2015 **Keynote Speaker**. Basic Neuro-Ophthalmology course: The eye movement system. University of Copenhagen, Denmark.

- 2015 **Invited Speaker.** A meta-analysis of behavioural training as new treatment for amblyopia in children and adults. Lasker/IRRF Initiative on Amblyopia. Woods Hole, MA, United States.
- 2015 **Visiting Professor.** (1) Skew deviation: From the laboratory to bedside; and (2) New insights into amblyopia. Flaum Eye Institute, University of Rochester, New York, United States.
- 2014 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. Chicago, United States.
- 2014 **Joseph H. Calhoun Visiting Professorship.** (1) A practical approach to nystagmus and saccadic oscillations; and (2) Congenital & hereditary optic neuropathy. Wills Eye Institute. Philadelphia, United States.
- 2014 **Keynote Speaker.** (1) Skew deviation: From the laboratory to bedside; and (2) New insights into amblyopia. 11th Annual Update on Pediatric Ophthalmology and Strabismus: Diagnosis and Treatment of Strabismus and Amblyopia. Children's Hospital of Philadelphia. Philadelphia, United States.
- 2014 **Roger Trimble Lecture.** Skew deviation: From the laboratory to bedside. The 8th Annual Meeting of the British Isles Paediatric Ophthalmology and Strabismus Association. Birmingham, United Kingdom.
- 2014 **Keynote Speaker.** New insights into amblyopia. The 8th Annual Meeting of the British Isles Paediatric Ophthalmology and Strabismus Association. Birmingham, United Kingdom.
- 2014 **Invited Speaker.** New insights into amblyopia. Oxford University, United Kingdom.
- 2014 **Invited Speaker.** New understanding on the contribution of the central otolithic system to eye movement. Cambridge Ophthalmological Symposium. St John's College, Cambridge, United Kingdom.
- 2013 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. New Orleans, United States.
- 2013 **Invited Speaker.** Skew deviation: From the laboratory to bedside. Neuro-Ophthalmology Society of Australia 29th Annual Clinical & Scientific Meeting. Australia.
- 2013 **Invited Speaker.** New treatments for infantile nystagmus syndrome. Do they work? Neuro-Ophthalmology Society of Australia 29th Annual Clinical & Scientific Meeting. Australia.
- 2013 **Invited Speaker.** Effects of decorrelated binocular input on ocular motor development. Neuro-Ophthalmology Society of Australia 29th Annual Clinical & Scientific Meeting. Australia.
- 2013 **Invited Speaker.** Nystagmus and saccadic intrusions. NeuroVision Training Weekend in Neuro-Ophthalmology. Australia.
- 2013 **Invited Speaker.** New concepts on visual cortical plasticity: Multiple critical periods and implications for amblyopia. American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Annual Meeting. Boston, United States. Presenter(s): **Wong AM**, Lewis T, Hensch T.
- 2013 **The Robb-Petersen Lecture.** Skew deviation: From the laboratory to bedside. Boston Children's Hospital and the New England Ophthalmological Society. Boston, United States.
- 2013 **Invited Speaker.** (1) New insights into amblyopia; (2) Early surgery for infantile esotropia; and (3) Nystagmus - Pearls for differentiating the benign from the ominous. New England Ophthalmological Society. Boston, United States.
- 2013 **Invited Speaker.** New insight into amblyopia. 58th Annual Meeting of the Association for Research in Strabismus (The Squint Club). Charleston, United States.
- 2013 **Invited Speaker.** Skew deviation. Pediatric Neuro-Ophthalmology Online Course (Webinar). American Association of Pediatric Ophthalmology and Strabismus. United States.
- 2012 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. Chicago, United States.

- 2012 **Invited Speaker.** (1) What's new with skew deviation?; and (2) Approach to the patient with nystagmus. International Neuro-Ophthalmology Society (INOS) Meeting. Singapore.
- 2011 **Invited Speaker.** (1) Nystagmus and saccadic oscillations; (2) Supranuclear eye movement disorders; and (3) Nuclear and infranuclear cranial nerve palsies. Greater New York Ophthalmology Lecture Series, Manhattan Eye and Ear Infirmary. New York, United States.
- 2011 **Invited Speaker.** What does SQUID have to do with lazy eye? Using MEG to study amblyopia. North American Neuro-ophthalmology Society (NANOS) Annual Meeting. Vancouver, Canada.
- 2011 **Invited Speaker.** What's new with skew? Grand Rounds lecture, Manhattan Eye and Ear Infirmary. New York, United States.
- 2011 **Invited Speaker.** Neural mechanisms of amblyopia as revealed by magnetoencephalography (MEG) in humans. Mini-Symposium: Neural Mechanisms of Amblyopia, Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting. Fort Lauderdale, United States.
- 2011 **Invited Speaker.** New Insights into Amblyopia: Perceptual Deficits and Treatment. American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Annual Meeting. San Diego, United States. Presenter(s): **Wong AM**, Hess R, Thompson B.
- 2011 **Invited Speaker.** AAO Symposium "Unraveling Mysteries in Neuro-Ophthalmology: Lessons From Basic Science" -- Vertical Diplopia: Rationale for a Four-Step Test. American Academy of Ophthalmology (AAO) Annual Meeting. Orlando, United States.
- 2011 **Invited Speaker.** What's new with skew deviation? University of Auckland and New Zealand National Eye Center. Auckland, New Zealand.
- 2011 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. Orlando, United States.
- 2010 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. Beijing University and Beijing Second Affiliated Hospital. Beijing, China.
- 2010 **Invited Speaker.** (1) Understanding nystagmus: A practical approach for the clinician; and (2) An approach to diplopia. Beijing Tongren Hospital and Capital Medical University. Beijing, China.
- 2010 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. The 25th Asia-Pacific Academy of Ophthalmology Congress. Beijing, China.
- 2010 **Invited Speaker.** Effects of decorrelated binocular input on visual development and their clinical implications. Biennial meeting of the International Society for Eye Research. Montreal, Quebec, Canada.
- 2010 **Invited Speaker.** (1) Alterations of ocular movement in diseases of central nervous system; and (2) Nystagmus: Clinical cases. Latin American Strabismus Congress (Congreso Latinoamericano de Estrabismo). Cancun, Mexico.
- 2010 **Invited Speaker.** Pearl: How to distinguish fourth nerve palsy from skew deviation. Pediatric Ophthalmology 2010: Pearls and Pitfalls, American Academy of Ophthalmology Annual Meeting. Chicago, United States.
- 2010 **Invited Speaker.** Pitfall: How not to miss periodic alternating nystagmus. Pediatric Ophthalmology 2010: Pearls and Pitfalls, American Academy of Ophthalmology Annual Meeting. Chicago, United States.
- 2010 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. Chicago, United States.
- 2010 **Invited Speaker.** (1) How to differentiate trochlear nerve palsy from skew deviation; and (2) An approach to diplopia. The 25th Asia-Pacific Academy of Ophthalmology Congress. Beijing, China.
- 2010 **Invited Speaker.** Early surgery for infantile esotropia: An evidence-based approach. Expert's Opinion in

Pediatric Ophthalmology. Zurich University Hospital. Zurich, Switzerland.

- 2010 **Invited Speaker.** An approach to pediatric nystagmus. Wayne State University. Detroit, United States.
- 2009 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. San Francisco, United States.
- 2009 **Invited Speaker.** Understanding skew deviation and differentiating it from trochlear nerve palsy. American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Annual Meeting. San Francisco, United States.
- 2009 **Invited Speaker.** Trochlear nerve palsy or skew deviation? The First World Congress of Pediatric Ophthalmology and Strabismus. Barcelona, Spain.
- 2009 **Invited Speaker.** Effects of de-correlated binocular input on ocular motor development. Pediatric Eye Movement Disorders Symposium, North American Neuro-ophthalmology Society (NANOS) Annual Meeting. Salt Lake City, United States.
- 2009 **Invited Speaker.** Skew deviation: Pathophysiological mechanisms and diagnostic challenges. Smith-Kettlewell Eye Research Institute. San Francisco, United States.
- 2008 **Invited Speaker.** Skew deviation: Pathophysiological mechanisms and diagnostic challenges. Harvard Medical School. Boston, United States.
- 2008 **Invited Speaker.** A pathophysiologic approach to patients with involuntary eye movements. Washington National Eye Center. District of Columbia, United States.
- 2008 **Invited Speaker.** Skew deviation: Pathophysiological mechanisms and diagnostic challenges. Eye Movement Symposium, International Neuro-Ophthalmology Society Meeting. Napa Valley, United States.
- 2008 **Invited Speaker.** Effects of de-correlated binocular input to the developing brain. Mini-Symposium: The Developing Brain, Strabismus and Amblyopia, Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting. Fort Lauderdale, United States.
- 2008 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. Atlanta, United States.
- 2007 **Invited Speaker.** (1) Adaptive neural mechanism for Listing's law revealed in patients with skew deviation caused by brainstem or cerebellar lesion; and (2) Crossed eyes in infancy: Can early correction prevent the development of sensory and ocular motor deficits?. Johns Hopkins University. Baltimore, United States.
- 2007 **Invited Speaker.** Crossed eyes in infancy: Can early correction improve visual and eye movement outcomes? Chinese University of Hong Kong. Hong Kong.
- 2007 **Invited Speaker.** Crossed eyes in infancy: Can early correction improve visual and eye movement outcomes? Hong Kong Polytechnic University. Hong Kong.
- 2007 **Invited Speaker.** Head position-dependent changes in ocular torsion in skew deviation. Johns Hopkins University. Baltimore, United States.
- 2006 **Invited Speaker.** Duration of early binocular image decorrelation predicts the severity of sensory and ocular motor abnormalities in macaque monkeys. Strabismus in Neuro-Ophthalmology Symposium, International Neuro-Ophthalmology Society Meeting. Tokyo, Japan.
- 2005 **The H. Talmage Dobbs Lecture.** Effects of early correction for infantile esotropia on cerebral sensory and ocular motor development. Emory University. Atlanta, United States.
- 2005 **Invited Speaker.** A clinico-pathologic, oculographic and modelling study of opsoclonus. Emory University. Atlanta, United States.
- 2005 **Invited Speaker.** A clinico-pathologic, oculographic and modelling study of opsoclonus. Glasgow

Neuroscience Institute. Scotland, United Kingdom.

- 2005 **Invited Speaker.** (1) Improved sensory and ocular motor outcomes after early correction for infantile esotropia; and (2) A clinico-pathologic, oculographic and modelling study of opsoclonus. Tennent Institute of Ophthalmology, University of Glasgow. Scotland, United Kingdom.
- 2005 **Invited Speaker.** Effects of early correction for infantile esotropia on cerebral sensory and ocular motor development. Manhattan Eye, Ear & Throat Hospital, New York University (NYU). United States.
- 2004 **Invited Speaker.** (1) Nystagmus and saccadic dyskinesia; and (2) Improved sensory and ocular motor outcomes after early correction for infantile esotropia. University of Wisconsin in Madison. United States.
- 2004 **Keynote Speaker.** Crossed eyes in infancy: Can early correction prevent the development of sensory and ocular motor deficits? Pediatric Neuro-Ophthalmology Update 2004. University of California. Irvine, United States.
- 2004 **Invited Speaker.** Can early correction prevent the development of sensory and ocular motor deficits in infantile esotropia? Zurich University Hospital. Switzerland.
- 2004 **Invited Speaker.** Crossed eyes in infancy: Can early correction prevent the development of sensory and ocular motor deficits? University of Tubingen. Germany.
- 2004 **Invited Speaker.** Effects of early surgery for infantile esotropia on cerebral ocular motor development. National Eye Institute (NEI), National Institutes of Health (NIH). United States.
- 2004 **Invited Speaker.** A clinician-friendly approach to understanding Listing's law. Ocular Motility Symposium, North American Neuro-ophthalmology Society (NANOS) Annual Meeting. Orlando, United States.
- 2004 **Invited Speaker.** (1) A practical pathophysiologic approach to understanding nystagmus and saccadic dyskinesia"; and (2) Where are we at in understanding infantile esotropia?. American Association of Certified Orthoptists Annual Meeting. New Orleans, Louisiana, United States.
- 2003 **Invited Speaker.** Co-operation versus conflict between ocular dominance columns in infantile esotropia. Young Investigator Award Special Lecture. The American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Annual Meeting. Hawaii, United States.
- 2002 **Invited Speaker.** (1) Understanding Listing's law: II. Adaptations in ocular motor nerve palsy; and (2) Understanding Listing's law: I. An easy to understand approach for clinical practitioners. American Association of Certified Orthoptists Annual Meeting. Orlando, Florida, United States. October 20-23, 2002.
- 2001 **Invited Speaker.** Opsoclonus: A clinico-pathologic review and a modelling study. Cole Eye Institute, Cleveland Clinic Foundation. United States.
- 2000 **Invited Speaker.** (1) The retinotopic map in the human occipital cortex; and (2) Learning disabilities and attention deficit disorder. Moron Hospital (Clínica Modelo de Morón). Buenos Aires, Argentina.
- 2000 **Invited Speaker.** (1) Dancing eyes in three dimensions: Opsoclonus and paraneoplastic syndrome; and (2) A comparison of tangent screen, Goldmann and Humphrey perimetry in the detection and localization of occipital lesions. Ophthalmological Consultants (Consultores Oftalmológicos). Buenos Aires, Argentina.

1.2 Presentations at Meetings and Symposia

- 2016 Postural instability in children with amblyopia and strabismus without amblyopia. 2016 Israel Ophthalmology Society Meeting, Tel Aviv, Israel. Presenter(s): Zipori AB, Colpa L, Cushing S, Gorden K, **Wong AM**. May 31-Jun 1, 2016.
- 2016 The audiovisual temporal binding window in unilateral amblyopia: monocular and binocular effects. 2016 VSS Annual Meeting in St. Pete Beach, Florida. Presenter(s): Richards M, Goltz H, **Wong AM**. May 13-18, 2016.
- 2016 The effect of red light exposure on the pre-existing melanopsin-driven post-illumination pupil response. The 42nd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Tucson, Arizona,

- United States. Presenter(s): Lei S, Goltz H, Sklar J, **Wong AM**. Feb 27-Mar 3, 2016.
- 2016 Abnormal integration of audiovisual spatial information in amblyopia. The 42nd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Richards M, Goltz H, **Wong AM**. Feb 27-Mar 3, 2016.
- 2016 Double take. The 42nd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Richards M, **Wong AM**. Feb 27-Mar 3, 2016.
- 2015 Audiovisual sensory binding and spatial localization in amblyopia. International Multisensory Research Forum 2015. Pisa, Italy. Presenter(s): Richards MD, Goltz HC, Wong AM. June 13-16, 2015.
- 2015 Audiovisual perception in children and adults with amblyopia. The 41st Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. New Orleans, United States. Presenter(s): **Wong AM**, Narinesingh C, Chandrakumar M, Goltz H. March 25-29, 2015.
- 2015 Test–retest reliability of hemifield, central-field and full-field chromatic pupillometry for assessing the function of melanopsin-containing retinal ganglion cells. The 41st Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Diego, CA, United States. Presenter(s): Lei S, Goltz H, Chandrakumar M, **Wong AM**. Feb 21-26, 2015.
- 2015 The initiation of smooth pursuit eye movements in anisometric amblyopia. The 41st Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Diego, CA, United States. Presenter(s): Rashid RA, Liu I, Chandrakumar M, Goltz H, **Wong AM**. Feb 21-26, 2015.
- 2015 Development of audiovisual integration in children and adults with amblyopia. The 41st Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Diego, CA, United States. Presenter(s): **Wong AM**, Narinesingh C, Rashid RA, Goltz H. Feb 21-26, 2015.
- 2014 Full-field chromatic pupillometry in the assessment of the post-illumination pupil response driven by melanopsin-containing retinal ganglion cells. The 40th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Rio Grande, Puerto Rico, United States. Presenter(s): Lei S, Chandrakumar M, Goltz H, **Wong AM**. March 1-6, 2014.
- 2014 Integrated Visual-Auditory Perception in Amblyopic Adults: A Study Using the McGurk Phenomenon. The 40th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Rio Grande, Puerto Rico, United States. Presenter(s): Wan M, Narinesingh C, Goltz H, **Wong AM**. March 1-6, 2014.
- 2012 Use of the “upright-supine” test to differentiate skew deviation from other causes of vertical strabismus. XIIth International Orthoptic Congress. Toronto, Ontario, Canada. Presenter(s): Colpa L, **Wong AM**, Chandrakumar M. June 26-29, 2012.
- 2012 A new method for testing letter contrast sensitivity in a clinical setting: Comparing M&S smart system II letter contrast test with Pelli-Robson chart. XIIth International Orthoptic Congress. Toronto, Ontario, Canada. Presenter(s): Colpa L, Chandrakumar M, Reginald A, Cotesta M, Pantou C, Westall C, **Wong AM**. June 26-29, 2012.
- 2012 The effect of strabismic amblyopia and strabismus without amblyopia on saccade latencies. The 38th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Antonio, Texas, United States. Presenter(s): Niechwiej-Szwedo E, Goltz H, Chandrakumar M, **Wong AM**. February 11-16, 2012.
- 2012 Relationship between fixation stability and saccade initiation in patients with amblyopia. The 38th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Antonio, Texas, United States. Presenter(s): Niechwiej-Szwedo E, Gonzales E, Tarita-Nistor L, Chandrakumar M, Goltz H, **Wong AM**. February 11-16, 2012.
- 2012 Effects of induced monocular blur versus anisometric amblyopia on saccadic eye movements. The 38th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Antonio, Texas, United States. Presenter(s): Kennedy S, Niechwiej-Szwedo E, Chandrakumar M, Goltz H, **Wong AM**. February 11-16, 2012. (Trainee Presentation).

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- 2012 A new method for testing letter contrast sensitivity in a clinical setting: Comparing M&S smart system II letter contrast test with Pelli-Robson chart. The 38th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Antonio, Texas, United States. Presenter(s): Chandrakumar M, Reginald A, Colpa L, Cotesta M, Pantan C, Westall C, **Wong AM**. February 11-16, 2012.
- 2012 Saccadic adaptation in amblyopia. The 38th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. San Antonio, Texas, United States. Presenter(s): Raashid RA, Chandrakumar M, Goltz H, Blakeman A, **Wong AM**. February 11-16, 2012. (Trainee Presentation).
- 2012 Deformable anatomic templates embed information on eye movement disorders into brain images. 22nd Meeting of the European Neurological Society. Prague, Czech Republic. Presenter(s): Kumar V, Hayman LA, **Wong A**, Tang R, Schiffman J. June 9-12, 2012.
- 2011 The Effects of Anisometropic Amblyopia on Saccadic Eye Movements. The 37th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Vancouver, British Columbia, Canada. Presenter(s): Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, **Wong AM**. February 5-10, 2011. (Trainee Presentation).
- 2011 The Effects of Anisometropic Amblyopia on Visually-Guided Reaching. The 37th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Vancouver, British Columbia, Canada. Presenter(s): Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, **Wong AM**. February 5-10, 2011. (Trainee Presentation).
- 2011 A novel "upright-supine test" to differentiate skew deviation from trochlear nerve palsy and other causes of vertical strabismus. The 37th Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. San Diego, United States. Presenter(s): **Wong AM**, Colpa L. March 30 - April 3, 2011.
- 2010 The effect of amblyopia on visually guided pointing. Biennial meeting of the International Society for Eye Research. Montreal, Quebec, Canada. Presenter(s): Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, **Wong AM**. July 18-23, 2010. (Trainee Presentation).
- 2010 Neural interactions of pattern perception in human amblyopia: An MEG study. Biennial meeting of the International Society for Eye Research. Montreal, Quebec, Canada. Presenter(s): Cortese F, Goltz HC, Cheyne DO, **Wong AM**. July 18-23, 2010. (Trainee Presentation).
- 2010 Saccade dynamics in peripheral vs central fourth nerve palsies. World Ophthalmology Congress. Berlin, Germany. Presenter(s): Fu T, Blakeman A, Chandrakumar M, Goltz HC, **Wong AM**. June 3-6, 2010. (Trainee Presentation).
- 2010 Sensitivity and specificity of a new "upright-supine test" to differentiate skew deviation from other causes of vertical strabismus. The 36th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): **Wong AM**, Colpa L. March 6-12, 2010.
- 2010 Static ocular counterroll in patients with skew deviation. The 36th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Chandrakumar M, Blakeman A, Goltz HC, **Wong AM**. March 6-12, 2010. (Trainee Presentation).
- 2010 Effects of target motion perturbation during initiation and steady-state pursuit in humans with infantile esotropia. The 36th Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Hirji ZA, Zquette C, Colpa L, Blakeman A, Goltz HC, Steeves J, **Wong AM**. March 6-12, 2010. (Trainee Presentation).
- 2009 Effects of early binocular decorrelation on smooth pursuit development in macaque monkeys. The 35th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Lake Tahoe, Nevada, United States. Presenter(s): Le K, Foeller P, Bradley D, Tychsen L, **Wong AM**. February 21-26, 2009. (Trainee Presentation).
- 2009 Effects of earth-fixed vs head-fixed target on ocular counterroll. The 35th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Lake Tahoe, Nevada, United States. Presenter(s): Chandrakumar M, Hirji Z, Blakeman A, Goltz H, Mirabella G, **Wong AM**. February 21-26, 2009. (Trainee Presentation).

Presentation).

- 2009 A geriatric-looking young boy. The 35th Annual North American Neuro-ophthalmology Society (NANOS) Meeting – Frank B. Walsh Session. Lake Tahoe, Nevada, United States. Presenter(s): Lei S, **Wong AM**. February 21-26, 2009. (Trainee Presentation).
- 2009 Treatment of amblyopia using macular stimulation with telescopic magnification. The 35th Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. San Francisco, United States. Presenter(s): Wu J, Nazemi F, Schofield J, **Wong AM**. April 17-21, 2009. (Trainee Presentation).
- 2008 Skew deviation: Pathophysiological mechanisms and diagnostic challenges. 2008 Jampolsky fellows' meeting. Toronto, Canada. Presenter(s): **Wong AM**.
- 2008 Changes in vertical misalignment in skew deviation and trochlear nerve palsy: dependence on head orientation. The 34th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Orlando, Florida, United States. Presenter(s): Parulekar M, Buncic R, **Wong AM**. March 8-13, 2008. (Trainee Presentation).
- 2008 The translational vestibulo-ocular reflex in patients with skew deviation. The 34th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Orlando, Florida, United States. Presenter(s): Schlenker M, Mirabella G, Goltz H, Kessler P, Blakeman A, **Wong AM**. March 8-13, 2008. (Trainee Presentation).
- 2008 The effects of target characteristics and viewing distance on ocular counterroll in healthy humans. The 34th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Orlando, Florida, United States. Presenter(s): Leung J, Abuhaleeqa K, Goltz H, Blakeman A, Colpa L, **Wong AM**. March 8-13, 2008. (Trainee Presentation).
- 2008 Pattern of changes in ocular torsion in skew deviation and trochlear nerve palsy: Dependence on static head orientation. The 34th Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. Washington, District of Columbia, United States. Presenter(s): Parulekar MV, Buncic JR, Dai S, **Wong AM**. (Poster). April 2-6, 2008. (Trainee Presentation).
- 2008 Timing of surgery for infantile esotropia in humans: Effects on motion visually evoked responses. The 34th Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. Washington, District of Columbia, United States. Presenter(s): **Wong AM**, Gerth C, Colpa L, Westall C, Wright T. April 2-6, 2008. (Poster).
- 2007 Ocular motor never palsies: implications for diagnosis and repair. Symposium on Using eye Movements as an Experimental Probe of Brain Function. Imperial College. London, United Kingdom. Presenter(s): Sharpe JA, **Wong AM**, Fouladvand M.
- 2007 Head position-dependent changes in ocular torsion in skew deviation. The 33rd Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Snowbird, Utah, United States. Presenter(s): Parulekar M, Dai S, Buncic R, **Wong AM**. February 11-15, 2007. (Trainee Presentation).
- 2007 Severity of directional pursuit asymmetry correlates with the duration of binocular decorrelation in strabismic macaque monkeys. The 33rd Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Snowbird, Utah, United States. Presenter(s): Hasany A, Tychsens L, Foeller P, Bradley D, **Wong AM**. February 11-15, 2007. (Trainee Presentation).
- 2007 Early vs delayed surgery for infantile esotropia in human infants: Effects on cortical visual motion processing. The 33rd Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Snowbird, Utah, United States. Presenter(s): Gerth C, Wright T, Peckford L, **Wong AM**. February 11-15, 2007. (Poster). (Trainee Presentation).
- 2007 An Unusual "Optic Neuritis". The 33rd Annual North American Neuro-ophthalmology Society (NANOS) Meeting – Frank B. Walsh Session. Snowbird, Utah, United States. Presenter(s): Parulekar M, **Wong AM**. February 11-15, 2007. (Trainee Presentation).

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- 2006 The high frequency / acceleration head-heave test in detecting otolith disease. 24th Annual Meeting of the Bárány Society. Uppsala, Sweden. Presenter(s): Kessler P, Tomlinson D, Blakeman A, Rutka J, Ranalli P, **Wong AM**. June 11-14, 2006. (Trainee Presentation).
- 2006 Duration of binocular decorrelation predicts the intensity of fusion maldevelopment (latent) nystagmus in strabismic macaque monkeys. The 32nd Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. Keystone, Colorado, United States. Presenter(s): Richards M, **Wong AM**, Foeller P, Bradley D, Tychsens L. March 15-19, 2006. (Poster). (Trainee Presentation).
- 2006 Duration of binocular decorrelation predicts the angle of infantile strabismus in macaque monkeys. The 32nd Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. Keystone, Colorado, United States. Presenter(s): Sin L, **Wong AM**, Foeller P, Bradley D, Tychsens L. March 15-19, 2006. (Poster). (Trainee Presentation).
- 2006 Duration of binocular decorrelation predicts the severity of nasotemporal pursuit asymmetries in strabismic macaque monkeys. The 32nd Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. Keystone, Colorado, United States. Presenter(s): Hasany A, **Wong AM**, Foeller P, Bradley D, Tychsens L. March 15-19, 2006. (Poster). (Trainee Presentation).
- 2006 Evaluation of vertical rectus muscle insertions using ultrasound biomicroscopy. The 32nd Annual American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Meeting. Keystone, Colorado, United States. Presenter(s): Solartes C, Kraft S, Smith D, Tehrani N, Buncic JR, **Wong AM**. March 15-19, 2006. (Poster). (Trainee Presentation).
- 2006 Duration of binocular decorrelation predicts the intensity of fusion maldevelopment (latent) nystagmus in strabismic macaque monkeys. The 32nd Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Richards M, Foeller P, Bradley D, Tychsens L, **Wong AM**. February 25 – March 2, 2006. (Trainee Presentation).
- 2006 Mechanisms of three-dimensional ocular control as revealed in patients with skew deviation. The 32nd Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Fesharaki M, Tweed D, Sharpe JA, **Wong AM**. February 25 – March 2, 2006. (Trainee Presentation).
- 2006 Vergence eye-movements and motion visual processing in infantile esotropia. The 32nd Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Tucson, Arizona, United States. Presenter(s): Sapir-Pichhadze R, Eizenman M, Westall C, **Wong AM**. February 25 –March 2, 2006. (Trainee Presentation).
- 2005 Cerebellar skew deviation and the torsional vestibulo-ocular reflex. The 57th Annual American Academy of Neurology (AAN) Meeting. Miami Beach, Florida, United States. Presenter(s): Sharpe JA, **Wong AM**. April 9-16, 2005.
- 2005 Cerebellar skew deviation and the torsional vestibulo-ocular reflex. The 31st Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Copper Mountain, Colorado, United States. Presenter(s): **Wong AM**, Sharpe JA. February 12-17, 2005.
- 2004 Effects of Early Correction for Infantile Esotropia on Cerebral Sensory and Ocular Motor Development. Clinical Eye Movements Society Meeting. Toronto, Ontario, Canada. Presenter(s): **Wong AM**, Burkhalter A, BradleyD, Tychsens L.
- 2004 Frozen eyes and muscle cramps. International Neuro-Ophthalmology Society (INOS) Meeting. Geneva, Switzerland. Presenter(s): Wong M, Sharpe JA, **Wong AM**. June 18-22, 2004.
- 2004 Listing's law and cranial fourth nerve palsy, ARVO Special Interest Group Meeting –"Extraocular Mechanics: Great Debates About Structure, Modeling, and Neural Control". The Association of Research in Vision and Ophthalmology (ARVO) Annual Meeting. Fort Lauderdale, Florida, United States. Presenter(s): **Wong AM**. April 25-29, 2004.
- 2004 Frozen Eyes and Muscle Cramps. The 30th Annual North American Neuro-ophthalmology Society

- (NANOS) Meeting – Frank B. Walsh Session. Orlando, Florida, United States. Presenter(s): Wong M, Sharpe JA, **Wong AM**. March 27 - April 1, 2004.38.
- 2004 Neuroanatomic mechanism for suppression in amblyopic/strabismic monkey: Role of inhibitory horizontal connections. The 30th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Orlando, Florida, United States. Presenter(s): **Wong AM**, Burkhalter A, Tychsen L. March 27 - April 1, 2004.
- 2003 Early Versus Delayed Correction of Infantile Strabismus in Macaque Monkeys: Effects on Motion VEP. The American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 29th Annual Meeting. Hawaii, United States. Presenter(s): Foeller P, **Wong AM**, Bradley D, Tychsen L. March 23-27, 2003.
- 2003 A Unique Cause of Complete Horizontal Gaze Palsy. The 29th Annual North American Neuro-ophthalmology Society (NANOS) Meeting – Frank B. Walsh Session. Salt Lake City, Utah, United States. Presenter(s): Muni R, Wennberg R, **Wong AM**. February 9-13, 2003.
- 2003 Saccades in unilateral peripheral and central sixth nerve palsy. The 29th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Salt Lake City, Utah, United States. Presenter(s): McReelis K, Sharpe JA, **Wong AM**. February 9-13, 2003.
- 2003 Early versus delayed correction of infantile strabismus in macaque monkeys: effects on cerebral ocular motor circuits. The 29th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Salt Lake City, Utah, United States. Presenter(s): **Wong AM**, Burkhalter A, Tychsen L. February 9-13, 2003.
- 2002 Monocular adaptation of the VOR in unilateral fourth nerve palsy. American Academy of Ophthalmology Annual Meeting. Orlando, Florida, United States. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. October 20-13, 2002.
- 2002 Early versus delayed repair of infantile strabismus in macaque monkeys: Effects on cerebral ocular motor circuits. The American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 28th Annual Meeting. Seattle, Washington, United States. March 20-24, 2002.
- 2002 Vertical misalignment in unilateral sixth nerve palsy. The American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 28th Annual Meeting. Seattle, Washington, United States. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. March 20-24, 2002.
- 2002 Adaptive neural mechanism for Listing's law revealed in patients with fourth nerve palsy. The 28th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Copper Mountain, Colorado, United States. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. February 9-14, 2002.
- 2002 Hering is hooked by monocular adaptation of the VOR – lessons from sixth nerve palsy. The 28th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Copper Mountain, Colorado, United States. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. February 9-14, 2002.
- 2001 Vertical misalignment in unilateral sixth nerve palsy. New York Academy of Sciences Conference Neurobiology of Eye Movements: From Molecules to Behavior. Cleveland, Ohio, United States. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. October 4-6, 2001.
- 2001 Opsoclonus: A clinico-pathologic review and a modelling study. St. Louis Children's Hospital. Pediatric Neurology Conference. St. Louis, Missouri, United States. Presenter(s): **Wong AM**.
- 2001 Adaptive neural mechanism for Listing's law revealed in patients with sixth nerve palsy. New York Academy of Sciences Conference Neurobiology of Eye Movements: From Molecules to Behavior. Cleveland, Ohio, United States. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. October 4-6, 2001.
- 2000 Effects of extraocular muscle tenotomy on congenital nystagmus in macaque monkey. The American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 26th Annual Meeting. San Diego, California, United States. Presenter(s): **Wong AM**, Tychsen L. April 12-16, 2000.
- 2000 A comparison of tangent screen, Goldmann and Humphrey perimetry in the detection and localization of occipital lesions. The 26th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Mont Tremblant, Quebec, Canada. Presenter(s): **Wong AM**, Sharpe JA. March 26-30, 2000.

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- 2000 Effects of sixth nerve palsy on the vestibulo-ocular reflex in three dimensions. The 26th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Mont Tremblant, Quebec, Canada. Presenter(s): **Wong AM**, Sharpe JA., Tweed D. March 26-30, 2000.
- 2000 Effects of abducens nerve palsy on Listings law during saccades and fixation. The 26th Annual North American Neuro-ophthalmology Society (NANOS) Meeting. Mont Tremblant, Quebec, Canada. Presenter(s): **Wong AM**, Sharpe JA, Tweed D. March 26-30, 2000.
- 2000 Dancing eyes in three dimensions. The 32nd Annual Frank B. Walsh Meeting. Montréal, Quebec, Canada. Presenter(s): **Wong AM**, Shannon P, Sharpe JA. March 25-26, 2000.
- 1998 Anomalous retinal correspondence: neuroanatomic mechanism in strabismic monkeys and clinical findings in strabismic children. The American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 24th Annual Meeting. Palm Springs, California, United States. Presenter(s): **Wong AM**, Lueder GT, Burkhalter A, Tychsen L. April 4-8, 1998.
- 1998 Representation of the visual field in human occipital cortex: A correlation between magnetic resonance imaging and visual field defects. Association of University Professors of Ophthalmology (AUPO) Resident and Fellow Research Forum. Phoenix, Arizona, United States. Presenter(s): **Wong AM**, Sharpe JA.
- 1994 Retinal detachment following pars plana vitrectomy. The 27th International Congress of Ophthalmology. Toronto, Ontario, Canada. Presenter(s): **Wong AM**, Chen JC. June 26-30, 1994.
- 1994 The use of DNA flow cytometry in uveal malignant melanoma. International Oncology Conference. Toronto, Ontario, Canada. Presenter(s): **Wong AM**, Hodge WG, Corriveau CB, Malcolm G, Deschênes J. June 24-25, 1994.

2. NATIONAL

2.1 Invited Lectures and Other Presentations

- 2016 **Visiting Profesor.** (1) Skew deviation: From the laboratory to bedside; and (2) A practical approach to nystagmus. Department of Ophthalmology, McMaster University. Ontario, Canada.
- 2016 **Jean Milot Lecture.** New insights into amblyopia. 41st Annual Paediatric Ophthalmology Day. CHU Sainte-Justine, University of Montreal, Quebec, Canada.
- 2016 **Keynote Speaker.** Skew deviation: From the laboratory to bedside. 41st Annual Paediatric Ophthalmology Day. CHU Sainte-Justine, University of Montreal, Quebec, Canada.
- 2015 **Invited Speaker.** Behavioral training as new treatment for adult amblyopia: A meta-analysis and systematic review. Canadian Amblyopia Network. Waterloo, ON, Canada.
- 2015 **Invited Speaker.** What's new and exciting in amblyopia. Clinical Update in Pediatrics, Canadian Ophthalmological Society Annual Meeting. Victoria, BC, Canada.
- 2015 **Invited Speaker.** A practical approach to nystagmus. The Canadian Orthoptic Society Annual Meeting. Victoria, BC, Canada.
- 2015 **Invited Speaker.** A practical approach to diplopia and nystagmus. Department of Neurology, McMaster University. Ontario, Canada.
- 2015 **Invited Speaker.** Skew deviation: From the laboratory to bedside. Grand Rounds lecture, McGill University. Montreal, Canada.
- 2014 **Keynote Speaker.** Skew deviation: From the laboratory to bedside. University of Alberta Ophthalmology Research Day. Alberta, Canada.
- 2014 **Invited Speaker.** What's new in childhood strabismus and amblyopia? Pediatric Update Conference. University of Toronto and The Hospital for Sick Children, Toronto, Canada.

- 2013 **Invited Speaker.** Skew deviation: From the laboratory to bedside. Vision Science Research Seminar Series, University of Waterloo. Waterloo, Canada.
- 2013 **The Ron M. H. Pinkerton Lecture.** New insights into amblyopia. Queen's University. Kingston, Canada.
- 2012 **Invited Speaker.** Clinical translation of recommendations from randomized clinical trials on patching regimen for amblyopia. Canadian Amblyopia Network. Toronto, Canada.
- 2011 **The Kaye Lecture.** What's new with skew deviation? University of Saskatchewan. Saskatoon, Canada.
- 2011 **Invited Speaker.** Deficits and adaptations in visuomotor behaviour in amblyopia. "Plastic Vision" Symposium, York University. Toronto, Canada.
- 2011 **Invited Speaker.** What's new with skew deviation? Grand Rounds lecture, Dalhousie University. Halifax, Canada.
- 2010 **Invited Speaker.** What's new with skew deviation? The Canadian Orthoptic Society Annual Meeting. Toronto, Canada.
- 2010 **Invited Speaker.** A new way of looking at amblyopia. Form and Function in Ocular Disease. A Multi-Disciplinary Clinical and Basic Science Symposium. Dalhousie University. Halifax, Canada.
- 2009 **Invited Speaker.** Diagnosing diplopia in adults and children. Congress of the Canadian Neurological Sciences Federation Annual Meeting. Halifax, Canada.
- 2009 **Invited Speaker.** Nystagmus and saccadic dyskinesia. The Canadian Orthoptic Society Annual Meeting. Toronto, Canada.
- 2009 **The Ron M. H. Pinkerton Lecture.** What's new with skew deviation? Queen's University. Kingston, Canada.
- 2009 **Invited Speaker.** New treatments for infantile nystagmus syndrome. Do they work? Rosen Day, Queen's University. Kingston, Canada.
- 2008 **Invited Speaker.** (1) Congenital ocular motor abnormalities; and (2) Pediatric optic nerve disorders. Pediatric Neuro-Ophthalmology Symposium, University of Calgary. Canada.
- 2007 **Invited Speaker.** Crossed eyes in infancy: Can early correction improve visual and eye movement outcomes? University of Waterloo. Waterloo, Canada.
- 2007 **Invited Speaker.** Evidence in favor of early correction for infantile esotropia in an animal model. Controversies Symposium, Annual Meeting of the Canadian Ophthalmological Society. Montreal, Canada.
- 2007 **Invited Speaker.** Crossed eyes in infancy: Can early correction improve visual and eye movement outcomes? University of Western Ontario. London, Canada.
- 2007 **Invited Speaker.** Crossed eyes in infancy: Can early correction prevent the development of sensory and ocular motor deficits? York University. Toronto, Canada.
- 2006 **Invited Speaker.** Effects of early correction for infantile esotropia on cerebral sensory and ocular motor development. University of Ottawa. Ottawa, Canada.
- 2006 **Invited Speaker.** Effects of early correction for infantile esotropia on cerebral sensory and ocular motor development. Center for Vision Research, York University. Toronto, Canada.
- 2006 **Invited Speaker.** Saccadomania. Sally Letson Symposium, University of Ottawa. Ottawa, Canada.
- 2006 **Invited Speaker.** An update on opsoclonus. The Canadian Orthoptics Society Annual 36 Meeting. Toronto, Canada.
- 2005 **Invited Speaker.** Where are we at in understanding infantile esotropia? The Canadian Orthoptics Society Annual Meeting. Edmonton, Alberta, Canada.

- 2005 **Invited Speaker.** A clinico-pathologic, oculographic and modelling study of opsoclonus. University of Montreal. Montreal, Canada.
- 2005 **Invited Speaker.** Is Listing's law neural or mechanical? Controversies Symposium, Annual Meeting of the Canadian Ophthalmological Society.

2.2 Presentations at Meetings and Symposia

- 2017 A school-based program for checking kindergarten children's vision. The Toronto Public Health Convention. Toronto, Ontario, Canada. Presenter(s): Nishimura M, Maurer D, **Wong AM**. March 29-31, 2017.
- 2015 Behavioural training as new treatment for adult amblyopia: A meta-analysis and systematic review. 2015 Annual Meeting of the Canadian Ophthalmological Society. Victoria, British Columbia, Canada. Presenter(s): **Wong AM**, Tsirlin I, Colpa L, Goltz H. June 18-21, 2015.
- 2015 Developmental trajectory of audiovisual integration in children and adults with amblyopia. 2015 Annual Meeting of the Canadian Ophthalmological Society. Victoria, British Columbia, Canada. Presenter(s): **Wong AM**, Narinesingh C, Goltz H, Raashid A. June 18-21, 2015.
- 2015 Pediatric vision screening: How are Ontario primary care physicians doing?. 2015 Annual Meeting of the Canadian Ophthalmological Society. Victoria, British Columbia, Canada. Presenter(s): Le T, Raashid A, Colpa L, Noble J, Ali A, **Wong AM**. June 18-21, 2015. (Trainee Presentation).
- 2013 The prevalence of infantile esotropia in children of Chinese descent. 2013 Annual Meeting of the Canadian Ophthalmological Society. Montreal, Quebec, Canada. Presenter(s): Gonzalez Diaz M, **Wong AM**. June 14-17, 2013. (Trainee Presentation).
- 2012 Have the PEDIG studies changed amblyopia patching regimens? 2012 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Chow A, Jin YP, Colpa L, **Wong AM**. June 26-29, 2012. (Trainee Presentation).
- 2010 Sensitivity and specificity of a new "upright-supine test" to differentiate skew deviation from other causes of vertical strabismus. 2010 Annual Meeting of the Canadian Ophthalmological Society. Quebec City, Quebec, Canada. Presenter(s): **Wong AM**. June 26-29, 2010.
- 2009 The translational vestibulo-ocular reflex in patients with skew deviation. 2009 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Schlenker M, Mirabella G, Goltz H, Kessler P, Blakeman A, **Wong AM**. June 20-24, 2009. (Trainee Presentation).
- 2009 Effects of earth-fixed vs head-fixed target on ocular counterroll. 2009 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Chandrakumar M, Hirji Z, Blakeman A, Goltz H, Mirabella G, **Wong AM**. June 20-24, 2009. (Trainee Presentation).
- 2009 Defining the critical period for eye alignment development in infant primates: Effects of binocular decorrelation. Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Lam K, Foeller P, Bradley D, Tychsen L, **Wong AM**. June 20-24, 2009. (Trainee Presentation).
- 2009 Defining the critical period for smooth pursuit development in infant primates: Effects of binocular decorrelation. 2009 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Le K, Foeller P, Bradley D, Tychsen L, **Wong AM**. June 20-24, 2009. (Trainee Presentation).
- 2009 Treatment of amblyopia using macular stimulation with telescopic magnification. 2009 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Wu J, Nazemi F, Schofield J, **Wong AM**. June 20-24, 2009. (Trainee Presentation).
- 2008 Effects of de-correlated binocular input to the developing brain. Canadian Amblyopia Network Meeting. Hamilton, Canada. Presenter(s): **Wong AM**.

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- 2006 An unusual oculomotor nerve palsy. 2006 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): **Wong, AM**. June 21-24, 2006.
- 2006 Duration of binocular decorrelation predicts the intensity of fusion maldevelopment (latent) nystagmus in strabismic macaque monkeys. 2006 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Richards M, Foeller P, Bradley D, Tychsen L, **Wong AM**. June 21-24, 2006. (Trainee Presentation).
- 2006 Duration of binocular decorrelation predicts the angle of infantile strabismus in macaque monkeys. 2006 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Sin L, Foeller P, Bradley D, Tychsen L, **Wong AM**. June 21-24, 2006. (Trainee Presentation).
- 2006 Duration of binocular decorrelation predicts the severity of nasotemporal pursuit asymmetries in strabismic macaque monkeys. 2006 Annual Meeting of the Canadian Ophthalmological Society. Toronto, Ontario, Canada. Presenter(s): Hasany A, Foeller P, Bradley D, Tychsen L, **Wong AM**. June 21-24, 2006. (Trainee Presentation).
- 2005 Mechanisms of 3-D ocular control as revealed in 37 patients with brainstem and cerebellum lesions. 2005 Annual Meeting of the Canadian Ophthalmological Society. Edmonton, Alberta, Canada. Presenter(s): Fesharaki M, Tweed, D, **Wong AM**. June 22-25, 2005.
- 2001 Opsoclonus in three dimensions: Oculographic, neuropathologic and modelling correlates. Canadian Ophthalmological Society (COS) 64th Annual Meeting and Exhibition. Toronto, Ontario, Canada. Presenter(s): **Wong AM**, Musallam S, Tomlinson RD, Shannon P, Sharpe JA. June 21-24, 2001.
- 2001 Vertical misalignment in unilateral sixth nerve palsy. Canadian Ophthalmological Society (COS) 64th Annual Meeting and Exhibition. Toronto, Ontario, Canada. Presenter(s): **Wong AM**, Tweed D, Sharpe JA. June 21-24, 2001.
- 1997 Representation of the visual field in human occipital cortex: A correlation between magnetic resonance imaging and visual field defects. The Sherbrooke Symposium on Postgraduate Research in Vision and Ophthalmology. Orford, Quebec, Canada. Presenter(s): **Wong AM**, Sharpe JA. October 3-4, 1997.
- 1993 The Oregon approach to health care: Its applicability to Canada. The Fifth Canadian Conference on Health Economics. Regina, Saskatchewan, Canada. Presenter(s): **Wong AM**. August 26-28, 1993.
- 1993 Incidence of retinopathy of prematurity. Canadian Ophthalmological Society (COS) 56th Annual Meeting and Exhibition. Montréal, Quebec, Canada. Presenter(s): **Wong AM**, Usher RH, Tousignant P, Chen JC. June 27-30, 1993.

3. PROVINCIAL

3.1 Invited Lectures and Other Presentations

- 2016 **Keynote Speaker**. What's new in amblyopia. 2016 Vision Institute Annual Fall Conference and Trade Show, Toronto, Canada.
- 2015 **Invited Speaker**. (1) Duane's syndrome vs sixth nerve palsy; (2) Papilledema vs pseudopapilledema. Jack Crawford Day, The Hospital for Sick Children and University of Toronto. Ontario, Canada.
- 2014 **Invited Speaker**. Amblyopia, eyes, and video games. Jack Crawford Day, The Hospital for Sick Children and University of Toronto. Ontario, Canada.
- 2014 **Invited Speaker**. What's new in childhood strabismus and amblyopia? Pediatric Update Conference. Toronto, Ontario, Canada
- 2012 **The David Tomlinson Lecture**. Skew deviation—How does understanding the otolithic system make an ophthalmologist's job easier? Department of Otolaryngology - Head & Neck Surgery, University of Toronto. Toronto, Canada.

- 2010 **Invited Speaker.** Nystagmus - Pearls for differentiating the benign from the ominous. Walter Wright Day, University of Toronto.
- 2009 **Invited Speaker.** Does extraocular muscle tenotomy work for congenital nystagmus? Jack Crawford Day, The Hospital for Sick Children and University of Toronto. Ontario, Canada.
- 2007 **Invited Speaker.** Neural mechanisms of amblyopia and suppression. Jack Crawford Day, The Hospital for Sick Children and University of Toronto. Ontario, Canada.
- 2007 **Invited Speaker.** Infantile strabismus: Diagnosis and Management. Day in Primary Eye Care. Toronto, Ontario, Canada.
- 2007 **Invited Speaker.** The eyes in pregnancy. Walter Wright Day, University of Toronto.
- 2004 **Invited Speaker.** Where are we at in understanding infantile strabismus? Jack Crawford Day, The Hospital for Sick Children and University of Toronto. Ontario, Canada.
- 2003 **Invited Speaker.** Paraneoplastic syndromes of neuro-ophthalmic interest. Walter Wright Day, University of Toronto. Ontario, Canada.
- 2003 **Invited Speaker.** Can the motor deficits seen in infantile esotropia be repaired? The First Hospital for Sick Children Eye Movement Symposium: A Tribute to J. Raymond Buncic. Toronto, Ontario, Canada.

4. LOCAL

4.1 Invited Lectures and Other Presentations

- 2011 **Invited Speaker.** A new way of looking at amblyopia. Neurosciences & Mental Health Program Mini-Symposium. The Hospital for Sick Children. Toronto, Canada.
- 2011 **Invited Speaker.** What's new with skew deviation. Neurology grand rounds. The Hospital for Sick Children. Toronto, Canada.
- 2011 **Invited Speaker.** The joy and challenges of a clinician-scientist career. Comprehensive Research Experience for Medical Students (CREMS) seminar. University of Toronto. Toronto, Canada.
- 2009 **Invited Speaker.** What's new with skew deviation? The 5th Faculty Research Day, Department of Ophthalmology and Vision Sciences, University of Toronto. Toronto, Canada.
- 2009 **Invited Speaker.** An approach to diplopia and nystagmus. Toronto Neurology Update 2009. Division of Neurology, University of Toronto. Toronto, Canada.
- 2008 **Invited Speaker.** Effects of abnormal vision on brain development. Cross Talks seminar. The Hospital for Sick Children. Toronto, Canada.
- 2007 **Invited Speaker.** Crossed eyes in infancy: Can early correction improve visual outcome? Center for Brain and Behavior Symposium, The Hospital for Sick Children Research Institute. Toronto, Canada.
- 2007 **Invited Speaker.** The eyes in pregnancy. Obstetrics and Gynecology Rounds, University of Toronto.
- 2005 **Invited Speaker.** Crossed eyes in infancy: Can early correction prevent the development of sensory and ocular motor deficits? Pediatric Grand Rounds, North York General Hospital. Toronto, Ontario, Canada.
- 2004 **Invited Speaker.** Effects of early surgery for infantile esotropia on cerebral ocular motor development. The Hospital and Sick Children Brain and Behaviour Program meeting. Toronto, Ontario, Canada.
- 2002 **Invited Speaker.** Early versus delayed repair of infantile strabismus in macaque monkeys: Effects on cerebral ocular motor circuits. Grand Rounds. Department of Ophthalmology and Visual Science, Washington University School of Medicine. St. Louis, Missouri, United States.
- 1997 **Invited Speaker.** Neuro-ophthalmologic manifestations of brain tumors. The 14th BMP Symposium on

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Recent Advances in Biomedical Sciences and Technologies: The Brain. Organized by the Chinese Canadian Association of Biomedical Professionals, the Chinese Canadian Medical So.

1993 **Invited Speaker.** The Oregon approach to health care: Its applicability to Canada. Clinical Epidemiology Division, Royal Victoria Hospital, Grand rounds. Montréal, Quebec, Canada.

1990 **Invited Speaker.** Physical morbidity in specific psychiatric disorders: An examination of a state mental health center population. The Sixteenth Annual Greater Boston Undergraduate Psychology Research Paper Conference. Salem, Massachusetts, United States.

F. Research Supervision

1. Undergraduate Education

2015 May - 2015 Aug **Primary Supervisor,** Ivy Ziqian Liu (undergraduate student from University of California), Student's Current Position: BSc student, Student's Current Institution: University of California. *A comparison of a consistent retinal-error and spatial-error on gain-increase saccadic adaptation.*

2015 May - 2015 Aug **Primary Supervisor,** Justin Wong (undergraduate student from Queen's University), Student's Current Position: MSc student, Student's Current Institution: Queen's University. *Luminance and latency: Simultaneity judgement with dichoptic luminance as a technique to investigate perceptual phenomena in amblyopia.*

2014 May - 2014 Aug **Primary Supervisor,** Ivy Ziqian Liu (undergraduate student from University of California), Student's Current Position: BSc student, Student's Current Institution: University of California. *The effects of anisometropic amblyopia on smooth pursuit eye movements.*

2014 May - 2014 Aug **Primary Supervisor,** Justin Wong (undergraduate student from Queen's University), Student's Current Position: MSc student, Student's Current Institution: Queen's University. *Optimizing Ophthalmology: Using Lean principles to maximize the efficiency of patient scheduling in an Ophthalmology clinic.*

2014 May - 2014 Aug **Primary Supervisor,** Jessica Fraser (undergraduate student from University of Western Ontario), Student's Current Position: BHSc student, Student's Current Institution: University of Western Ontario. *Ophthalmology Clinic Uses Lean Methodology to Improve Patient Wait-time: Standardization of Lanes.*

2013 May - 2013 Aug **Primary Supervisor,** Shannon Brent (undergraduate student from Queen's University), Student's Current Position: Epidemiologist. *Smooth pursuit eye movements in humans with infantile esotropia or amblyopia.*

2013 May - 2013 Aug **Primary Supervisor,** Sandra Ho (Optometry student from University of Waterloo), Student's Current Position: Optometrist. Student's Current Institution: Private practice. *Prehension skills in amblyopia.*

2013 May - 2013 Aug **Primary Supervisor,** Daniel Rosenberg (undergraduate student from McGill University), Student's Current Position: MSc student, Student's Current Institution: University of Toronto. *Eye-hand coordination in amblyopia.*

2012 May - 2012 Aug **Primary Supervisor,** Shannon Brent (undergraduate student from Queen's University), Student's Current Position: Epidemiologist. *Smooth pursuit eye movements in humans with infantile esotropia or amblyopia.*

2012 May - 2012 Aug **Primary Supervisor,** Sandra Ho (Optometry student from University of Waterloo), Student's Current Position: Optometrist. Student's Current Institution: Private practice. *Prehension skills in amblyopia.*

2011 May - 2011 Aug **Primary Supervisor,** Dan Nichol (undergraduate co-op student from University of Waterloo), Student's Current Position: Industry. *Early vs standard surgery for infantile esotropia in humans: Effects on motion VEP.*

2011 May - 2011 Aug **Primary Supervisor,** Sean Kennedy (undergraduate student from University of Toronto), Student's Current Position: Medical student, Student's Current Institution: McMaster University. *Effects of induced monocular blur versus anisometropic amblyopia on saccadic*

- eye movements.
- 2011 May - 2011 Aug **Primary Supervisor**, Elbert Manalo (undergraduate student from McMaster University), Student's Current Position: Industry. *Research productivity of Ophthalmology departments in Canadian and U.S. universities.*
- 2011 Jan - 2011 Apr **Primary Supervisor**, Manuel Candales (undergraduate co-op student from University of Waterloo), Student's Current Position: Industry. *An investigation of abnormal vision in amblyopia using MEG.*
- 2011 Jan - 2011 Apr **Primary Supervisor**, Jacqueline Fromme (undergraduate co-op student from University of Waterloo), Student's Current Position: Industry. *An investigation of abnormal vision in amblyopia using MEG.*
- 2010 Sep - 2010 Dec **Primary Supervisor**, Dawson Overton (undergraduate co-op student from University of Waterloo), Student's Current Position: Industry. *An investigation of abnormal vision in amblyopia using MEG.*
- 2010 May - 2010 Aug **Primary Supervisor**, Dennison Lai (undergraduate student from McMaster University), Student's Current Position: Industry. *Early vs standard surgery for infantile esotropia in humans: Effects on OKN.*
- 2010 May - 2010 Aug **Primary Supervisor**, Amy Chow (undergraduate student from University of Toronto), Student's Current Position: Optometrist. Student's Current Institution: Private practice. *Practice patterns and success rates in the management of amblyopia: A retrospective review of the SickKids experience.*
- 2010 Jan - 2010 Apr **Primary Supervisor**, Luke Wang (undergraduate co-op student from University of Waterloo), Student's Current Position: Industry. Bachelor, *Prehension skills in amblyopia.*
- 2010 Jan - 2010 Apr **Primary Supervisor**, Rutvij Bhatt (undergraduate co-op student from University of Waterloo), Student's Current Position: Industry. *An investigation of abnormal vision in amblyopia using MEG.*
- 2009 Jul - 2010 Jun **Primary Supervisor**, Harleen Bedi (undergraduate student from University of Toronto), Student's Current Position: Ophthalmology resident, Student's Current Institution: University of Toronto. *Retinal feedback and extraretinal factors in programming a corrective saccade during saccades and antisaccades.*
- 2009 May - 2009 Aug **Primary Supervisor**, Matthew Boisjoly (undergraduate student from Queen's University), Student's Current Position: Industry. *An investigation of abnormal vision in amblyopia using MEG.*
- 2008 May - 2008 Aug **Primary Supervisor**, Shelley Kislashko (undergraduate student from York University), Student's Current Position: Nurse. *Timing of correction of infantile esotropia in macaque monkeys: Effects on smooth pursuit.*
- 2008 May - 2008 Aug **Primary Supervisor**, Miyuki Tsukimoto (undergraduate co-op student from McMaster University), Industry. *Prehension skills in amblyopia.*
- 2008 May - 2008 Aug **Primary Supervisor**, Alexander Lin (undergraduate student from University of Western Ontario), Industry. *Three-dimensional VOR in ocular motor nerve palsy.*
- 2008 May - 2008 Aug **Primary Supervisor**, Alton Wong (undergraduate co-op student from University of Waterloo), Industry. *An investigation of abnormal vision in amblyopia using MEG.*
- 2007 Jul - 2008 Jun **Primary Supervisor**, Rana Khalil-ur-Rehman (medical student from Pakistan). *Early versus delayed correction of infantile strabismus in macaque monkeys: Effects on horizontal binocular connections in the striate cortex.*
- 2007 May - 2007 Aug **Primary Supervisor**, Brent Emigh (undergraduate co-op student from McMaster University). *Mechanisms of visual deficits in amblyopia: A magnetoencephalography (MEG) study.*
- 2007 May - 2007 Aug **Primary Supervisor**, Joanne Leung (undergraduate student from University of Western Ontario), Student's Current Position: Family medicine. Student's Current Institution: Private practice. *Ocular-counterroll in healthy human subjects.*
- 2006 Jul - 2008 Jun **Primary Supervisor**, Mano Chandrakumar (undergraduate student from University of Toronto), Student's Current Position: Administrative Assistant, Student's Current Institution: The Hospital for Sick Children. *Ocular counterroll: Effects of earth-fixed vs head-fixed visual stimuli.*

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- 2004 May - 2004 Aug **Primary Supervisor**, Alex Mansfield (undergraduate student from University of Western Ontario), Student's Current Position: Private practice. *The vestibulo-ocular reflex in patients with skew deviation.*
- 2004 May - 2004 Aug **Primary Supervisor**, Aasim Hasany (undergraduate student from University of Toronto), Student's Current Position: MD (Private practice). *Early versus delayed correction of infantile esotropia in macaque monkeys: Effects on pursuit performance.*
- 1999 May - 1999 Aug **Co-Supervisor**, Clarence Yap (medical student from Northwestern University), Student's Current Position: Private practice in USA. *Corneal temperature reversal after storage in Chen medium compared with Optisol GS.*

2. Graduate Education

- 2016 Sep - present **Primary Supervisor**, Afua Oteng-Amoako, Student's Current Position: PhD student. PhD, *The aboriginal vision health study: research program to address the vision health needs of children enrolled in elementary schools on aboriginal reserves in Ontario.*
- 2016 Sep - present **Primary Supervisor**, Marija Zivcevska, Student's Current Position: MSc student. MSc, *Using chromatic pupillometry to probe disease mechanism of photophobia in migraine.*
- 2016 Sep - present **Primary Supervisor**, Elli Weisbaum, Student's Current Position: PhD student. PhD, *Mindfulness in clinical decision making.*
- 2015 Apr **Thesis Examiner**, Lisa Margaret D'Alessandro. PhD, *Developmental plasticity of tonotopic mipsin chinchilla auditory midbrain.* Completed 2015.
- 2015 Apr **PhD Transfer Examiner**, Joseph Catapano. PhD, *Corneal neurotization: studying a novel solution for corneal anesthesia and neurotrophic keratitis.*
- 2014 Aug **Thesis Examiner**, Nikolaus Ernst Wolter. MSc, *The impact of the auditory and visual environments on balance in children with bilateral vestibular loss and cochlear implantation.* Completed 2008.
- 2013 Sep - present **Primary Supervisor**, Michael Richards, MD, Student's Current Position: PhD student. PhD, *Multisensory integration in patients with amblyopia.*
- 2014 Sep - present **Primary Supervisor**, Cindy Narinesingh, Student's Current Position: MSc student. MSc, *An investigation of visuo-auditory integration in patients with amblyopia using the double flash illusion.*
- 2013 Sep - 2015 Aug **Primary Supervisor**, Inna Tsirlin, PhD, Student's Current Position: Industry. Postdoctoral Studies, *Stereopsis in amblyopia.* Completed 2015.
- 2013 Sep - 2015 Dec **Primary Supervisor**, Shaobo Lei, Student's Current Position: Research Associate. MSc, *Towards a chromatic pupillometry protocol for assessing melanopsin-driven post-illumination pupil response in basic science and clinical investigations.* Completed 2015.
- 2012 Sep - 2014 Dec **Primary Supervisor**, Jaime Sklar, Student's Current Position: Medical student, Student's Current Institution: University of Toronto. MSc, *Visuomotor adaptation in anisometropic amblyopia.*
- 2010 Sep - 2012 Aug **Primary Supervisor**, Arham Raashid, Student's Current Position: Medical student, Student's Current Institution: University of Birmingham. MSc, *Short-term saccadic adaptation in patients with amblyopia.* Completed 2012.
- 2011 Aug **Thesis Examiner**, Heather Titley, Student's Current Institution: University of Toronto. PhD, *Understanding the mechanisms of motor learning in the vestibulo-ocular reflex.* Completed 2011.
- 2010 Sep - 2011 Apr **Primary Supervisor**, Luke Gane (MHSc co-op student from University of Toronto), Student's Current Position: Industry. MHSc Clinical Biomedical Engineering, *Prehension skills in amblyopia.*
- 2010 Jun **PhD Transfer Examiner**, Olena Puzyeyeva. PhD, *Anterior and posterior segment vascular changes following laser and anti-VEGF treatment of diabetic retinopathy.*
- 2010 - 2011 **Thesis Committee Member**, Julianna Sienna, Student's Current Position: Radiation Oncology resident. MSc, *Targeted markers for retinal changes in children with Infantile Spasms before and during vigabatrin treatment.*

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- 2008 Oct **Thesis Examiner**, Liam Kaufman. MSc, *Antisaccades: A Probe Into The Dorsolateral Prefrontal Cortex in Alzheimer's Disease*. Completed 2008.
- 2008 Jul - 2011 **Primary Supervisor**, Ewa Nichwiej-Szwedo, PhD, Student's Current Position: Assistant Professor, Student's Current Institution: University of Waterloo. Postdoctoral Studies, *Prehension skills in amblyopia*.
- 2008 - 2011 **Thesis Committee Member**, Dmitri Model, Student's Current Position: Industry. PhD, *Estimation of the point-of-gaze and eye alignment in infants*.
- 2008 Jul - 2011 **Primary Supervisor**, Guiseppe Mirabella, PhD. Postdoctoral Studies, *Deficits in perception of real-world scenes in patients with a history of amblyopia*.
- 2007 Jul - 2010 Sep **Primary Supervisor**, Filomeno Cortese, PhD, Student's Current Position: Research Associate. Postdoctoral Studies, *Role of synchronous and desynchronous neural activities in amblyopia: A magnetoencephalography (MEG) study*.
- 2006 Sep - 2008 Aug **Co-Supervisor**, Chris Zanette, Student's Current Position: MD (Private practice). MSc, *Initiation and maintenance of smooth pursuit eye movements in humans with infantile strabismus*. Completed 2008.
- 2006 Jul - 2007 Jun **Primary Supervisor**, Peter Karagiannis, PhD, Student's Current Position: Research Associate, Student's Current Institution: Osaka University, Osaka, Japan. Postdoctoral Studies, *Deficits and adaptations of three dimensional eye motion before and after surgery for strabismus*. Completed 2007.
- 2005 Sep **PhD Transfer Examiner**, Raquel Heskin. PhD, *Neural mechanisms for recovery of the horizontal vestibulo-ocular reflex from unilateral vestibular damage*.
- 2004 Sep - 2006 Aug **Co-Supervisor**, Maryam Fesharaki, MD, Student's Current Position: Pediatric Neurologist (Private practice). MSc, *Mechanisms of three dimensional ocular control as revealed in patients with skew deviation*. Completed 2006.
- 2003 Sep - 2007 Aug **Thesis Committee Member**, Ewa Nichwiej-Szwedo, Student's Current Position: Assistant Professor, Student's Current Institution: University of Waterloo. PhD, *Afferent and efferent contributions to knowledge of eye positions*. Completed 2008.
- 2002 Dec **Thesis Examiner**, Kai Schreiber, Student's Current Institution: University of Toronto. PhD, *Sensorimotor Interaction in Stereopsis*. Completed 2002.
- 2002 Sep - 2004 Aug **Thesis Committee Member**, Ruth Sapir-Pichhadze, MD, Student's Current Position: Nephrologist (Private practice). MSc, *Vergence eye movements and visual motion processing in infantile esotropia*. Completed 2004.

3. Undergraduate MD

- 2011 May - 2011 Aug **Primary Supervisor**, Harleen Bedi (medical student from University of Toronto), Student's Current Position: Ophthalmology resident, Student's Current Institution: University of Toronto. *Nasotemporal asymmetry during initiation but not steady-state smooth pursuit eye movements in humans with infantile esotropia*.
- 2010 May - 2010 Aug **Primary Supervisor**, Jaspreet Rayat (medical student from Queen's University), Student's Current Position: Ophthalmologist (Private practice). *The high frequency head-thrust response in patients with abducens nerve palsy*.
- 2010 May - 2010 Aug **Primary Supervisor**, Christine Lau (medical student from University of Western Ontario), Student's Current Position: MD (Private practice). *Timing of correction of infantile esotropia in macaque monkeys: Effects on eye movements*.
- 2009 May - 2009 Aug **Primary Supervisor**, Jaspreet Rayat (medical student from Queen's University), Student's Current Position: Ophthalmologist (Private practice). *An investigation of abnormal vision in amblyopia using MEG*.
- 2008 Jul - 2009 Jun **Primary Supervisor**, Kay Lam (medical student from University of Toronto), Student's Current Position: Ophthalmology resident, Student's Current Institution: University of Toronto. *Timing of correction of infantile esotropia in macaque monkeys: Effects on binocular alignment*.
- 2008 Jul - 2009 Jun **Primary Supervisor**, Kim Le (medical student from University of Toronto), Student's Current

- 2008 May - 2008 Aug **Primary Supervisor**, Warren Lewin (medical student from University of Ottawa), Student's Current Position: Family physician (Private practice). *Effects of aging on Listing's law and saccade dynamics.*
- 2007 Jul - 2008 Jun **Primary Supervisor**, Matt Schlenker (medical student from University of Toronto), Student's Current Position: Assistant Professor and Staff Ophthalmologist, University of Toronto. *The high-frequency/acceleration head-heave test in skew deviation.*
- 2007 Jul - 2008 Jun **Primary Supervisor**, Sonilla Gupta (medical student from University of Toronto), Student's Current Position: Family physician (Private practice). *Early versus delayed correction of infantile strabismus in macaque monkeys: Effects on horizontal binocular connections in the striate cortex.*
- 2005 May - 2005 Aug **Primary Supervisor**, Michael Richards (medical student from University of Toronto), Student's Current Position: PhD student, Student's Current Institution: University of Toronto. Pre-Clerkship, *Duration of binocular decorrelation predicts the intensity of fusion maldevelopment (latent) nystagmus in strabismic macaque monkeys.*
- 2005 May - 2005 Aug **Primary Supervisor**, Leo Sin (medical student from Queen's University), Student's Current Position: Family physician (Private practice). *Early versus delayed correction of infantile esotropia in macaque monkeys: Effects on binocular alignment.*

4. Postgraduate MD

- 2016 Jan – 2016 Dec **Primary Supervisor**, Anat Zipori, MD (Pediatric Ophthalmology fellow), Student's Current Position: Ophthalmologist (Private practice). *Postural instability in children with amblyopia and strabismus without amblyopia.*
- 2014 Jul - 2015 Jun **Primary Supervisor**, Abhishek Sharma, MD (Pediatric Ophthalmology fellow), Student's Current Position: Ophthalmologist (Private practice). *Socioeconomic status and utilization of amblyopia services at a tertiary pediatric hospital in Canada.*
- 2013 Jul - 2016 Jun **Primary Supervisor**, Hannah Chiu, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). *Papilledema: Ultrasonography, Photography and Lumbar puncture Study (PUPLS).*
- 2012 Jul - 2014 Jun **Primary Supervisor**, Tran Le, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). *A survey of practice trend: Vision screening in infants, children and youths.*
- 2012 Jul - 2013 Jun **Primary Supervisor**, Maria González-Díaz, MD (Pediatric Ophthalmology fellow), Student's Current Position: Ophthalmologist (Private practice). *Low positive predictive value of referrals for infantile esotropia among children of Chinese descent.*
- 2012 Jul - 2013 Jun **Primary Supervisor**, Shaobo Lei, MD (research fellow), Student's Current Position: Research Associate, Student's Current Institution: The Hospital for Sick Children. *Pupillometry in retinal dystrophy.*
- 2008 Jul - 2009 Jun **Primary Supervisor**, Veit Sturm, MD (research fellow), Student's Current Position: Staff Ophthalmologist, Zurich University Hospital, Switzerland. *Testing visual acuity in infants and young children with a newly developed remote eye tracker.* Completed 2009.
- 2008 Jul - 2009 Jun **Primary Supervisor**, Johnny Wu, MB BS (Hons), MMedSc (Pediatric Ophthalmology fellow), Student's Current Position: Ophthalmologist (Private practice in Australia). *Treatment of amblyopia using macular stimulation with telescopic magnification.*
- 2008 Jul - 2009 Jun **Primary Supervisor**, Sid Chudasama, MD, MSc, Student's Current Position: Family physician (Private practice). *Listing's law: Pre and post-operative changes in patients with fourth nerve palsy.*
- 2007 Jul - 2008 Jun **Primary Supervisor**, Fariba Nazemi, MD, FRCSC (Pediatric Ophthalmology fellow), Student's Current Position: Staff Ophthalmologist, Student's Current Institution: University of Toronto and The Hospital for Sick Children. *Treatment of amblyopia using macular stimulation with telescopic magnification.*

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2007 Jul - 2008 Jun	Primary Supervisor , Matthew Bujak, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). <i>The performance of ocular counterroll in patients with skew deviation.</i>
2007 Jul - 2008 Jun	Primary Supervisor , Davar Nikneshan, MD, Student's Current Position: Neurologist (Private practice). <i>Deficits and adaptations of three dimensional eye motion before and after surgery for strabismus.</i> Completed 2008.
2006 Jul - 2007 Jun	Primary Supervisor , Manoj Parulekar, MB BS (Pediatric Ophthalmology fellow), Student's Current Position: Staff Ophthalmologist, University of Birmingham. <i>Head position-dependent changes in ocular torsion in skew deviation.</i>
2006 Jul - 2007 Jun	Primary Supervisor , Christina Gerth, MD (Neuro-Ophthalmology fellow), Student's Current Position: Ophthalmologist (Private practice in Germany). <i>Early vs delayed surgery for infantile esotropia in human infants: Effects on cortical visual motion processing.</i>
2006 Jul - 2007 Jun	Primary Supervisor , Khaled Abuhaleeqa, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). <i>Ocular-counterroll in healthy human subjects.</i>
2005 Jul - 2006 Jun	Primary Supervisor , Paul Kessler, MD (from Basel, Switzerland), Student's Current Position: Otolaryngologist (Private practice in in Basel, Switzerland). <i>The high-frequency/acceleration head-heave test in detecting otolith diseases.</i> Completed 2006.
2004 Jul - 2005 Jun	Primary Supervisor , Xiaoqing Li, MD, MSc (from Beijing, China), Student's Current Position: Associate Professor of Ophthalmology and Ophthalmologist-in-Chief, Beijing University and Beijing Second Affiliated Hospital, China. <i>Motion VEP and stereopsis in children with infantile esotropia.</i> Completed 2005.
2003 Jul - 2004 Jun	Co-Supervisor , Margaret Wong, MD (Neuro-Ophthalmology fellow), Student's Current Position: Ophthalmologist (Private practice in UK). <i>External ophthalmoplegia in McArdle's syndrome.</i>
2002 Jul - 2003 Jun	Primary Supervisor , Kylan McReelis, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). <i>Saccades in unilateral peripheral and central sixth nerve palsy.</i>
2002 Jul - 2003 Jun	Primary Supervisor , Rajeev Muni, MD (Ophthalmology resident), Student's Current Position: Assistant Professor and Staff Ophthalmologist, University of Toronto and St. Michael's Hospital. <i>Bilateral horizontal gaze palsy in paraneoplastic brainstem encephalitis associated with a benign ovarian teratoma.</i>

G. CLINICAL FELLOWS SUPERVISION

1. NEURO-OPHTHALMOLOGY

2013 - present	Michael Richards (Canada)
2010 - 2011	Arun Reginald (UK)
2006	Christina Gerth, MD (Germany)
2005	Shuan Dai, MD (New Zealand)
2003 - 2004	Margaret Wong, MD (UK)

2. PEDIATRIC OPHTHALMOLOGY AND STRABISMUS

2016 – 2017	Alaa Ali (Kuwait)
2016 – 2017	Susie Luu (Australia)
2016 – 2017	Eoghan Millar (UK)
2015 – 2016	Anat Bachar (Israel)
2015 – 2016	Anne-Marie Yardley (New Zealand)
2015 – 2016	Antony Clark (Australia)
2015 – 2016	Sadik Sherief (Ethiopia)

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2014 - 2015	Alan Connor (UK)
2014 - 2015	Dexter Furlonge (Canada)
2014 - 2015	Abhishek Sharma (UK)
2014 - 2015	Irfan Khan (UK)
2013 - 2014	Diyaa Rachdan (UK)
2013 - 2014	Cherly Ngo (Singapore)
2013 - 2014	Marcela Perez (Chile)
2013 - 2014	Zohreh Noubari (Canada)
2012 - 2013	Mostafa Elgohary (UK)
2012 - 2013	Maria Gonzalez Diaz (Mexico)
2012 - 2013	Caroline Catt (Australia)
2012 - 2013	Rosemary Lambley (UK)
2011 - 2012	Pamela Astudillo (Philippines)
2011 - 2012	Stephanie West (UK)
2011 - 2012	Ayman Abdul Aziz (Jordan)
2011 - 2012	Naira Pereyra (Mexico)
2010 - 2011	Caitriona Kirwan (Ireland)
2010 - 2011	Megan Collins (USA)
2010 - 2011	Robert Henderson (UK)
2010 - 2011	Howard Bunting (UK)
2009 - 2010	Hayat Khan (Guyana)
2009 - 2010	Arun Reginald (UK)
2009 - 2010	Amila De Alwis (Sri Lanka)
2009 - 2010	Michael Jones (Australia)
2008 - 2009	Fazilawati Qamarruddin (Malaysia)
2008 - 2009	Kamiar Mireskandari (UK)
2008 - 2009	Johnny Wu (Australia)
2008 - 2009	Anamika Tandon (India)
2007 - 2008	Diego Ossandon (Chile)
2007 - 2008	Fariba Nazemi (Canada)
2007 - 2008	Ashwin Mallipatna (India)
2007 - 2008	Christina Gerth (Germany)
2006 - 2007	Oseluese Dawodu (Nigeria)
2006 - 2007	Michael O'Connor (Canada)
2006 - 2007	Manoj Parulekar (UK)
2006 - 2007	Hyun Lim (South Korea)
2005 - 2006	Ian Clark (UK)
2005 - 2006	Carlos Solarte (Columbia)
2005 - 2006	Kouros Sabri (Canada)
2005 - 2006	Benjamin Chang (Singapore)
2004 - 2005	Ashwin Reddy (UK)
2004 - 2005	Juan Lopez (Chile)
2004 - 2005	Ayesha Khan (Paskistan)
2004 - 2005	Shuan Dai (New Zealand)
2003 - 2004	Lawrence Gnanaraj (UK)
2003 - 2004	Himanshu Patel (India)

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- 2003 - 2004 Vernon Long (UK)
- 2003 - 2004 Nasrin Tehrani (Canada)
- 2002 - 2003 Shehla Rubab (Pakistan)
- 2002 - 2003 Vasudha Erraguntla (Canada)
- 2002 - 2003 Khaled Emara (Egypt)

H. VOLUNTEER WORK

- 2014 **Honorary Campaign Co-Chairs**, Soaring Beyond: The Campaign for TFS. The Toronto French School, Ontario, Canada
- 2008 Aug **ORBIS International (The Flying Eye Hospital)**, Volunteer Faculty, Harbin, China (in collaboration with the Second Affiliated Hospital of Harbin Medical University)

I. OTHER INTERESTS

I enjoy competitive squash, Tai Chi, golf, painting, music, and reading