

# Curriculum Vitae

**Agnes Ming-Fong Wong**  
**MD, PhD, FRCSC**

**A. Date of Preparation: June 1, 2017**

## **B. Biographical Information**

Primary Office	Department of Ophthalmology and Vision Sciences The Hospital for Sick Children 555 University Avenue Toronto, Ontario, Canada M5G 1X8
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Email	<a href="mailto:agnes.wong@utoronto.ca">agnes.wong@utoronto.ca</a>
Marital status	Married with two sons (James and Stephen)

## **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)

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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

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

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*

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

- 2017 **ARVO Member-in-Training Award for the Best Poster**, Supervisor, Awardee Name: Dr. Shaobo Lei (fellow). Association for Research in Vision and Ophthalmology (ARVO)
- 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. Shaobo Lei (MSc student). University of Toronto
- 2014 **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	<b>Member</b> , Canadian Society for Brain, Behaviour and Cognitive Science
2010 - present	<b>Member</b> , Vision Sciences Society
2006 - present	<b>Member</b> , Center for Vision Research, York University, Toronto, Ontario, Canada
2006 - present	<b>Member</b> , The Bárány Society
2005 - present	<b>Fellow</b> , North American Neuro-Ophthalmological Society
2003 - present	<b>Member</b> , American Association of Pediatric Ophthalmology and Strabismus
2003 - present	<b>Member</b> , Canadian Association of Pediatric Ophthalmologists
2002 - present	<b>Member</b> , Society for Neuroscience
1997 - present	<b>Member</b> , American Academy of Ophthalmology
1995 - present	<b>Member</b> , Canadian Ophthalmological Society
1994 - present	<b>Member</b> , Ontario Medical Association
1993 - present	<b>Member</b> , Association of Research in Vision and Ophthalmology
1999 - 2005	<b>Member</b> , North American Neuro-Ophthalmological Society

### 4.2 Professional Activities

#### INTERNATIONAL

#### ***North American Neuro-Ophthalmology Society (NANOS)***

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

#### ***The Association for Research in Vision and Ophthalmology (ARVO)***

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

#### ***International Society for Eye Research (ISER) Biennial Meeting 2010***

2009 - 2010	<b>Co-Chair</b> , "Amblyopia and Strabismus" section
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#### ***American Association of Pediatric Ophthalmology and Strabismus (AAPOS)***

2006 - 2010	<b>Member</b> , 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.  
*An International Symposium in Honour of Dr. James Sharpe.*

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

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2013 - present	<b>Member</b> , Quality Management Committee
2010 - 2013	<b>Chair</b> , Academic Research Fund Committee, Department of Ophthalmology and Vision Sciences
2003 - 2011	<b>Co-Chair</b> , Education Committee, Department of Ophthalmology and Vision Sciences
2003 - present	<b>Member</b> , Fellows Selection Committee, Department of Ophthalmology and Vision Sciences
2010	<b>Chair</b> , Program Committee, <i>The 21st Jack Crawford Day</i> .
2009	<b>Member</b> , Search Committees for Neuro-Ophthalmology and General Pediatric Ophthalmology Positions, Department of Ophthalmology and Vision Sciences, (Ad hoc)
2007 - 2012	<b>Chair</b> , Residents Evaluation Committee, Department of Ophthalmology and Vision Sciences
2007 - 2009	<b>Member</b> , Academic Research Fund Committee, Department of Ophthalmology and Vision Sciences
2007	<b>Member</b> , Five-year Review Committee of the Department of Ophthalmology and Vision Sciences, (Ad hoc)
2006 - 2007	<b>Member</b> , Medical Staff Committee
2006	<b>Member</b> , Program Head Selection Committee for Neuroscience and Mental Health Program, The Hospital for Sick Children Research Institute (Ad hoc), Toronto.
2003	<b>Co-Chair</b> , Scientific Committee (ad hoc) <i>The First Eye Movement Symposium: A Tribute to J. Raymond Buncic.</i>

#### 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
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##### 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
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##### 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 | <b>Principal Investigator.</b> Screening for eye problems in preschool children. Joanne Angle Investigator Award. Prevent Blindness. 30,000 USD. [Grants].  |
| 2009 Jul - 2012 Jun | <b>Co-Investigator.</b> 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 | <b>Major Collaborator and Consultant.</b> 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]. |

Agnes Ming-Fong WONG

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 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 Guiseppa 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.

Agnes Ming-Fong WONG

12,957. [Grants]

- 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. Richards R, Goltz H, **Wong AM.** Alterations in audiovisual simultaneity perception in amblyopia. PLoS ONE. (Trainee publication, Richards R). **Senior Responsible Author.** In press.
2. 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.** In press.
3. Narinesingh C, Goltz H, **Wong AM.** Temporal binding window of the sound-induced flash illusion in amblyopia. Investigative Ophthalmology and Visual Science. (Trainee publication, Narinesingh C). 2017;58:1442–1448. **Senior Responsible Author.**

4. Lei S, Goltz H, Chen X, Zivcevska M, **Wong AM**. The relation between light-induced lacrimation and the melanopsin-driven post-illumination pupil response. *Investigative Ophthalmology and Visual Science*. 2017;58:1449–1454. **Senior Responsible Author**.
5. 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*. 2017;58:914-92. **Senior Responsible Author**.
6. 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*. 2016;51:452-458 (Trainee publication, Sharma A). **Co-Senior Responsible Author**.
7. 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**.
8. 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**.
9. Weisbrod M, **Wong AM**, Mcreeleis 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**.
10. 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**.
11. **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**.
12. 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**.
13. 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**.
14. 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**.
15. 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**.
16. 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**.
17. 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**.
18. **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**.



19. 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**.
20. 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**.
21. 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**.
22. 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**.
23. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, **Wong AM**. Effects of strabismic amblyopia on visuomotor behaviour: Part II. Visually-guided reaching. *Investigative Ophthalmology and Visual Science*. 2014;55:3857-65. **Senior Responsible Author**.
24. 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**.
25. **Wong AM**. Amblyopia (lazy eye) in children. *Canadian Medical Association Journal*. 2014;186:292. **Principal Author**.
26. **Wong AM**. A practical approach to nystagmus and saccadic oscillations. *Focal Points*. 2014;32(1): Module 1. **Principal Author**.
27. 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**.
28. 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**.
29. 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**.
30. 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**.
31. 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**.
32. 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**.
33. 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**.
34. Gonzalez EG, **Wong AM**, Niechwiej-Szwedo E, Tarita-Nistor L, Steinbach MJ. Eye position stability in amblyopia and in normal binocular vision. *Investigative Ophthalmology and Visual Science*. 2012;53:5386-5394. **Co-Principal Author**.

35. **Wong AM.** New concepts concerning the neural mechanisms of amblyopia and their clinical implications. *Canadian Journal of Ophthalmology.* 2012;47:399–409. **Principal Author.**
36. 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.**
37. 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.**
38. 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.**
39. 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.**
40. 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.**
41. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, Crawford JD, **Wong AM.** Effects of anisometropic 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.**
42. **Wong AM,** Colpa L, Chandrakumar M. Ability of an upright-supine test to differentiate skew deviation from other vertical strabismus causes. *Archives of Ophthalmology.* 2011;129:1570-1575. **Principal Author.**
43. 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.**
44. 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.**
45. Tychsen L, Richards M, **Wong AM,** Foeller P, Bradley D, Burkhalter A. The neural mechanism for latent (fusion-maldevelopment) nystagmus. *Journal of Neuro-Ophthalmology* 2010;30:276-83. (Trainee publication, Richards M). **Co-Senior Responsible Author.**
46. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, Hirji Z, **Wong AM.** Effects of anisometropic amblyopia on visuomotor behavior, I: Saccadic eye movements. *Investigative Ophthalmology and Visual Science.* 2010;51:6348-54 (Trainee publication, Niechwiej-Szwedo E). **Senior Responsible Author.**
47. **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.**
48. Wu J, Nazemi F, Schofield J, Mirabella G, **Wong AM.** Effectiveness of telescopic magnification in the treatment of amblyopia. *Archives of Ophthalmology* 2010;128:297-302. (Trainee publication, Wu J, Nazemi F). **Senior Responsible Author.**
49. 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.**

50. Lei S, Iyengar S, Shan L, Cherwek DH, Murthy S, **Wong AM**. GAPO Syndrome: A first Chinese case associated with bilateral interstitial keratitis and hypothyroidism. *Clinical Dysmorphology* 2010;19:79-81. (Trainee publication, Lei S, Shan L). **Senior Responsible Author**.
51. 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**.
52. Goltz H, Mirabella G, Leung JC, Blakeman A, Colpa L, Abuhaleeqa K, **Wong AM**. Effects of age, viewing distance and target complexity on static ocular counterroll. *Vision Research* 2009;49:1848-1852. (Trainee publication, Leung JC, Abuhaleeqa K). **Senior Responsible Author**.
53. Schlenker M, Mirabella G, Goltz H, Kessler P, Blakeman A, **Wong AM**. The translational vestibulo-ocular reflex in patients with skew deviation. *Investigative Ophthalmology and Visual Science* 2009;50:168-174. (Trainee publication, Schlenker M, Kessler P). **Senior Responsible Author**.
54. Parulekar MV, Dai S, Buncic JR, **Wong AM**. Head position-dependent changes in ocular torsion and vertical misalignment in skew deviation. *Archives of Ophthalmology* 2008;126:899-905. (Trainee publication, Parulekar MV, Dai S). **Senior Responsible Author**.
55. Gerth C, Mirabella G, Li X, Wright T, Westall C, Colpa L, **Wong AM**. Timing of surgery for infantile esotropia in humans: Effects on cortical motion visual evoked responses. *Investigative Ophthalmology and Visual Science* 2008;49:3432-3437. (Trainee publication, Gerth C, Li X). **Senior Responsible Author**.
56. Parulekar MV, Halliday W, Brent M, Kong K, **Wong AM**. Tubular aggregate myopathy associated with retinal degeneration. *Canadian Journal of Ophthalmology* 2008;43:361-363. (Trainee publication, Parulekar MV). **Senior Responsible Author**.
57. Fesharaki M, Karagiannis P, Tweed D, Sharpe JA, **Wong AM**. Adaptive neural mechanism for Listing's law revealed in patients with skew deviation caused by brainstem or cerebellar lesion. *Investigative Ophthalmology and Visual Science* 2008;49:204-214. (Trainee publication, Fesharaki M, Karagiannis P). **Senior Responsible Author**.
58. Sharpe JA, **Wong AM**, Fouladvand M. Ocular motor nerve palsies: Implications for diagnosis and mechanisms of repair. *Progress in Brain Research* 2008;171:59-66. **Co-Principal Author**.
59. Niechwiej-Szwedo E, Gonzalez EG, Verrier MC, **Wong AM**, Steinbach MJ. Localization in the frontal plane is not susceptible to manipulation of afferent feedback via the Jendreassik Maneuver. *Vision Research* 2008;48:724-732. (Trainee publication, Niechwiej-Szwedo E). **Coauthor or Collaborator**.
60. Hasany A, **Wong AM**, Foeller P, Bradley D, Tychsen L. Duration of binocular decorrelation in infancy predicts the severity of nasotemporal pursuit asymmetries in strabismic macaque monkeys. *Neuroscience* 2008; 156:403-11. (Trainee publication, Hasany A). **Co-Senior Responsible Author**.
61. Tychsen L, Richards M, **Wong AM**, Demer J, Bradley D, Burkhalter A, Foeller P. Decorrelation of cerebral visual inputs as the sufficient cause of infantile esotropia. *American Orthoptic Journal* 2008;58:60-69. (Trainee publication, Richards M). **Co-Senior Responsible Author**.
62. Tychsen L, Richards M, **Wong AM**, Foeller P, Burkhalter A, Narasimhan A, Demer J. Spectrum of Infantile Esotropia in Primates: Behavior, Brains and Orbits. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2008;12:375-380. (Trainee publication, Richards M). **Co-Senior Responsible Author**.
63. Richards M, **Wong AM**, Foeller P, Bradley D, Tychsen L. Duration of binocular decorrelation predicts the severity of latent (fusion maldevelopment) nystagmus in strabismic macaque monkeys. *Investigative Ophthalmology and Visual Science* 2008;49:1872-1878. (Trainee publication, Richards M). **Co-Senior Responsible Author**.
64. **Wong AM**. Timing of surgery for infantile esotropia: Sensory and motor outcomes. *Canadian Journal of Ophthalmology* 2008;43:643-651. **Principal Author**.
65. **Wong AM**. An update on opsoclonus. *Current Opinion in Neurology* 2007;20:25-31. **Principal Author**.

66. Niechwiej-Szwedo E, Gonzalez EG, Bahl B, Verrier MC, **Wong AM**, Steinbach MJ. Manipulation of extraocular muscle afference has no effect on higher order perceptual judgments. *Vision Research* 2007;47:3315-3323. (Trainee publication, Niechwiej-Szwedo E). **Coauthor or Collaborator**.
67. Sin L, Tychsen L, Foeller P, Bradley D, **Wong AM**. Early versus delayed correction of infantile strabismus in macaque monkeys: Effects on long-term eye alignment. *Neuro-Ophthalmology* 2007;31:167-169. (Trainee publication, Sin L). **Senior Responsible Author**.
68. Richards M, Tychsen L, Foeller P, Bradley D, **Wong AM**. Early versus delayed correction of infantile strabismus in macaque monkeys: Effects on horizontal binocular connections in the striate cortex. *Neuro-Ophthalmology* 2007;31:171-174. (Trainee publication, Richards M). **Senior Responsible Author**.
69. Kessler P, Tomlinson D, Blakeman A, Rutka J, Ranalli P, **Wong AM**. The high-frequency/acceleration head-heave test in detecting otolith diseases. *Otology & Neurotology* 2007;28:896-904. (Trainee publication, Kessler P). **Senior Responsible Author**.
70. Niechwiej-Szwedoa E, González E, Begae S, Verrier MC, **Wong AM**, Steinbach MJ. Proprioceptive role for palisade endings in extraocular muscles: Evidence from the Jendrassik Maneuver. *Vision Research* 2006;46:2268-2279. (Trainee publication, Niechwiej-Szwedoa E). **Coauthor or Collaborator**.
71. **Wong AM**, McReelis K, Sharpe JA. Saccade dynamics in peripheral versus central sixth nerve palsies. *Neurology* 2006;66:1390-1398. (Trainee publication, McReelis K). **Principal Author**.
72. Eizenman M, Sapir-Pichhadze R, Westall CA, **Wong AM**, Lee H, Morad Y. Eye movement responses to disparity vergence stimuli with artificial monocular scotomas. *Current Eye Research* 2006; 31:471-480. (Trainee publication, Sapir-Pichhadze R). **Coauthor or Collaborator**.
73. **Wong AM**, Burkhalter A, Tychsen L. Suppression of metabolic activity caused by infantile esotropia and strabismic amblyopia in striate visual cortex of macaque monkeys. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2005;9:37-47. **Principal Author**.
74. **Wong AM**, Sharpe JA. Cerebellar skew deviation and the torsional vestibulo-ocular reflex. *Neurology* 2005;65:412-419. **Principal Author**.
75. Sharpe JA, McReelis K, **Wong AM**. Recovery of peripheral versus central nerves identified by saccadic velocity after abducens neuropathy. *Annals of the New York Academy of Sciences* 2005;1039: 417-429. (Trainee publication, McReelis K). **Senior Responsible Author**.
76. Muni RH, Wennberg R, Mikulis DJ, **Wong AM**. Bilateral horizontal gaze palsy in presumed paraneoplastic brainstem encephalitis associated with a benign ovarian teratoma. *Journal of Neuro-Ophthalmology*. 2004;24:114-118. (Trainee publication, Muni RH). **Senior Responsible Author**.
77. Tychsen L, **Wong AM**, Burkhalter A. Paucity of horizontal connections for binocular vision in V1 of naturally-strabismic macaques: Cytochrome-oxidase compartment specificity. *Journal of Comparative Neurology*. 2004;474:261-275. **Co-Principal Author**.
78. Tychsen L, **Wong AM**, Foeller P, Bradley D. Early versus delayed repair of infantile strabismus in macaque monkeys: II. Effects on motion visually evoked potentials. *Investigative Ophthalmology and Visual Science* 2004;45:821-827. **Co-Principal Author**.
79. **Wong AM**. Listing's law: Clinical significance and implications for ocular motor control. *Survey of Ophthalmology* 2004;49:563-575. **Principal Author**.
80. **Wong AM**, Foeller P, Bradley D, Burkhalter A, Tychsen L. Early versus delayed correction of infantile strabismus in macaque monkeys: I. Ocular motor effects. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2003; 7:200-209. **Principal Author**.
81. Sharpe JA, Tweed D, **Wong AM**. Adaptations and deficits in the vestibulo-ocular reflex after peripheral ocular motor palsies. *Annals of the New York Academy of Sciences* 2003; 1004:111-122. **Co-Principal Author**.

82. Guirgis MF, **Wong AM**, Tychsen L. Infantile glaucoma and punctal atresia in a child with caudal regression syndrome. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2003; 7:298-299. **Co-Principal Author.**
83. Guirgis MF, **Wong AM**, Tychsen L. Congenital restrictive external ophthalmoplegia and gustatory epiphora associated with fetal isotretinoin toxicity. *Archives of Ophthalmology* 2002; 120:1094-1095. **Co-Principal Author.**
84. **Wong AM**, Tychsen L. Effects of extraocular muscle tenotomy on congenital nystagmus in macaque monkeys. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2002; 6:100-107. **Principal Author.**
85. **Wong AM**, Tweed D, Sharpe JA. Vertical misalignment in unilateral sixth nerve palsy. *Ophthalmology* 2002; 109:1315-1325. **Principal Author.**
86. **Wong AM**, Tweed D, Sharpe JA. Hyperdeviation and static ocular counterroll in unilateral abducens nerve palsy. *Annals of the New York Academy of Sciences* 2002; 956:523-526. **Principal Author.**
87. **Wong AM**, Tweed D, Sharpe JA. Implementation of Listing's law in patients with unilateral sixth nerve palsy. *Annals of the New York Academy of Sciences* 2002; 956:520-522. **Principal Author.**
88. **Wong AM**, Sharpe JA, Tweed D. Adaptive neural mechanism for Listing's law revealed in patients with fourth nerve palsy. *Investigative Ophthalmology and Visual Science* 2002; 43: 1796-1803. **Principal Author.**
89. **Wong AM**, Tweed D, Sharpe JA. Adaptive neural mechanism for Listing's law revealed in patients with sixth nerve palsy. *Investigative Ophthalmology and Visual Science* 2002; 43:112-119. **Principal Author.**
90. **Wong AM**, Tweed D, Sharpe JA. The vestibulo-ocular reflex in fourth nerve palsy: Deficits and adaptation. *Vision Research* 2002; 42:2205-2218. **Principal Author.**
91. **Wong AM**, Sharpe JA. Adaptations and deficits in the vestibulo-ocular reflex after third nerve palsy. *Archives of Ophthalmology* 2002; 120:360-368. **Principal Author.**
92. **Wong AM**, Tweed D, Sharpe JA. Adaptations and deficits in the vestibulo-ocular reflex after sixth nerve palsy. *Investigative Ophthalmology and Visual Science* 2002; 43:99-111. **Principal Author.**
93. **Wong AM**, Musallam S, Tomlinson RD, Shannon P, Sharpe JA. Opsoclonus in three dimensions: Oculographic, neuropathologic and modelling correlates. *Journal of the Neurological Sciences* 2001; 189:71-81. **Principal Author.**
94. Yap C, **Wong AM**, Naor J, Rootman DS. Corneal temperature reversal after storage in Chen medium compared with Optisol GS. *Cornea* 2001; 20:501-504. (Trainee publication, Yap C). **Co-Principal Author.**
95. **Wong AM**, Sharpe JA. A comparison of tangent screen, Goldmann and Humphrey perimetry in the detection and localization of occipital lesions. *Ophthalmology* 2000; 107:527-544. **Principal Author.**
96. **Wong AM**, Lueder GT, Burkhalter A, Tychsen L. Anomalous retinal correspondence: neuroanatomic mechanism in strabismic monkeys and clinical findings in strabismic children. *Journal of the American Association for Pediatric Ophthalmology and Strabismus* 2000; 4:168-174. **Principal Author.**
97. **Wong AM**, Sharpe JA. Representación del campo visual en la corteza occipital humana. Selected publication for Spanish edition of *Archives of Ophthalmology* 1999; 10:152-162. **Principal Author.**
98. **Wong AM**, Sharpe JA. Representation of the visual field in human occipital cortex: A magnetic resonance imaging and perimetric correlation. *Archives of Ophthalmology* 1999; 117(2):208-217. **Principal Author.**
99. **Wong AM**, Lam WC, Sharpe JA. Tersons syndrome in subarachnoid hemorrhage. *Journal of Neuro-Ophthalmology* 1998; 18(2):148-149. **Principal Author.**
100. **Wong AM**, Héon E. Helicoid peripapillary chorioretinal degeneration associated with abetalipoproteinemia. *Archives of Ophthalmology* 1998; 116(2):250-251. **Principal Author.**

101. **Wong AM**, Sharpe JA. Fourth nerve palsy in migraine. *Neuro-ophthalmology* 1996; 16(1):51-54. **Principal Author**.
102. Lam WC, **Wong AM**, Chen JC. Scleral ectasia in rhegmatogenous retinal detachment. *Canadian Journal of Ophthalmology* 1996; 31(5):241-244. **Co-Principal Author**.
103. **Wong AM**. The inhumanity of “fairness”: Rationing resources for re-constructive breast surgery. *Canadian Medical Association Journal* 1995; 52(4):577-579. **Principal Author**.

## 1.2 Abstracts

1. Richards MD, Goltz HC, **Wong AM**. Audiovisual integration and the temporal ventriloquism effect in amblyopia. 2017. Vision Sciences Society (VSS) 2017 E-Abstract.
2. Goltz HC, Richards MD, **Wong AM**. Unilateral amblyopia and the developmental calibration of sound localization. 2017. Vision Sciences Society (VSS) 2017 E-Abstract.
3. Nishimura M, Maurer D, Wong AM. An evaluation of a school-based screening program to detect amblyopia and refractive errors in kindergarten children. 2017. ARVO 2017 E-Abstract.
4. Lei S, Goltz H, Chen X, Zivcevska M, **Wong AM**. Light-induced tearing reflects the spectral characteristics of melanopsin phototransduction. 2017. ARVO 2017 E-Abstract.
5. Richards M, Goltz H, **Wong AM**. The audiovisual temporal binding window in unilateral amblyopia: monocular and binocular effects. 2016 Vision Sciences Society (VSS) 2016 E-Abstract.
6. Lei S, Goltz HC, 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. 2015. ARVO 2015 E-Abstract.
7. Liu I, Raashid A, Blakeman A, **Wong AM**. The effect of anisometropic amblyopia on initiation of smooth pursuit eye movements. 2015. ARVO 2015 E-Abstract.
8. Lei S, Goltz HC, 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. 2014. APAO Congress 2015 E-Abstract FP-000551.
9. Tsirlin I, Colpa L, Goltz H, **Wong AM**. Dissociation in binocular depth perception: Intact stereopsis is not necessary for the perception of 3D depth. 2014 Neuroscience Meeting Planner. Washington DC: Society for Neuroscience, 2014. Online.
10. Raashid A, Goltz HC, Blakeman A, **Wong AM**. Simulating amblyopic noise: reduction in saccadic adaptation in controls. 2014. ARVO 2014 E-Abstract 5977.
11. Lei S, Goltz HC, Chandrakumar M, **Wong AM**. Full-field chromatic pupillometry in the assessment of the post-illumination pupil response driven by melanopsin-containing retinal ganglion cells. 2014. ARVO 2014 E-Abstract 4110.
12. Sklar JC, Goltz HC, Chandrakumar M, **Wong AM**. Visuomotor adaptation to lateral image displacement using wedge prisms in anisometropic amblyopia. 2014. ARVO 2014 E-Abstract 795.
13. Wan M, Narinesingh C, Goltz HC, Chandrakumar M, **Wong AM**. Integrated visual-auditory perception in amblyopic adults: A study using the McGurk phenomenon. 2014. ARVO 2014 E-Abstract 817.
14. Raashid A, Chandrakumar M, Goltz HC, Blakeman A, **Wong AM**. Temporal pattern of short-term saccadic adaptation in amblyopia. ARVO 2013 E-Abstract 177.
15. Gonzalez E, **Wong AM**, Chandrakumar M, Gane L, Steinbach M. Characteristics of ocular drifts during fixation in amblyopia. ARVO 2013 E-Abstract 178.

16. Gonzalez Diaz M, **Wong AM**. The prevalence of infantile esotropia in children of Chinese descent. ARVO 2013 E-Abstract 5664.
17. **Wong AM**, Goltz HC, Blakeman A, Colpa L. A prospective non-randomized study on early vs standard surgery for infantile esotropia in children: An interim report on optokinetic response. ARVO 2013 E-Abstract 5986.
18. Niechwiej-Szwedo E, Chandrakumar M, Goltz H, **Wong AM**. Eye-hand coordination in strabismic amblyopia and strabismus. Program No. 791.13/VV11. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
19. Gonzalez E, **Wong AM**, Niechwiej-Szwedo E, Tarita-Nistor L, Steinbach M. Fixation stability in patients with amblyopia. ARVO 2012 E-Abstract 3897.
20. Chandrakumar M, Reginald AR, Colpa L, Cotesta M, Panton C, Westall C, **Wong AM**. 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. ARVO 2012 E-Abstract 5463.
21. Kennedy S, Niechwiej-Szwedo E, Colpa L, Chandrakumar M, Goltz HC, **Wong AM**. Effects of induced monocular blur versus anisometropic amblyopia on saccadic eye movements. ARVO 2012 E-Abstract 4861 (Trainee publication, Kennedy S).
22. Niechwiej-Szwedo E, Goltz HC, Chandrakumar M, **Wong AM**. Differential effects of residual stereopsis on saccade and reach initiation during binocular viewing in strabismic amblyopia. ARVO 2012 E-Abstract 3896.
23. Bedi H, **Wong AM**, Chandrakumar M, Goltz HC, Niechwiej-Szwedo E. The role of visual feedback for online trajectory corrections and generation of secondary saccades in the antisaccade task. ARVO 2012 E-Abstract 4862 (Trainee publication, Bedi H).
24. Chow A, Jin YP, Colpa L, **Wong AM**. Practice patterns and efficacy of patching treatment for amblyopia: a Toronto experience. ARVO 2012 E-Abstract 3891 (Trainee publication, Chow A).
25. Raashid A, Chandrakumar M, Goltz HC, Blakeman A, **Wong AM**. Saccadic adaptation in amblyopia. ARVO 2012 E-Abstract 5608 (Trainee publication, Raashid A).
26. **Wong AM**, Niechwiej-Szwedo E, Chandrakumar M, Goltz H. The effects of amblyopia on planning (feedforward) and execution (feedback) of visually-guided reaching movements. IOVS 2011;52:ARVO E-Abstract 3015. (Trainee publication, Niechwiej-Szwedo E).
27. Niechwiej-Szwedo E, Goltz H, Chandrakumar M, **Wong AM**. Saccade latencies in strabismic and anisometropic amblyopia during binocular viewing depend on stereopsis. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online. (Trainee publication, Niechwiej-Szwedo E).
28. Chandrakumar M, Blakeman A, Goltz HC, **Wong AM**. Static ocular counterroll in patients with skew deviation. IOVS 2010;51:ARVO E-Abstract 2532. (Trainee publication, Chandrakumar M).
29. Hirji ZA, Goltz HC, Zanette C, Choi WY, Steeves JKE, **Wong AM**. Effects of target motion perturbation during initiation and steady-state pursuit in humans with infantile esotropia. IOVS 2010;51:ARVO E-Abstract 1583. (Trainee publication, Zanette C, Choi WY).
30. Fu T, Blakeman A, Chandrakumar M, Goltz HC, **Wong AM**. Saccade dynamics in peripheral vs central fourth nerve palsies. IOVS 2010;51:ARVO E-Abstract 2533. (Trainee publication, Fu T, Chandrakumar M).
31. **Wong AM**, Colpa L. Sensitivity and specificity of a new "upright-supine test" to differentiate skew deviation from other causes of vertical strabismus. IOVS 2010;51:ARVO E-Abstract 1582.
32. Cortese F, Goltz HC, Cheyne DO, **Wong AM**. An MEG investigation of binocular vs monocular pattern perception in human amblyopia. 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain. 2010. Abstract # 1489, p53 (Trainee publication, Cortese F).

33. Niechwiej E, Goltz H, Chandrakumar M, Hirji ZA, Colpa L, Crawford JD, **Wong AM**. Deficits in spatiotemporal eye and hand movements in patients with amblyopia during open-loop and closed-loop pointing. Program No. 853.11. 2009 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2009. Online. (Trainee publication, Niechwiej E, Chandrakumar M).
34. Goltz HC, Cortese F, Hirji ZA, Cheyne DO, **Wong AM**. Neural correlates of local and global pattern perception in human amblyopia investigated with MEG. Program No. 756.10. 2009 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2009. Online. (Trainee publication, Cortese F).
35. Hirji ZA, Cortese F, Goltz HC, Cheyne DO, **Wong AM**. Neural correlates of pattern perception in human amblyopia: An MEG study. IOVS 2009;50:ARVO E-Abstract 4707. (Trainee publication, Cortese F).
36. **Wong AM**, Wu J, Nazemi F, Schofield J. Treatment of amblyopia using macular stimulation with telescopic magnification. IOVS 2009;50:ARVO E-Abstract 4751. (Trainee publication, Wu J, Nazemi F).
37. Chandrakumar M, Hirji Z, Blakeman A, Goltz H, Mirabella G, **Wong AM**. Effects of earth-fixed vs head-fixed target on ocular counterroll. IOVS 2009;50:ARVO E-Abstract 2875. (Trainee publication, Chandrakumar M).
38. Lam K, Foeller P, Bradley D, Tychsen L, **Wong AM**. Defining the critical period for eye alignment development in infant primates: Effects of binocular decorrelation. IOVS 2009;50:ARVO E-Abstract 1984. (Trainee publication, Lam K).
39. Le K, Foeller P, Bradley D, Tychsen L, **Wong AM**. Defining the critical period for smooth pursuit development in infant primates: Effects of binocular decorrelation. IOVS 2009;50:ARVO E-Abstract 1208. (Trainee publication, Le K).
40. Niechwiej E, Chandrakumar M, Goltz H, Blakeman A, Mirabella G, **Wong AM**. Effects of earth-fixed vs head-fixed target on ocular counterroll: implications for mechanisms of VOR negation during eye-head pursuit. Program No. 263.13. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online. (Trainee publication, Niechwiej E, Chandrakumar M).
41. Goltz H, Schlenker M, Mirabella G, Kessler P, Blakeman A, **Wong AM**. The translational vestibulo-ocular reflex in patients with skew deviation. Program No. 367.24. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online. (Trainee publication, Schlenker M, Kessler P).
42. **Wong AM**, Bradley D, Foeller P, Tychsen L. Birth-onset vs later-onset infantile strabismus in macaque monkeys: 1 Effects on eye alignment and vergence. Program No. 667.19. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
43. Cortese F, Goltz HC, Hirji Z, Cheyne DO, **Wong AM**. Brain mechanisms of vision in human amblyopia: A magnetoencephalography (MEG) study. *NeuroImage* 2008;41: S180. (Trainee publication, Cortese F).
44. **Wong AM**, Parulekar M, Buncic R, Dai S. Vertical misalignment in skew deviation vs trochlear nerve palsy: dependence on head orientation. IOVS 2008;49:ARVO E-Abstract 1122. (Trainee publication, Parulekar M, Dai S).
45. Schlenker M, Mirabella G, Goltz H, Kessler P, Blakeman A, **Wong AM**. Abnormal head heave response in patients with skew deviation. IOVS 2008;49:ARVO E-Abstract 1801. (Trainee publication, Schlenker M, Kessler P).
46. Goltz H, Leung J, Mirabella G, Abuhaleeqa K, Blakeman A, Colpa L, **Wong AM**. Effects of age, target characteristics, and viewing distance on ocular counterroll in healthy humans [Abstract]. *Journal of Vision*, 8(6):632, 632a, <http://journalofvision.org/8/6/632/>, doi:10.1167/8.6.632. (Trainee publication, Leung J, Abuhaleeqa K).
47. Niechwiej-Szwedo E, Gonzalez EG, **Wong AM**, Verrier MC, Steinbach MJ. The effect of Jendrassik Maneuver on localization responses in the median plane. Program No. 617.16. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online. (Trainee publication, Niechwiej-Szwedo E).
48. Goltz HC, Blakeman AW, Colpa L, Abuhaleeqa K, Leung JC, **Wong AM**. Ocular counterroll in healthy humans. Program No. 720.16. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online. (Trainee publication, Abuhaleeqa K, Leung JC).



49. **Wong AM**, Kessler P, Tomlinson D, Blakeman A, Rutka J, Ranalli P. The high-frequency/acceleration head-heave test in detecting otolith diseases. IOVS 2007;48:ARVO E-Abstract 894. (Trainee publication, Kessler P).
50. Peckford L, Wright T, Gerth C, **Wong AM**. Early vs delayed surgery for infantile esotropia in human infants: Effects on cortical visual motion processing. IOVS 2007;48:ARVO E-Abstract 4868. (Trainee publication, Gerth C).
51. Parulekar MV, Buncic JR, Dai S, **Wong AM**. Head position-dependent changes in ocular torsion in skew deviation. IOVS 2007;48:ARVO E-Abstract 889. (Trainee publication, Parulekar MV, Dai S).
52. **Wong AM**, Richards M, Foeller P, Bradley D, Tychsen L. Binocular image decorrelation and the development of horizontal binocular connections in the striate cortex of macaque monkeys with optically-induced infantile esotropia. Neuro-Ophthalmology 30(6):69; 2006. (Trainee publication, Richards M).
53. **Wong AM**, Sin L, Foeller P, Bradley D, Tychsen L. Binocular image decorrelation induces and predicts the angle of infantile strabismus in macaque monkeys. Neuro-24 Ophthalmology 30(6):68; 2006. (Trainee publication, Sin L).
54. Bradley D, Richards M, **Wong AM**, Foeller P, Tychsen L. Duration of binocular decorrelation predicts the intensity of fusion maldevelopment (latent) nystagmus in strabismic macaque monkeys. Program No. 736.11. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online. (Trainee publication, Richards M).
55. **Wong AM**, Sin L, Foeller P, Bradley D, Tychsen L. Duration of binocular decorrelation predicts the angle of infantile strabismus in macaque monkeys. Program No. 736.12. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online. (Trainee publication, Sin L).
56. Foeller P, Hasany A, **Wong AM**, Bradley D, Tychsen L. Duration of binocular decorrelation predicts the severity of nasotemporal pursuit asymmetries in strabismic macaque monkeys. Program No. 736.13. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online. (Trainee publication, Hasany A).
57. Richards M, **Wong AM**, Foeller P, Bradley D, Tychsen L. Duration of binocular decorrelation predicts the intensity of fusion maldevelopment (latent) nystagmus in strabismic macaque monkeys. IOVS 2006;47:ARVO E-Abstract 2514. (Trainee publication, Richards M).
58. Sin L, **Wong AM**, Foeller P, Bradley D, Tychsen L. Duration of binocular decorrelation predicts the angle of infantile strabismus in macaque monkeys. IOVS 2006;47:ARVO E-Abstract 2451. (Trainee publication, Sin L).
59. Hasany A, **Wong AM**, Foeller P, Bradley D, Tychsen L. Duration of binocular decorrelation predicts the severity of nasotemporal pursuit asymmetries in strabismic macaque monkeys. IOVS 2006;47:ARVO E-Abstract 2452. (Trainee publication, Hasany A).
60. Dai S, **Wong AM**. Congenital cyclic oculomotor palsy with spasms (COPS). Clinical & Experimental Ophthalmology 2005;33 Supplement 1:A84. (Trainee publication, Dai S).
61. **Wong AM**, Foeller P, Bradley D, Tychsen L. Short vs. long durations of infantile strabismus in macaque monkeys: Effects on cerebral conjugate gaze pathways. IOVS 2005;46:ARVO E-Abstract 2957.
62. Sharpe JA, **Wong AM**. The torsional vestibulo-ocular reflex in patients with skew deviation caused by focal cerebellar lesions. IOVS 2005;46:ARVO E-Abstract 2936.
63. Fesharaki M, Tweed D, Sharpe JA, **Wong AM**. Patients with skew deviation have abnormal torsion but obey Listing's law. IOVS 2005;46:ARVO E-Abstract 2921. (Trainee publication, Fesharaki M).
64. **Wong AMF**, Foeller P, Bradley D, Tychsen L. Short vs long durations of infantile strabismus in macaque monkeys: Effects on cerebral conjugate gaze pathways. Program No. 71.16. 2004 Abstract Viewer / Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
65. Tychsen L, Foeller P, Bradley D, **Wong AMF**, Burkhalter A. Short vs long durations of infantile strabismus in macaque monkeys: Effects on intracortical binocular connections. Program No. 66.11. 2004 Abstract Viewer / Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.

66. McReelis K, Sharpe JA, **Wong AM**. Saccades in peripheral and central sixth nerve palsy. *Canadian Journal of Ophthalmology* 39:148, 2004. (Trainee publication, McReelis K).
67. McReelis K, Sharpe JA, **Wong AM**. Saccades in unilateral peripheral and central sixth nerve palsy. *IOVS* 2004;45:ARVO E-Abstract 2513. (Trainee publication, McReelis K).
68. Foeller P, **Wong AM**, Bradley D, Tychsen L. Short versus long durations of infantile strabismus in macaques: effects on stereopsis. *IOVS* 2004;45:ARVO E-Abstract 2544.
69. **Wong AM**, Burkhalter A, Tychsen L. Neuroanatomic mechanism for suppression of the non-dominant eye in striate cortex of amblyopic/strabismic monkey: role of inhibitory horizontal connections. *IOVS* 2003;44:ARVO E-Abstract 4826.
70. Foeller PE, **Wong AM**, Bradley DV, Tychsen L. Early versus delayed repair of infantile strabismus in macaque monkeys: effects on motion VEP. *IOVS* 2003;44:ARVO E-Abstract 4829.
71. **Wong AM**, Tweed D, Sharpe JA. Listing's law and fourth nerve palsy: Deficits and adaptations. Program No. 266.21. 2002 Abstract Viewer / Itinerary Planner. Washington, DC: Society for Neuroscience, 2002. Online.
72. Tychsen L, Burkhalter A, **Wong AM**. Deficits of binocular horizontal interblob connections in V1 of macaque monkeys with infantile esotropia. Program No. 760.19. 2002 Abstract Viewer / Itinerary Planner. Washington, DC: Society for Neuroscience, 2002. Online.
73. Foeller P, Bradley D, **Wong AM**, Tychsen L. Early repair of infantile esotropia in macaque monkeys and horizontal connections in V1. Program No. 760.20. 2002 Abstract Viewer / Itinerary Planner. Washington, DC: Society for Neuroscience, 2002. Online.
74. **Wong AM**, Foeller P, Bradley D, Tychsen L. Early vs delayed repair of infantile strabismus in macaque monkeys: Effects on cerebral ocular motor circuits. *Canadian Journal of Ophthalmology* 2002; 37(2): 105.26.
75. **Wong AM**, Tweed D, Sharpe JA. Is Hering hooked, Monocular adaptation of the vestibulo-ocular reflex in unilateral sixth, fourth and third nerve palsy. *Canadian Journal of Ophthalmology* 2002; 37(2): 97.
76. Sharpe JA, **Wong AM**. The vestibulo-ocular reflex in fourth nerve palsy: Deficits and adaptation. *IOVS* 2002;43:ARVO E-Abstract 2661.
77. **Wong AM**, Tweed D, Sharpe JA. Adaptive neural mechanism for Listing's law revealed in patients with fourth nerve. *IOVS* 2002;43:ARVO E-Abstract 2659.
78. Tychsen L, Burkhalter A, **Wong AM**. Paucity of horizontal connections for binocular vision within primary visual cortex of naturally-strabismic macaque. *IOVS* 2002;43:ARVO E-Abstract 2623.
79. Foeller PE, Bradley DV, **Wong AM**, Tychsen L. Early versus delayed repair of infantile strabismus in macaque monkeys: Effects on cerebral ocular motor circuits. *IOVS* 2002;43:ARVO E-Abstract 216.
80. **Wong AM**, Tweed D, Sharpe JA. Three Dimensional Analysis of Saccade Abnormalities in Unilateral Sixth Nerve Palsy. *Journal of Neuro-Ophthalmology* 2001: 21(2): 152.
81. **Wong AM**, Tweed D, Sharpe JA. Vertical Misalignment and Static Ocular Counterroll in Unilateral Sixth Nerve Palsy. *Journal of Neuro-Ophthalmology* 2001: 21(2): 139.
82. Sharpe JA, **Wong AM**, Tweed D. Three Dimensional Analysis of Saccade Abnormalities in Unilateral Sixth Nerve Palsy. [ARVO abstract] *Investigative Ophthalmology and Visual Science* 2001;42(4):S624. Abstract no. 3352.
83. **Wong AM**, Tweed D, Sharpe JA. Vertical Misalignment and Static Ocular Counterroll in Unilateral Sixth Nerve Palsy. [ARVO abstract] *Investigative Ophthalmology and Visual Science* 2001;42(4):S624. Abstract no. 3351.
84. **Wong AM**, Shannon P, Sharpe JA. Opsoclonus in Three Dimensions: An Oculographic and Neuropathologic Correlation. *Neuro-Ophthalmology* 2000;23(3-4):197.

85. Yap C, **Wong AM**, Naor J, Rootman DS. Corneal temperature reversal after storage in Chen medium compared with Optisol GS. [ARVO abstract] Investigative Ophthalmology and Visual Science 2000;41(4):S447. Abstract no. 2365. (Trainee publication, Yap C).
86. Sharpe JA, **Wong AM**, Tweed D. Effects of sixth nerve palsy on the vestibulo-ocular reflex in three dimensions. [ARVO abstract] Investigative Ophthalmology and Visual Science 2000;41(4):S417. Abstract no. 2205.27.
87. **Wong AM**, Tweed D, Sharpe JA. Effects of abducens nerve palsy on Listing's law during saccades and fixation. [ARVO abstract] Investigative Ophthalmology and Visual Science 2000;41(4):S417. Abstract no. 2204.
88. Sharpe JA, **Wong AM**. Reduced torsional VOR gain after unilateral peripheral sixth nerve palsy. Neurology 1999;52 (Suppl 2):A30.
89. **Wong AM**, Sharpe JA. A comparison of tangent screen, Goldmann and Humphrey perimetry in the detection and localization of cerebral lesions. Neurology 1999;52 (Suppl 2):A33.
90. **Wong AM**, Lueder GT, Burkhalter A, Tychsen L. Anomalous retinal correspondence: neuroanatomic mechanism in strabismic monkeys and clinical findings in strabismic children. Canadian Journal of Ophthalmology 1998;33(2):107.
91. **Wong AM**, Sharpe JA. Representation of the visual field in human occipital cortex: A correlation between magnetic resonance imaging and visual field defects. Canadian Journal of Ophthalmology 1998;33(2):106.
92. **Wong AM**, Lueder GT, Burkhalter A, Tychsen L. Anomalous retinal correspondence: neuroanatomic mechanism in strabismic monkeys and clinical findings in strabismic children. [ARVO abstract] Investigative Ophthalmology and Visual Science 1998;39(4):S327. Abstract no. 1514.
93. **Wong AM**, Rootman DS. In-vitro comparison of a locally prepared corneal storage medium and Optisol: A temperature-reversal experiment. [ARVO abstract] Investigative Ophthalmology and Visual Science 1997;38(4):S861. Abstract no. 4019.
94. Sharpe JA, **Wong AM**. Representation of the visual field in human occipital cortex: A correlation between magnetic resonance imaging and visual field defects. [ARVO abstract] Investigative Ophthalmology and Visual Science 1997; 38 (4):S623. Abstract no. 2906.
95. **Wong AM**, Chen JC. Retinal detachment following pars plana vitrectomy. [ARVO abstract] Investigative Ophthalmology and Visual Science 1995; 36(4):S657. Abstract no. 3006.
96. **Wong AM**, Usher RH, Touseignant P, Chen JC. Incidence of retinopathy of prematurity: Can it be reduced? [ARVO abstract] Investigative Ophthalmology and Visual Science 1994;35(4):1652. Abstract no. 1514.28.

### 1.3 Editorials

1. Brooks BP, Quinn GE, Binenbaum G, Guo S, Holmes JM, Jaafar M, Tarczy-Hornoch K, Jaime T, Wallace DK, **Wong A**, for the American Association for Pediatric Ophthalmology & Strabismus (AAPOS) Research Committee. On the use of "stem cells" for optic nerve hypoplasia. Ophthalmology 2011;118:795-6. **Coauthor or Collaborator**.
2. **Wong AM**. Implications of interocular suppression in the treatment of amblyopia (invited editorial). Journal of the American Association for Pediatric Ophthalmology and Strabismus 2011;15:417-8. **Principal Author**.
3. Lyons C. Surgery for infantile esotropia: how early is early? Canadian Journal of Ophthalmology 2008;43:629. **Acknowledged in Publication (Not Author)**.
4. Brodsky M. Vertical strabismus. Diagnosis from the ground up. Archives of Ophthalmology 2008;126:992-993. **Acknowledged in Publication (Not Author)**.

## 2. NON-PEER-REVIEWED PUBLICATIONS

### 2.1 Journal Articles

1. Bona M, **Wong AM**. The eyes in pregnancy. *Ophthalmology Rounds*. 2007; 5(3):1-6. (Trainee publication, Bona M). **Senior Responsible Author**.
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**.
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. Tsirlin I, Colpa L, Goltz H, **Wong AM**. Visual attention deficits in amblyopia as revealed by visual search. *Journal of Vision*. (Trainee publication, Tsirlin I). **Senior Responsible Author**.

## E. Presentations and Special Lectures

### 1. INTERNATIONAL

#### 1.1 Invited Lectures and Other Presentations

- 2017 **Invited Speaker.** Understanding nystagmus: A practical approach for the clinician. American Academy of Ophthalmology (AAO) Annual Meeting. New Orleans, United States.
- 2017 **Invited Speaker.** Novel treatments for amblyopia in adults – effectiveness, limitations, and risks. German Ophthalmological Society. Berlin, Germany.
- 2017 **Keynote Speaker.** (1) New insights into amblyopia; (2) Skew deviation: From the laboratory to bedside; and (3) Infantile-onset nystagmus: Differentiating the benign from ominous. 2017 Albany Ophthalmology Update, 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 **Invited Speaker.** Evaluating an adult with acute diplopia. 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; (2) Congenital & hereditary optic neuropathy; and (3) My mindfulness journey. Wills Eye Institute. Philadelphia, United States.
- 2014 **Keynote Speaker.** (1) Skew deviation: From the laboratory to bedside; and (2) New insights into amblyopia. 11<sup>th</sup> 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 8<sup>th</sup> Annual Meeting of the British Isles Paediatric Ophthalmology and Strabismus Association. Birmingham, United Kingdom.
- 2014 **Keynote Speaker.** New insights into amblyopia. The 8<sup>th</sup> 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 29<sup>th</sup> Annual Clinical & Scientific Meeting. Australia.
- 2013 **Invited Speaker.** New treatments for infantile nystagmus syndrome. Do they work? Neuro-Ophthalmology Society of Australia 29<sup>th</sup> Annual Clinical & Scientific Meeting. Australia.
- 2013 **Invited Speaker.** Effects of decorrelated binocular input on ocular motor development. Neuro-Ophthalmology Society of Australia 29<sup>th</sup> 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. 58<sup>th</sup> 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

- 2017 The effect of amblyopia on the developmental calibration of sound localization. The 43rd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Washington, DC, United States. Presenter(s): **Wong AM**, Richards M, Goltz H. Apr 1-6, 2017.
- 2017 Characterization of reflex tearing induced by red and blue light stimuli in relation to the post-illumination pupil response. The 43rd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Washington, DC, United States. Presenter(s): Lei S, Chen X, Zivcevska M, Goltz H, **Wong AM**. Apr 1-6, 2017.
- 2017 Postural instability in children with amblyopia and strabismus only without amblyopia. The 43rd Annual North American Neuro-Ophthalmology Society (NANOS) Meeting. Washington, DC, United States. Presenter(s): Zipori A, Colpa L, Cushing S, Gorden K, **Wong AM**. Apr 1-6, 2017.
- 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 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, Pantan 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).
- 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).

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- 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, Zanette 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, Tyachsen 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).
- 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).

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- 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 nerve 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).
- 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.

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- Keystone, Colorado, United States. Presenter(s): Sin L, **Wong AM**, Foeller P, Bradley D, Tychsen 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, Tychsen 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, Tychsen 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, Tychsen 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.

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- 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.
- 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 Listing's 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.



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- 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, Tyachsen 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, Tyachsen 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**.
- 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, Tyachsen 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, Tyachsen 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, Tyachsen 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

- 2017 **Invited Speaker**. "Shaky Eyes" In Infancy: A Practical Approach. Jack Crawford Day, The Hospital for Sick Children and University of Toronto. Ontario, Canada.
- 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.

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- 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 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

- 2016 May - 2016 Aug **Primary Supervisor**, Denis Choy (undergraduate student from Western University), Student's Current Position: BSc student, Student's Current Institution: Western University. *Temporal processing in patients with amblyopia.*
- 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.*
- 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 anisometric 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.*

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 Position: Ophthalmologist (Private practice). *Timing of correction of infantile esotropia in macaque monkeys: Effects on latent nystagmus.*
- 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.*
- 2007 Jul - 2008 Jun **Primary Supervisor**, Matthew Bujak, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). *The performance of ocular counterroll in patients with skew deviation.*
- 2007 Jul - 2008 Jun **Primary Supervisor**, Davar Nikneshan, MD, Student's Current Position: Neurologist (Private practice). *Deficits and adaptations of three dimensional eye motion before and after surgery for strabismus.* 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	<b>Primary Supervisor</b> , 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	<b>Primary Supervisor</b> , Khaled Abuhaleeqa, MD (Ophthalmology resident), Student's Current Position: Ophthalmologist (Private practice). <i>Ocular-counterroll in healthy human subjects.</i>
2005 Jul - 2006 Jun	<b>Primary Supervisor</b> , 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	<b>Primary Supervisor</b> , 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	<b>Co-Supervisor</b> , 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	<b>Primary Supervisor</b> , Kylan McReeelis, 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	<b>Primary Supervisor</b> , 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

2017 - 2018	Ahed Imtirat (Israel)
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)
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)

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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 Kourosh Sabri (Canada)  
2005 - 2006 Benjamin Chang (Singapore)  
2004 - 2005 Ashwin Reddy (UK)  
2004 - 2005 Juan Lopez (Chile)  
2004 - 2005 Ayesha Khan (Pakistan)  
2004 - 2005 Shuan Dai (New Zealand)  
2003 - 2004 Lawrence Gnanaraj (UK)  
2003 - 2004 Himanshu Patel (India)  
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)

Agnes Ming-Fong WONG

## 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 Tai Chi, meditation, golf, painting, music, and reading