

Candidate #4: Patrick Quaid



Biography

Having served as past President of the College of Optometrists (2020–2022) during the COVID-19 pandemic, and carefully navigating the College during these challenging years, highlights leadership qualities. In addition to being in private practice and having an academic background (PhD, post doc background at UWSOVS with a continuing publication record both in Optometry & Ophthalmology journals on topics related to both concussion and vision related learning issues), speaks to dedication to the profession of Optometry. “Right touch” regulation, i.e., a balanced approach that is not overbearing, but also not too lax, is not just beneficial to the public in terms of public protection, but also inspires co-operation from members to encourage a vibrant and successful profession. A successful profession is also of course ultimately in the public interest. Members that have confidence in the regulatory aspect of our profession feel more trust towards and will ultimately engage more with regulators, with a genuine desire to learn and improve - not just “maintain standards”. My approach at the College has always been that it is not a case of “either or” in terms of the “public and the profession”, but more how we cannot just regulate to “minimum standards”, but more importantly inspire excellence using this “right touch” regulation approach. Optometrists are professionals and should be treated as such. Of course, the College’s mandate is public protection, but that matrix involves the genuine buy-in of the profession, while keeping in mind our primary duty of care to the public.

An experience where you contributed to protecting the public interest

An example of where I was involved in a challenging situation that involved public protection was during my tenure as President dealing with a job action during a pandemic. Balancing

public protection with the right of a profession to engage in a job action was the challenge. The balance struck was to ensure that emergency cases were triaged appropriately while ensuring only routine eye examinations were affected, and not emergency care. This was a political tight rope to walk but feel that it was successfully stick handled while ultimately ensuring that the public still had access to emergency care.

CV

Dr. Patrick Quaid

MCOptom(UK), FCOVD(USA), PhD (CAN)

Founder, Director Optometric Services: VUE Vision Therapy

Past President, Ontario College of Optometrists

Board of Directors, Optometry Examining Board of Canada

Board of Directors (President Elect): COVD International

Ontario Superior Court Recognized Expert Witness:

Neuro-Visual Rehabilitation / Neuro-Optometric Rehabilitation

Current Position / Affiliations:

1. **Founder, Head of Optometric Services:** VUE Vision Therapy Clinics
(www.vuetherapy.ca).
2. **Past President (2020-2022), College of Optometrists of Ontario** (Regulatory Body, Canada): Currently remains member of Registration committee
(www.collegeoptom.on.ca)
3. **Director:** Optometry Examining Board of Canada (OEBC, www.oebc.ca)
4. **Executive Committee (President Elect):** COVD International (USA not-forprofit, www.covd.org)

Education / Designations:

2022: Formally recognized Expert Witness by the Ontario Superior Court (as per decision written by Justice Lemon) around Neuro-Visual Rehabilitation / Neuro-

Optometric Rehabilitation

2011: FCOVD USA Board Certification in Neuro-Visual Rehabilitation: Fellow of the College of Optometrist in Vision Development: USA Board Certified.

2006: Post-doctorate in Vision Science: University of Waterloo School of Optometry and York University (Dr. Hugh Wilson & Dr. J.G. Flanagan)

2005: PhD in Vision Science: *University of Waterloo School of Optometry, Ontario, Canada. Doctorate in Vision Science (2005), Dr. J.G. Flanagan.*

2001: MCOptom designation (UK): Professional Registration Year, MCOptom designation awarded (Member of the UK College of Optometrists attained which allows registration in the UK College of Optometrists). Full 4th year done within HES (Hospital Eye Service) within NHS*.

**Bradford Royal Infirmary (until Jan 2002):* Ophthalmology section of UK Hospital Eye Service (HES). Involved co-management of glaucoma and diabetic patients with several ophthalmologists and pre-op and post-op strabismus surgery patients and ABI/concussion patients. Bradford Royal Infirmary & Moorfields, London (UK).

2000: BSc(Hons)Optom: *University of Bradford School of Optometry & Vision Science, West Yorkshire, UK. First class honors degree awarded in Optometry (top ranked out of all 87 in class).*

1997: BMaths: *University of Limerick, Applied Physics & Statistical Mathematics.*

1996: Leaving Certificate *(Rep of Ireland, all Honours subjects taken)*

1993: Junior Certificate *(Rep of Ireland, ranked #1 nationally in National Exams)*

Grants, Awards & Achievements:

2000: Highest overall Optometry marks in 2000 graduating year (University of Bradford Optometry School - 1st Class Honours Degree).

2000: University of Manchester (Dept of Neuroscience) awarded the Naylor Prize for a research paper published in a peer viewed paper as a final year optometry student at

the University of Bradford School of Optometry & Vision Development.

2000: Tom Steele Memorial Prize: Awarded for the highest clinical mark at the University of Bradford for the highest marks in the area of Binocular Vision.

2001: Passed all 10 sections of the UK Professional Qualifying Examinations (PQEs) at the first attempt (National Pass Rate that year was 32%) to obtain UK Optometry License to practice.

2002: Began MSc at the University of Waterloo and accelerated successfully to PhD level mid-2002 and attaining doctorate 3 years total (attaining PhD in 2005).

2003: Passed Canadian Standard Assessment in Optometry (CSAO) to become General Licensure (took examinations concurrently during PhD studies).

2003: Association for Research and Vision in Ophthalmology (ARVO) Travel Fellowship award for Research presented at annual conference in Fort Lauderdale.

2003: Awarded the H. Winston Algate Award for Excellence in Graduate Research at the University of Waterloo in recognition of overall excellent academic standing.

2005: Awarded the Ontario Graduate Scholarship (OGS, \$15,000) from the Ministry for Education (Ontario).

2005: Awarded the University of Waterloo's "Presidential Award" (\$10,000) for demonstrating "outstanding research potential" for PhD thesis work.

2005: Successful application for Glaucoma Research Society Grant (\$12,500).

2005: Association for Research in Vision and Ophthalmology (ARVO) Travel Fellowship awarded (\$5,000 USD).

2005/2006: Post-doctoral grant (\$20,000) awarded by the Canadian Institute for Health and Research (CIHR).

2005/2006: post-doctoral work aided in the development of a commercially available perimeter (Heidelberg Edge Perimeter, \$50,000 funding) with Dr. Flanagan.

2006: Successful renewal application for Glaucoma Research Society Grant (\$12,000) for development of algorithm that considers diastolic blood pressure in NTG. 2006 to

2010: CSAO / CACO Board of Examiners (University of Montreal, Bilingual Examiner) and a designated board exam question writer.

2011: \$5,000 grant from University of New Brunswick for binocular vision research in conjunction with Dr. Andrew Hamilton-Wright.

2010: Award from College of Optometrists in Vision Development (COVD) for "Best Article 2010" for research paper published in Optometry & Vision Development and achieved FCOVD designation in 2011.

2014: BioTalent Canada educational grants and SR&ED grants awarded to the Guelph Vision Therapy Center for innovation: \$45,000 total.

2014/2015: Worked as part of the Touchstone blueprinting group and as a long station OSCE examiner for the Evaluating Examination for International Graduates who have passed credentialing with FORAC / College of Optometrists of Ontario.

2015: SR&ED grant awarded to VUE-cubed network (Provincial Grant) for \$85,000 to track data related to vision related learning issues

2016: SR&ED grant awarded to VUE-cubed network (Provincial Grant) for \$100,000 to track data related to vision related concussion issues.

2017: Opened second clinic in North York for vision rehabilitation within VUE-cubed network.

2017: SR&ED grant awarded to VUE-Cubed VT network (Provincial Grant) for \$115,000 for data tracking related to vision related complications relating to concussion and reading based learning difficulties in school aged children.

2018: SR&ED grant awarded to VUE-Cubed VT Clinics (Provincial Grant) for \$175,000 for tracking data related to therapy outcomes for concussion related cases and reading based learning difficulties in school aged children.

2019: SR&ED grant awarded to VUE Cubed VT Clinics (Provincial Grant) for \$135,000 for tracking data on therapy outcomes using syntonics on concussion related visual dysfunction cases.

2019: Neuro-Optometric Rehabilitation Association (NORA) Research Award of Excellence for Optometric data published on mild traumatic brain injury effects on vision.

2020: SR&ED Grant: \$120,000 from Government of Canada for research pertaining to concussion and vision related learning difficulties awarded (Federal).

2021: SR&ED Grant: \$120,000 from Government of Canada for research pertaining to concussion and vision related learning difficulties awarded (Federal).

Jan 2020 - Jan2022: President of the Ontario Regulatory Optometric Body (College of Optometrists of Ontario, oversees 2,650 Optometrists)

2021: Nominated to be on Executive Committee of COVD International (www.covd.org).

2022: Best Lecture Award: BON Conference (University of Cambridge, UK)

2022: COVD Research Award (\$10k USD): Outcome measures of Optometric Visual Rehabilitation on Pediatric cases of Oculomotor Dysfunction

Publications in Peer Reviewed Journals:

1. Quaid PT, Stonier CL, Cox MJ. Potential Vision Testing – the Relationship between Visual Acuity and Vernier Acuity in the Presence of Simulated Cataract.

Ophthalmic and Physiological Optics, 22, 469-481 (2002).

2. Quaid PT, Flanagan JG. Monocular and Dichoptic Masking Effects on the Frequency Doubling Illusion. *Vision Research*, 44, 661-667 (2004).

3. Quaid PT, Simpson TL, Flanagan JG. Frequency Doubling: Detection versus Resolution. *Optometry & Vision Science*, 82, 36-42 (2005).

4. Quaid PT, Flanagan JG. Defining the limits of flicker defined form: effect of stimulus size, eccentricity and number of random dots. *Vision Research*, 45, 1075-1084 (2005).

5. Lloyd J, Quaid PT, Banh VT, Fortier G, Yassein, W (2009). Management of Diabetic Retinopathy Cases in Canadian Ophthalmic Practice: A Resource for

Eyecare Professionals. *Transitions Partners in Education Series*.

6. Quaid PT, Hamilton-Wright, A. (2010). Diagnosing Extraocular Muscle Dysfunction in Clinic: Comparing Computerized Hess analysis and a Novel 3-step Method. *Optometry & Vision Development*, 41(3), 143-157.
7. Quaid PT, Simpson, TL (2013). Association between Reading Speed, Cycloplegic Refractive Error and Oculomotor Function in Reading Disabled Children versus Controls. *Graefe's Archives of Ophthalmology*, 251(1), 169-187.
8. Quaid PT, Simpson TL, Freddo T. (2013). Relationship between DPP and Progressive Optic Neuropathy as Determined by HRT Topographic Change Analysis. *Investigative Ophthalmology & Vision Science*, 54 (1), 789-798.
9. Hutchison MG, Badovinac SD, Quaid PT (2017). Prevalence of Oculomotor Dysfunction in Healthy Athletes Preseason: Implications for Concussion in Sport. *Vision Development & Rehabilitation*, 3(2), 75-90.
10. Medical Book Chapter (Chapter 15, "Neurosensory Disorders in Mild Traumatic Brain Injury", publisher Elsevier Science), co-authored with Dr. Eric Singman MD PhD (Head of Neuro-Ophthalmology at Johns Hopkins, Baltimore, USA).
11. Alnawmasi et al (2019). The Effect of Mild Traumatic Brain Injury on the visual processing of global form and motion. *Brain Injury*, 3(2), 1-7.
12. Quaid PT & Singman, ES (2022). Post-traumatic headaches and Vision: A Review. *Journal of Neurorehabilitation*, 50, 297-308.
13. Hutchinson, MG & Quaid PT (2022). Incidence of Receded NPC in University Athletes following Sports related Concussion. *Clinical Journal of Sports Medicine*, 2022, 1-6.

Teaching / Examining Experience

(UW = University of Waterloo School of Optometry, * denotes prior):

1. Clinical Medicine in Optometric Practice (3rd Year UW optometry) *

2. Contact Lenses (2nd Year UW optometry) *
3. Binocular Vision (2nd Year UW optometry) lab instructor*
4. Supervising and practicing in the Ocular Health Clinic at UoW (final year optometry students at UW)*
5. Supervising and practicing in the Primary Care Clinic (final year optometry students at UW)*.
6. Supervising and practicing in the Binocular Vision Clinic at UoW (final year students at UoW)*.
7. Clinical Optometry I (UW OPT 152). Clinical Instructor*.
8. Clinical Optometry II (UW OPT 252). Clinical Instructor*.
9. Clinical Supervisor of Optometry students at the Victoria School of Medicine (joint teaching with McMaster School of Medicine and UWSO)*.
10. Scanning laser ophthalmoscopy (HRT) clinic at UW School of Optometry*.
11. Canadian Examiners in Optometry question writing committee (approves board exam questions and writes board examination questions on vision therapy).
12. Canadian Educational Assessment of Healthcare Professionals Educated Abroad (CEHPEA) examiner and blueprinting group (now Touchstone)*
13. UW OPT 477 Guest lecturing (once per term to final years) on rehabilitative vision therapy techniques.
14. University of Toronto Sports Medicine grand rounds (once per month) presenter*

Past Seminars / symposiums:

Over 750 talks given to date to both optometry and medicine both in Canada and Internationally, therefore only more prominent (invited) lectures listed here:

1. Association for Research in Vision and Ophthalmology (ARVO) – May 2003; poster presentation accepted on Monocular and Dichoptic Masking Effects on

the Frequency Doubling Illusion (ARVO travel fellowship also awarded that year).

2. University of Waterloo Conference Day – March 2003 – Frequency Doubling Illusion; Retinal or Cortical?

3. University of Waterloo Conference Day – March 2004; Flicker Defined Form – Spatiotemporal Limits.

4. Association for Research in Vision and Ophthalmology (ARVO) May 2004. Flicker Defined Form – Spatiotemporal Limits.

5. University of Waterloo Conference Day – March 2005; Flicker Defined Form – Effects of Dioptric Blur?

6. Association for Research in Vision and Ophthalmology (ARVO) – May 2005. “The Effects of Dioptric Blur on Flicker Defined Form Phase Contrast Thresholds”. ARVO Travel Fellowship awarded.

7. Association for Research in Vision and Ophthalmology (ARVO) – April 2006. The effect of eccentricity on Flicker Defined Form.

8. Lecture (UW, 2007): Methods of detecting paretic extraocular muscles cases of recent onset double vision.

9. Lecture (UW, 2007): Computerized methods of orthoptic therapy for intermittent strabismus in children.

10. Guest Lecture (UW) 2008: Binocular Vision: A practical approach in clinic in conjunction with computerized methods of assessment.

11. Lecture (2008): College of Opticianry (Barrie, ON): Laser Eye Surgery: A viable option for refractive correction.

12. Guest Lecture (UW) 2009: Making Binocular Vision Therapy feasible in Private Optometric Practice.

13. College of Optometrists in Vision Development (COVD): A novel 3-step test? Annual General Meeting poster presentation (Oct 2009).

14. Huron-Perth District School Board Lecture (Special Educator Teacher's Conference, Nov 2010): Binocular Vision and Learning Disabilities: The Missing Link?
15. Binocular Vision: What is the big deal? Delta Hotel (Guelph) Presented to 3rd Year Optometry Student Guests from the University of Waterloo (Jan 2011).
16. Binocular Vision in the 21st Century. Time for Change? Khan Lecture CE series (April 2011). COPE Approved Lecture.
17. Being an Eyecare Professional in the 21st Century: Binocular Vision – Time for Change? COPE approved Lecture. Delivered in New Brunswick to the NBO (April 2011).
18. Invited: Ontario Association of Optometrists (Toronto Annual Convention) 2012: Binocular Vision in the 21st Century: Where are we at?
19. Invited: Psychology Association of Ontario (University of Guelph) Feb 2012. Learning Impairments and Vision: The Missing Links?
20. Invited (Nov 2012): Interprofessional Rounds (Ivey Institute of Ophthalmology): Blood pressure and Glaucoma: What is the link?
21. Invited (Feb 2013): Brain and Mind Institute (University of Western Ontario): Binocular Vision Dysfunction: The Relationship to TBI and learning difficulties.
22. Invited: (Feb 2013): Thyroid Society of Canada: The Highs and Lows of Thyroid Dysfunction and how they affect Vision.
23. Invited: Medical Concussion Management (University of Toronto Sports Medicine Clinic, Oct 2013): Relationship between Concussion and Binocular Vision Anomalies: Let's address this!
24. Invited Oct 2014: Brain Injury Association of Niagara: Brain Injury Across the Lifespan (sponsored by Upper Law Society of Canada).
25. Invited June 2015: University of Toronto Sports Medicine Grand Rounds

presentation (3x).

26. Invited Nov 2015: Presentation to Ontario Association of Psychologists: How important is the visual aspect of processing in the “pig picture”?

27. Invited 2016: North Eastern States Optometric Congress: Reading and Vision: What is the ultimate connection?

28. Invited 2017: Hamilton Wentworth Catholic District School Board (200 attendees from education, psychology, SLP and from Ministry of Education): Vision and academics: An often-overlooked aspect of learning.

29. Invited to speak in 2015, 2016 and 2017 Academy of Ophthalmic Education events (200 ODs, 350 opticians): Learning disabilities and vision / Concussion and vision (various topics).

30. Invited: 2016 COVD Canada Chapter Annual meeting: Vision & Learning: What you need to know!

31. Invited: 2017 COVD Canada Chapter Annual meeting: Vision & Concussion: Research Update.

32. Invited: COVD International 2018 meeting (Washington USA): What do illusions teach us about the neurology of the visual brain?

33. Invited: Neuro-Optometric Rehabilitation Association (2018): Collaborative Care in Concussion: It Takes A Village!

34. Invited (June 2019): OTLA Presentation (Ontario Trial Lawyers Association), Webinar: What is Rehabilitative Vision Therapy, how it can help the patient, and what you need to know as a litigator.

35. Invited (Sept 2019): Presentation to Canadian Forces Base Officers and NCOs (Trenton): How pupil reactions can be an objective measure of concussion based injury in military personnel.

36. Invited (Sept 2019): Neuro-Optometric Rehabilitation Association (Sept 2019, Scottsdale, AZ): Diagnosis before Prognosis: Going Beyond Visual Acuity in

Visual Rehabilitation.

37. Invited: (May 2020, COVID Lecture on-line), iHeartVT international conference: 2,200 doctors in attendance (MDs and ODs), 2-hr lecture on Vision & Learning: The need to go far beyond “20/20”.

38. Invited: (June 2020), COVID Lecture on-line), iHeartVT international conference: 2,140 doctors in attendance (MDs and ODs), 2-hr lecture on Visual Dysfunction in Concussion: Nothing “mild” about it!

39. Invited (published abstract accepted): Brain & Ocular Nutrition (BON) Conference, Cambridge University (UK): Concussion and Vision: Why the Neurology demands we go WAY beyond “20/20” acuity

40. Berkeley (CA): Golden Conference: Why clinical observation is just as important as randomized clinical trials! Concussion and Education: How visual skills are vital for success in both sports and academics.

41. ACBO Conference *Melbourne, Australia (Keynote speaker). Aug 2023 (scheduled to deliver 10 lectures over two days).

Current research interests:

Oculomotor dysfunction in vision related learning disorders:

Treatment and elimination of double vision, accommodative, tracking / saccadic dysfunction and how these functional visual issues connect with visual processing disorders in reading-based learning difficulty cases.

Oculomotor dysfunction in concussion / mTBI cases: Dr. Quaid’s

interest in this area is specific those with mild traumatic brain injuries / concussion-based injuries without specific findings on neuroimaging. This is mainly due to functional difficulties being missed or entirely dismissed, often resulting in years of persistent symptoms as evidenced by the 3x higher rate of suicide in this patient population. Specific on-going research

pertaining to pupil reactions (as measured by infra-red technology) and their response to different wavelengths of light as well as free space eye movement tracking technologies is also an area of interest currently.

Effects of phototherapy on functional visual fields: Interest in this area stems from Dr. Quaid's interest in psychophysics and visual field analysis from his PhD thesis (phantom contour illusion as described by Dr. VS Ramachandran) and how different wavelengths of light can affect peripheral visual function, in particular motion processing mechanisms.

Pupil Light Reflex (PLR) and Concussion: How pupil reactions and Critical Flicker Fusion (CFF) frequency changes in brain injury. Dr. Quaid has several patents pending on three devices pertaining to PRL measurement. Specific interest includes how PLR appears within 24 hours of injury and changes with or without therapy over time and changes with differing wavelengths of light used.