

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Arshia Eshtiaghi

eRA COMMONS USER NAME (credential, e.g., agency login): N/A

POSITION TITLE: Heed Fellowship

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
McMaster University, Hamilton, Canada	Bachelor of Health Sciences	September 2016	August 2019	Health Sciences
University of Toronto, Canada	Doctor of Medicine	September 2019	July 2023	Medicine
University of Toronto, Canada	Ophthalmology Residency	July 2023	June 2028	Ophthalmology

A. Personal Statement

I am a third-year ophthalmology resident at the University of Toronto. My background prior to ophthalmology involved completing a Bachelor of Health Sciences at McMaster University, followed by a medical degree at the University of Toronto. During medical school, as I was learning about the specialties that interested me most, I became involved in extensive research in both otolaryngology and ophthalmology. I also wrote some chapters in medical textbooks and contributed to the development of my university's medical school curriculum. Entering residency, I had a broad interest in all aspects of general ophthalmology and was involved in various research projects from mentors in all subspecialties. These included leading randomized controlled trials, prospective and retrospective case studies, and meta-analyses. To date, I have published thirty peer-reviewed journal articles and have more than 30 presentations at medical conferences. As a current third year ophthalmology resident, after completing my clinical rotations in various subspecialties and being exposed to complex corneal and anterior segment pathology alongside amazing surgeon preceptors, I found a strong interest in this field. I learned about the rapid growth of the subspecialty in the past few years, and I am very excited for the new innovations in pharmaceutical drugs and corneal surgical techniques that are currently underway worldwide. My current career plans after residency are to complete a fellowship in cornea and external diseases. Afterwards, I hope to: a) use the clinical and surgical skills I gain to improve patient outcomes in the city of Toronto; b) work closely with my academic mentors to enhance ophthalmology education in our residency programs, and c) contribute my part to further the global development of the ever-growing subspecialty.

B. Positions, Scientific Appointments and Honors

Positions

- Ophthalmology residency selection committee at the University of Toronto
- Medical Team Member (assisted ophthalmology examinations and annual vision checks) for the NBA Toronto Raptors Team

-Canadian Medical Association Ambassador
-Member of ORBIS Canada - UofT Chapter

Honors

-Third place at EURETINA 2021 in the best posters category
-Member of Parliament's Outstanding Leadership Award
-Provost Honour Roll for maintaining an A+ GPA for the entire academic year, McMaster U.
-Edwin Marwin Dalley Memorial Scholarship (x2) for high academic standing, McMaster U.
-Les Prince Residence Scholarship for the highest annual average in an undergraduate program, McMaster U.
-McMaster's President's Award for high admission average, McMaster U.

C. Contributions to Science

I have published thirty articles in peer-reviewed journals. Below is the list of publications and corresponding poster presentations. Apart from these, I am currently involved in multiple ongoing cornea-related ophthalmology studies.

- 1) **Eshtiaghi A**, Yau G, Sharma RA, Ing E, Machnowska M, Sunduram AN. Leptomeningeal Carcinomatosis from Triple-Negative Breast Cancer Presenting with Acute Bilateral Optic Neuropathy. *Canadian Journal of Neurological Sciences*. June 2025.
- 2) Hanna A, **Eshtiaghi A**, Sharma RA. Paucisymptomatic Disc Edema in Secondary Syphilis. *Ophthalmology*. December 2025.
- 3) **Eshtiaghi A**, Kapadia A, Sharma RA. Junctional Pattern of Ganglion Cell Loss from Trauma. *Ophthalmology*. October 2025.
- 4) Lena ER, Patil NS, Popovic MM, **Eshtiaghi A**, Dhoot AS, Muni RH, Kertes PJ. Evaluation of Pars Plana Vitrectomy With and Without Supplemental Scleral Buckle for the Repair of Rhegmatogenous Detachment Due to Inferior Retinal Breaks: A Systematic Review. *Ophthalmic Surg Lasers Imaging Retina*. January 2025.
- 5) Felfeli T, Balas M, Tai F, **Eshtiaghi A**, Rhee J, Kaplan AJ, Christakis PG, Mandelcorn ED, Bakshi NK, Rubin LA, Derzko-Dzulynsky LA. Long Term outcomes of noninfectious uveitis treated with systemic immunomodulatory therapy: a retrospective case series. *Canadian Journal of Ophthalmology*. February 2025.
- 6) Felfeli T, Rhee J, **Eshtiaghi A**, Balas M, Tai F, Kaplan AJ, Christakis PG, Mandelcorn ED, Rubin LA, Bakshi NK, Derzko-Dzulynsky LA. Characteristics of ocular hypertension and uveitic glaucoma among patients with noninfectious uveitis. *Canadian Journal of Ophthalmology*. December 2024.
- 7) Felfeli T, **Eshtiaghi A**, Rhee J, Balas M, Tai F, Kaplan AJ, Christakis PG, Dzulynsky K, Monson H, Mandelcorn ED, Rubin LA, Bakshi NK, Derzko-Dzulynsky LA. Clinical characteristics of non-infectious uveitis treated with and without systemic immunomodulatory therapy. *Canadian Journal of Ophthalmology*. October 2024.
- 8) **Eshtiaghi A**, Margolin E, Micieli JA. Inaccuracy of idiopathic intracranial hypertension diagnosis in case reports. *Eye*. October 2023.
- 9) **Eshtiaghi A**, Margolin E, Micieli J. Idiopathic Intracranial Hypertension and Socioeconomic Status in the Greater Toronto Area, Canada. *Journal of Neuro-Ophthalmology*. August 2022.
 - Poster presentation at *University of Toronto Department of Ophthalmology and Vision Sciences Annual Research Day 2022*.
- 10) Sothivannan A, **Eshtiaghi A**, Dhoot A, Popovic M, Garg S, Muni R, Kertes P. Impact of the Time to Surgery on Visual Outcomes for Rhegmatogenous Retinal Detachment Repair: A Meta-Analysis. *American Journal of Ophthalmology*. August 2022.
 - Poster presentation at *EURETINA 2021; Asia-Pacific Vitreo-retina Society Congress 2021; Canadian Retina Society Annual Meeting 2021*.
- 11) Felfeli T, **Eshtiaghi A**, Tai F, Batawi H, Rhee J, Kryshchalskyj M, Dzulynsky K, Bakshi N, Derzko-Dzulynsky L. Optical Coherence Tomography Features in Idiopathic Non-Infectious Intermediate, Posterior, or Panuveitis. *Retina*. July 2022.
 - Oral presentation at *COS Annual Meeting and Exhibition 2022*.
- 12) **Eshtiaghi A**, Zaslavsky K, Nicholson P, Margolin E. Extent of transverse sinus stenosis does not predict visual outcomes in idiopathic intracranial hypertension. *Eye*. July 2022.
 - Poster presentation at *North American Neuro-Ophthalmology Society Annual Meeting 2021*.
- 13) Dhoot A, Popovic M, Nichani P, **Eshtiaghi A**, Mihalache A, Sayal A, Yu H, Wykoff C, Kertes P, Muni R. Pars plana vitrectomy versus scleral buckle: A comprehensive meta-analysis of 15,947 Eyes. *Survey of Ophthalmology*. July 2022.

- Poster presentation at *COS Annual Meeting and Exhibition 2022*; *Asia-Pacific Vitreo-retina Society Congress 2021*; *Canadian Retina Society Annual Meeting 2021*; *EURETINA 2021*.
- 14) Nichani P, Dhoot A, Popovic M, **Eshtiaghi A**, Mihalache A, Sayal A, Yu H, Wykoff C, Kertes P, Muni R. Scleral Buckling Alone or in Combination with Pars Plana Vitrectomy for Rhegmatogenous Retinal Detachment Repair: A Meta-Analysis of 7212 Eyes. *Ophthalmologica*. May 2022.
 - Poster presentation at *COS Annual Meeting and Exhibition 2022*; *University of Toronto Department of Ophthalmology and Vision Sciences Annual Research Day 2022*; *Canadian Retina Society Annual Meeting 2021*; *EURETINA 2021*; *Asia-Pacific Vitreo-retina Society Congress 2021*.
 - 15) **Eshtiaghi A**, Popovic M, Sothivannan A, Muni R, Kertes P. Statin Use and The Incidence of Age-Related Macular Degeneration: A Meta-Analysis. *Retina*. April 2022.
 - Poster presentation at *EURETINA 2021*; *University of Toronto Department of Ophthalmology and Vision Sciences Annual Research Day 2021*.
 - 16) Koushan K, **Eshtiaghi A**, Fung P, Berger A, Chow D. Treatment of Diabetic Macular Edema with Aflibercept and Micropulse Laser (DAM Study). *Clin Ophthalmol*. April 2022.
 - Poster presentation at University of Toronto Medical Student Research Day 2021.
 - 17) **Eshtiaghi A**, Nguyen M, Micieli J. Sixth Nerve Palsy as the Presenting Sign of Delayed Melanoma Recurrence. *Canadian Journal of Neurological Sciences*. March 2022.
 - 18) **Eshtiaghi A**, Micieli JA. Hemodialysis-Related Vision Loss from Anterior Ischemic Optic Neuropathy. *Case Rep Nephrol Dial*. March 2022.
 - 19) Donaldson L, **Eshtiaghi A**, Sacco S, Micieli J, Margolin E. Junctional Scotoma and Patterns of Visual Field Defects Produced by Lesions Involving the Optic Chiasm. *Journal of Neuro-Ophthalmology*. March 2022.
 - Poster presentation at *North American Neuro-Ophthalmology Society Annual Meeting 2021*.
 - 20) **Eshtiaghi A**, Dhoot AS, Mihalache A, Popovic M, Nichani P, Sayal A, Yu H, Wykoff C, Kertes P, Muni R. Pars Plana Vitrectomy with and without Supplemental Scleral Buckle for the Repair of Rhegmatogenous Retinal Detachment: A Meta-analysis. *Ophthalmol Retina*. February 2022.
 - Poster presentation at *COS Annual Meeting and Exhibition 2022*; *Asia-Pacific Vitreo-retina Society Congress 2021*; *Canadian Retina Society Annual Meeting 2021*; *EURETINA 2021* (**Awarded third place - posters category**).
 - 21) **Eshtiaghi A**, Issa M, Popovic M, Muni R, Kertes P. Geographic Atrophy Incidence and Progression Following Intravitreal Injections of Anti-Vascular Endothelial Growth Factor Agents for Age-Related Macular Degeneration: A Meta-Analysis. *Retina*. December 2021.
 - Poster presentation at *American Academy of Ophthalmology Annual Meeting 2021*; *Canadian Ophthalmological Society Annual Meeting and Exhibition 2021*; *EURETINA 2020*.
 - 22) Zaslavsky K, **Eshtiaghi A**, Jeeva-Patel T, Christakis P, Margolin E. Bitemporal Hemianopia Secondary to Acute Zonal Occult Outer Retinopathy. *Journal of Neuro-Ophthalmology*. December 2021.
 - 23) Farahvash A, Popovic M, **Eshtiaghi A**, Kertes P, Muni R. Combined Versus Sequential Phacoemulsification and Pars Plana Vitrectomy: A Meta Analysis. *Ophthalmology Retina*. November 2021.
 - Poster presentation at *EURETINA 2021*; *Canadian Ophthalmological Society Annual Meeting and Exhibition 2021*.
 - 24) **Eshtiaghi A**, Eapen-John D, Zaslavsky K, Vosoughi R, Murray B, Margolin E. Sleep Quality in Neuromyelitis Optica Spectrum Disorder: A Systematic Review. *International Journal of MS Care*. August 2021.
 - Poster presentation at *University of Toronto Department of Ophthalmology and Vision Sciences Annual Research Day 2021*.
 - 25) **Eshtiaghi A**, Micieli J. Incipient Non-Arteritic Anterior Ischemic optic neuropathy in a Patient with Metastatic Small Cell Lung Cancer. *Case Reports in Ophthalmology*. June 2021.
 - 26) Zaslavsky K, **Eshtiaghi A**, Micieli J. Homonymous OCT-GCIPL Quadrantanopia without a Visual Field Defect. *Ophthalmology*. May 2021.
 - 27) **Eshtiaghi A**, Micieli J. Rapid homonymous hemi-macular atrophy of the optical coherence tomography ganglion cell complex after stroke. *British Medical Journal Case Reports*. April 2021.
 - 28) Arjmand P, Murtaza F, **Eshtiaghi A**, Popovic M, Kertes P, Eng K. Impact of the COVID-19 pandemic on characteristics of retinal detachments: the Canadian Experience. *Canadian Journal of Ophthalmology*. April 2021.
 - Poster presentation at *American Society of Retina Specialists Annual Meeting 2021*.
 - 29) Parikh P, Santaguida P, Macdermid J, Gross A, **Eshtiaghi A**. Comparison of CPG's for the diagnosis, prognosis and management of non-specific neck pain: a systematic review. *BMC Musculoskeletal Disorders*. February 2019.

30) Chen J, Parsons S, Shokrollahi M, Wan A, Vincent A, Yuan Y, Pervez M, Chan W, Xue M, Zhang K, **Eshtiaghi A**, Armstrong D, Bercik P, Moayyedi P, Greenwald E, Ratcliffe E, Huizinga J. Characterization of Simultaneous Pressure Waves as Biomarkers for Colonic Motility Assessed by High-Resolution Colonic Manometry. *Frontiers in Physiology*. September 2018.

D. Scholastic Performance

McMaster University Bachelor of Health Sciences - **3.99 GPA**

Doctor of Medicine - Pass (There are no grades assigned for individual courses in the Canadian Medical School System), final board examination - MCCQE - **97th percentile**

Other - MCAT (522 - **>99th percentile**), USMLE Step 1 - 242; USMLE Step 2 - 255, USMLE Step 3 - 255
OKAP - PGY2 (**96th percentile**), OKAP - PGY3 (**98th percentile**)

YEAR	COURSE TITLE	GRADE
2016-2017	Inquiry I: Introduction - A+ Intro Chemistry I - A+ Psychobiology - A+ Cell & Molecular Biology - A+ Calculus for Science I - A+ Intro Chemistry II - A+ Intro Microeconomics - A+ Intro Macroeconomics - A+	
2017-2018	Organic Chemistry I - A+ Natural Disasters - A+ Inquiry II: Biochemistry - A+ Human Physiology/Anatomy I - A+ Epidemiology - A+ Introductory Physics - A+ Ancient Roots: Medical Terminology - A+ Statistics - A+ Human Physiology/Anatomy II - A+ Cell Biology - A+	
2018-2019	Inquiry III: Advanced Inquiry (Bones) - A+ Critical Appraisal of Medical Literature - A+ Inquiry Project - A+ Communication Skills - A+ Numbers for Life - A+ Health Systems & Health Policy - A Inquiry: Work, Self & Purpose - A+ Intro Music Therapy Practice - A+ Intro Music Therapy Research - A+	