

BIOGRAPHICAL SKETCH

NAME: Hutchinson, Kelly Ann			
eRA COMMONS USER NAME (credential, e.g., agency login): n/a			
POSITION TITLE: Heed Fellowship			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Tennessee at Martin (UTM), Martin, TN, USA	BSc	2008-2010 <i>Transfer to FIU</i>	Biology
Florida International University (FIU), Miami, FL, USA	BSc	08/2012	Biology
University of Ottawa, Ottawa, ON, Canada	BHSc	06/2017	Health Sciences
University of Ottawa, Ottawa, ON, Canada	MSc	06/2019	Human Kinetics, <i>Exercise Physiology</i>
McGill University, Montreal, QC, Canada	MDCM	06/2023	Medicine
Queen’s University, Kingston, ON, Canada	Residency, <i>post-graduate</i>	06/2028 <i>(anticipated)</i>	Ophthalmology

1. PERSONAL STATEMENT

I am a third-year Ophthalmology resident at Queen’s University, having completed my medical degree at McGill University. My research in residency has focused on clinically relevant questions in ophthalmology, particularly emergency eye care, anterior segment disease, and ocular surface pathology. One area of major focus has been a large-scale Emergency Eye Clinic data collection initiative examining referral pathways, access to specialist care, triage quality, diagnostic concordance, and urgent ophthalmic care delivery. Using this dataset, I have worked with multiple medical students to generate research questions and support projects from conception to manuscript submission.

Across my training, I have authored 15 first-author publications and 7 co-authored publications spanning ophthalmology and other clinical disciplines. Within ophthalmology, my work has been published in *Ophthalmology*, *Eye*, *Cornea*, *CMAJ*, and the *Canadian Journal of Ophthalmology*, and presented at national and international meetings. I was honoured to receive the 2025 CSCI/CIHR Resident Research Prize, awarded annually to one resident at each Canadian medical school for the best resident research project conducted during residency training.

Additionally, mentorship is central to my academic identity. I currently serve as the Ophthalmology Resident Research Representative at Queen’s University and value opportunities to support trainee projects, contribute to collaborative research, and teach learners through clinical supervision and formal educational sessions. Early mentorship during my Master’s training fostered my curiosity in research, while clinical mentorship has helped refine my judgment and skills. After residency, I plan to pursue fellowship training in cornea and external disease/anterior segment surgery and to build a career as an academic ophthalmologist integrating surgical care, research, education, and mentorship.

2. POSITIONS, SCIENTIFIC APPOINTMENTS, AND HONORS

Leadership and Service	Institution	Year(s)
Accreditation Resident Lead , Department of Ophthalmology	Queen's U.	2026–ongoing
Mentor , Queen's Medicine Aesculapian Society Mentorship Program	Queen's U.	2025–ongoing
Ophthalmology Resident Representative , Postgraduate Medical Education Resident Advisory Committee	Queen's U.	2024–ongoing
Resident Research Representative , Department of Ophthalmology	Queen's U.	2024–ongoing
Wellness Committee Resident Representative , Department of Ophthalmology	Queen's U.	2025–ongoing
Co-Founder and Co-President, Association of Minimally Invasive Surgery (AMIS) Student Interest Group	McGill U.	2020–2022
Vice-President of Communications, Academic Integration in Healthcare (AIH)	McGill U.	2020–2022

Awards, Scholarships, and Honours	Year(s)	Institution	Value
Canadian Society for Clinical Investigation (CSCI) and Canadian Institutes of Health Research (CIHR) Resident Research Prize	2025	Queen's U.	1,000 CAD
European Society of Cataract & Refractive Surgeons Congress Trainee Bursary	2025	ESCRS	188 EUR
Clerkship Nomination for Best Student Physician in Ophthalmology	2022	McGill U.	—
Best Conference Oral Presentation , Association of Women Surgeons	2021	McGill U.	—
Ives Scholarship	2021	McGill U.	8,000 CAD
George L. Masten Scholarship	2020–2021	McGill U.	2,000 CAD
James H. Cummings Scholarship	2019–2020	McGill U.	2,500 CAD
Canada Graduate Scholarship–Master's (CGS-M), NSERC	2018–2019	U. of Ottawa	17,500 CAD
Ontario Graduate Scholarship (declined)	2018–2019	U. of Ottawa	15,000 CAD
Ontario Graduate Scholarship	2017–2018	U. of Ottawa	15,000 CAD
Admission Scholarship (x2), Graduate Award	2017 & 2018	U. of Ottawa	31,800 CAD
Excellence Scholarship (x2), Graduate Award	2017 & 2018	U. of Ottawa	8,400 CAD
Merit Scholarship (x2), Undergraduate Award	2015 & 2016	U. of Ottawa	2,000 CAD
Undergraduate Research Opportunity Program Award	2014	U. of Ottawa	1,000 CAD
Academic Transfer Scholarship	2010–2012	FIU	5,000 USD
Full Athletic Scholarship, NCAA Div. I Women's Soccer	2010–2012	FIU	80,000 USD
Full Athletic Scholarship, NCAA Div. I Women's Soccer	2008–2010	UTM	70,000 USD

3. CONTRIBUTIONS TO SCIENCE

Contribution 1. Building an ophthalmology-focused research foundation during residency: I have contributed to ophthalmology research focused on emergency eye care, anterior segment disease, and surgical outcomes. This work has generated various manuscripts in progress,

presentations at multiple levels, and mentorship of medical student projects, reflecting my commitment to clinically meaningful research and trainee development.

Selected publications

Nazzicone, K., **Hutchinson, K.A.**, Pucchio, A., Sams, M., Shah, N., Bona, M., Baxter, S., Rullo, J., Curtis, R. (2026). *Emergency Physician-Directed Streamlined Access to Ophthalmology Consultations: Evaluation of a Direct Access Pathway*. **Canadian Journal of Ophthalmology**. (Epub ahead of print)

Hutchinson, K.A., Baxter, S., Mollan, S. (2026). *Drug-Induced Corneal Edema: Amantadine-Associated Toxicity*. **Eye**. (Epub ahead of print)

Hutchinson, K.A., Fine, A., Curtis, R. (2025). *Pigmented Conjunctival Lesions*. **Canadian Medical Association Journal**, 197(30), E958–E959.

Hutchinson, K.A., Wang, A., Curtis, R. (2025). *Meticulous examination leads to prompt excision of a low-grade follicular lymphoma located in the conjunctival fornix*. **Ophthalmology**, S0161-6420(25)00244-1.

Hutchinson, K.A., Singh, H., Baxter, S., Johnson, D. (2025). *Indications and outcomes of intraocular lens exchange in a Canadian population*. **Canadian Journal of Ophthalmology**, 60(2), e309-e311.

Selected presentations

Hutchinson, K.A., Calancie, O., Campbell, R., Awad, S., Bal, M. *The Association of CGM-Derived Glycemic Variability with Treatment-Requiring Diabetic Ocular Disease: A Retrospective Case–Control Study*. **Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting**, Denver, CO, USA. May 2026.

Hutchinson, K.A., Holdsworth, M., Johnson, D. *The Epithelial Thickness Ratio: A Novel OCT-Based Metric for Quantifying Epithelial Changes in Corneal Ectasia*. **European Society of Cataract and Refractive Surgeons (ESCRS) Congress**, Copenhagen, Denmark. September 2025.

Hutchinson, K.A., Singh, H., Baxter, S., Johnson, D. *Intraocular Lens Exchange by Anterior Segment Surgeons in a Tertiary Care Ophthalmology Centre*. **Canadian Ophthalmological Society (COS) Annual Research Meeting**, Vancouver, BC, Canada. June 2025.

Contribution 2. Advancing ophthalmic education and quality improvement through resident teaching presentations: Throughout medical school and residency, I have contributed to ophthalmic education through Grand Rounds, Journal Club, and Morbidity and Mortality presentations. One presentation on ocular chlorhexidine injury identified a patient-safety gap and led to an ongoing national survey and systematic review, reflecting my commitment to education, knowledge translation, and quality improvement.

Selected presentations

Hutchinson, K.A. Grand Rounds: *Microinvasive Glaucoma Surgery for the Comprehensive Ophthalmologist*. Department of Ophthalmology at Queen’s University, Kingston, ON. February 2026. Supervisor: Dr. Delan Jinapriya

Hutchinson, K.A., Anand, R. Grand Rounds: *Beyond non-neovascular AMD: Advances in Care and How AI Compares to Expert Decision-Making*. Department of Ophthalmology at Queen's University, Kingston, ON. November 2025. Supervisor: Dr. Tom Gonder

Hutchinson, K.A. Mortality and Morbidity Rounds: *Corneal Complications Following Perioperative Ocular Chlorhexidine Exposure*. Department of Ophthalmology at Queen's University, Kingston, ON. June 2025. Supervisor: Dr. Davin Johnson.

Hutchinson, K.A. Grand Rounds: *Ocular Syphilis – Presentation, Management and Current Trends*. Department of Ophthalmology at Queen's University, Kingston, ON. March 2025. Supervisor: Dr. Robert Johnson

Hutchinson, K.A. Grand Rounds: *Practical Uses of the OPD-Scan III*. Department of Ophthalmology at Queen's University, Kingston, ON. October 2024. Supervisor: Dr. Davin Johnson

Hutchinson, K.A. *Unilateral vision loss in a pediatric patient; a case of non-physiological vision loss*. Department of Ophthalmology and Visual Sciences at McGill University, Montreal, QC. September 2022. Supervisor: Dr. Davinder Cheema

Contribution 3. Developing a broad clinical research foundation across multiple medical and surgical specialties during medical training: During medical school, I contributed to research in pediatric urology, plastic surgery, otolaryngology, pediatrics, and pulmonary medicine. Across diverse projects, I strengthened skills in study design, evidence synthesis, scientific writing, and interdisciplinary collaboration, while clarifying ophthalmology as the field most aligned with my clinical and academic interests.

Selected publications

Hutchinson, K.A.*, Silver, J.*, Himdi, L. (2025). *A Rare Case of Nasal Lobular Capillary Hemangioma Centered at the Pyriform Aperture*. **Ear, Nose & Throat Journal**, 104(8):472-474. (*co first-authors)

Hutchinson, K.A., Karatzios, C., Sant'Anna, A., Morantz, G. (2023). *Novel Association between SARS-CoV-2 Infection and Acute Hemorrhagic Colitis in a Pediatric Patient: A Case Report*. **Journal of Paediatrics and Child Health**, 59(3), 563-564.

Hutchinson, K.A., Turkdogan, S., Nguyen, L. (2023). *Five things to know about pediatric foreign body aspiration*. **Canadian Medical Association Journal**, 195(9), E333.

Hutchinson, K.A., Guerra, A., Payne, A.E., Turkdogan, S., Forest, V.-A., Hier, M., Payne, R. (2023). *Risk Factors Associated with Re-Operative Surgery for Thyroid Malignancies: A Retrospective Cohort Study*. **Otolaryngology – Head and Neck Surgery**, 168(3), 392-397.

Hutchinson, K.A., Hebert, C-A., Rajaram, A., Fiset, P.O., Schwartzman, K. (2023). *A Case of Organizing Pneumonia Following Treatment with Azacitidine for Myelodysplastic Syndrome*. **McGill Journal of Medicine**, 21(1).

Hutchinson, K.A., Amirali, S.K., Abi-Jaoude, J., Edwards, T., Homsy, C. (2022). *Sleep Quality Among Burn Survivors and the Importance of Intervention: A Systematic Review and Meta-Analysis*. **Journal of Burn Care & Research**, 43(6), 1358-1379.

Hutchinson, K.A., Halili, L., Guerra, A., Geier, P., Guerra, L. (2021). *Renal function in children with a solitary functioning kidney: a systematic review*. **Journal of Pediatric Urology**, 17(4), 556-565.

Contribution 4. Elucidating the relationship between maternal physical activity, placental biology, and the intrauterine environment during pregnancy: During my Master's training, my research focused on how maternal physical activity may influence placental biology and the intrauterine environment. I examined physiologic and mechanistic responses to exercise in pregnancy, including maternal signaling pathways, placental fatty acid transport protein expression, and methods to improve exercise monitoring and prescription in pregnant populations. This work strengthened my foundation in translational research and reinforced my interest in clinically meaningful investigations linking physiology, maternal health, and developmental outcomes.

Selected publications

- Abolbaghaei, A., Mohammad, S., Fernandes da Silva, D., **Hutchinson, K.A.**, Myette, R. L., Adamo, K.B., Burger, D. (2023). *Impact of acute moderate-intensity aerobic exercise on circulating extracellular vesicles in pregnant and non-pregnant women.* **Applied Physiology, Nutrition, and Metabolism**, 48(2), 198-208.
- Mohammad, S., Bhattacharjee, J., Tzaneva, V., **Hutchinson, K.A.**, Shaikh, M., Burger, D., Adamo, K.B. (2023). *The influence of exercise-associated small extracellular vesicles on trophoblasts in vitro.* **Biomedicines**, 11(3).
- Mohammad, S., **Hutchinson, K.A.**, Fernandes da Silva, D., Bhattacharjee, J., McInnis, K., Burger, D., Adamo, K.B. (2021). *Circulating small extracellular vesicles increase after an acute bout of moderate-intensity exercise in pregnant compared to non-pregnant women.* **Scientific Reports**, 11(12615), 1-10.
- Hutchinson, K.A.**, Vuong, N., Mohammad, S., Everest, C., Bhattacharjee, J., Leung, M., Adamo, K.B. (2020). *Physical activity during pregnancy is associated with increased placental FATP4 protein expression.* **Reproductive Sciences**, 27, 1909-1919.
- Fernandes da Silva, D., Mohammad, S., **Hutchinson, K.A.**, Adamo, K. B. (2020). *Cross-validation of ratings of perceived exertion derived from heart rate target ranges recommended for pregnant women.* **International Journal of Exercise Science**, 13(3), 1340-1351.
- Fernandes da Silva, D., Mohammad, S., **Hutchinson, K.A.**, Adamo, K.B. (2020). *Determination of minimal recording period to assess resting heart rate variability during pregnancy.* **Applied Physiology, Nutrition, and Metabolism**, 45(4), 431-436.
- Hutchinson, K.A.** (2019). *Assessing the effect of exercise during pregnancy on myokine response and placental growth and function in vitro (Published Master's Thesis).* University of Ottawa, Ottawa, ON.
- Hutchinson, K.A.**, Mohammad, S., Garneau, L., McInnis, K., Aguer, C., Adamo, K.B. (2019). *Examination of the myokine response in pregnant and non-pregnant women following an acute bout of moderate-intensity walking.* **Frontiers in Physiology**, 10, 1188.
- Halili, L., Liu, R., **Hutchinson K.A.**, Semeniuk, K., Adamo, K.B. (2018). *Development and pilot evaluation of a pregnancy-specific mobile health tool: a qualitative investigation of SmartMoms Canada.* **BMC Medical Informatics and Decision Making**, 18(1), 1-11.