
BIOGRAPHICAL SKETCH

NAME: Martin Calotti

POSITION TITLE: Resident Physician, PGY-3; Heed Fellowship

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
University of Western Ontario, London, Ontario, Canada	BMSc	09/2013	06/2017	Bachelor of Medical Sciences (BMSc)
University of Western Ontario, London, Ontario, Canada	MMASc	09/2017	06/2018	Master of Management of Applied Sciences (MMASc)
Sidney Kimmel Medical College @ Thomas Jefferson University, Philadelphia, PA	MD	07/2019	06/2023	Medicine
Thomas Jefferson University, Philadelphia, PA	Internship	06/2023	06/2024	Internal Medicine
Wills Eye Hospital, Philadelphia, PA	Residency	06/2024	06/2027 (expected)	Ophthalmology

A. Personal Statement

When I was five years old, I immigrated with my parents to Toronto, Canada. The move was financially straining. We lived house-to-house with friends and family until my parents secured their first jobs. My father worked night shifts at a plastic bag factory while my mother worked day shifts at a coffee shop. At home, we watched English television to learn the language.

Two years later, my life drastically changed. My brother was born, and two weeks later my family was forced to move apart. My father moved to Michigan on a single-entry visa, while my newborn brother and I moved with our mother to an underserved town in Newfoundland, where she trained to be a family physician. Without my father, feeding, bathing and teaching my brother the alphabet became my daily responsibility. This early experience as his mentor planted the seed for my lifelong commitment to education.

Over the years, it became clear how my upbringing influenced my professional interest in being involved in academics, and particularly education. As an undergraduate, I conducted research which evaluated patient preparedness for cataract surgery. During my Master's degree, I served as a graduate teaching assistant in a biology lab. As a medical student at Thomas Jefferson University, I sought leadership roles that allowed me to be a mentor, including a role as a student interviewer on the Admissions Committee, and a mentor and article writer for the Thomas Duane Ophthalmology Society.

My commitment to clinical education deepened during a research rotation at Wills Eye Hospital under Dr. Carol Shields. There, I co-authored three publications on retinoblastoma germline mutations, risk factors for progression, and the use of intra-arterial chemotherapy. As a medical student, I was also a co-founder of *Ophthalmminute*, a digital platform designed to distill landmark trials in Ophthalmology in a series of easily accessible one-minute educational videos.

As a resident, I aim to continue to develop my commitment to patient advocacy and academic leadership. My early research utilized AI to assess readability of patient education materials to improve the accessibility and impact of such materials. More recently, my research focus has transitioned to ophthalmic trauma, specifically injuries related to intraocular foreign bodies, pickleball, bungee cords, baseball, and *Orbeez*, with the goal of mandating eye protection in high-risk populations. I am currently collaborating with Wolters Kluwer to publish a Clinical Photos Atlas based on cases from the Wills Eye Emergency Room. In 2025, I was honored to receive the Luo Family Distinguished Service Award, which is awarded to a resident with exceptional work ethic, clinical acumen, and dedication to patient care.

Now, as a co-Chief Resident, I am preparing for a career in Academic Ophthalmology. While pursuing a fellowship is my next step, my ultimate aspiration is to serve as a Program Director. I intend to be a mentor to residents and fellows, just as I was a mentor to my younger brother since my early childhood.

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

2024 – Present	Resident Physician, Wills Eye Hospital
2024 – Present	Member, Program Executive Committee, Wills Eye Hospital
2023 – 2024	Intern Resident Physician, Thomas Jefferson University
2020	Research Student, Ocular Oncology, Wills Hospital
2019 – 2020	Student Interviewer, Office of Admissions, Sidney Kimmel Medical College
2017 – 2018	Graduate Teaching Assistant, Biology, University of Western Ontario

Honors

2026 – 2027	Co-Chief Resident, Wills Eye Hospital
2025	Luo Family Distinguished Service Award, Wills Eye Hospital
2023	Top 10 Overall Student, Sidney Kimmel Medical College, Thomas Jefferson Student
2021	George McClellan Surgical Honor Society Award, Thomas Jefferson University
2021	Hobart Amory Hare Honor Society, Thomas Jefferson University
2014 – 2017	Dean's Honor List, University of Western Ontario
2013	Admissions Entry Scholarship, University of Western Ontario

C. Contributions to Science

1. During medical school, I was involved in a summer research fellowship in the Ocular Oncology Service at Wills Eye Hospital, where I contributed to various studies under the mentorship of Dr. Carol Shields, investigating Retinoblastoma. We were able to establish a correlation between age at presentation and the likelihood of germline mutations in patients with solitary unilateral disease, aiding in genetic risk stratification. We also evaluated the dynamic risk for the development of new tumors in order to optimize adequate screening protocols and prevent diagnostic delays. Finally, we also evaluated the efficacy of intra-arterial chemotherapy for globe salvage, and identifying patient criteria and ICRB classification that predicts treatment success.
 - a. Shields CL, Dockery PW, Ruben M, **Calotti M**, Sunday MA, & Yaghy A. Conditional Analysis on New Tumor Formation with Solitary Unilateral Retinoblastoma in 482 Consecutive Eyes. *Saudi Journal of Ophthalmology*. 2021; 35(4), 279–285.
 - b. Shields, CL, Dockery P, Ruben M, Yaghy A, Sunday MA, Duffner ER, Levin HJ, Taylor OS, **Calotti M**, Lally SE, Shields JA. Likelihood of Germline Mutation With Solitary Unilateral Retinoblastoma Based on Patient Age at Presentation: Analysis of 482 Consecutive Patients. *Journal of pediatric ophthalmology and strabismus*. 2021; 58(6), 355–364. doi: 10.3928/01913913-20210414-02
 - c. **Calotti M**, Yaghy A, Shields CL. Painful Glaucoma and Pseudohypopyon in a Child with Retinoblastoma. *Ophthalmology Glaucoma*. 2020; 3(6), 480.

2. During my residency at Wills Eye Hospital, I have developed a particular research interest in ocular trauma. I utilized the Wills Eye Emergency Room to study the presentation and management of preventable ocular trauma. My research focuses on a wide variety of etiologies, from traditional intraocular foreign bodies to more emerging threats, such as *Orbeez* projectiles, and sports-related injuries, including pickleball and baseball. By characterizing the clinical presentation, management, and visual prognosis of these injuries, I hope to provide the evidentiary basis necessary for public health initiatives and protective eyewear mandates in high-risk activities and sports. To date, I have presented these findings at major Ophthalmology conferences, including AAO, ASOT, ASRS, VBS, Retina Society, among others, and have several manuscripts currently under review or in preparation for publication
 - a. **Calotti M**, Cain R, Ramesh S, Nahar A, Calotti R, Zafar S, Acaba-Berrocal L, Bowe T, Beca FA, Haller J, Chung CA, Ho AC. Pickleball-Associated Ophthalmic Trauma: Clinical Characteristics and Outcomes. Poster presentation at: *Vitreous Buckle Society*. Las Vegas, NV. April 10th, 2026
 - b. Cotton C, **Calotti M**, Nahar A, Calotti R, Zafar S, Acaba-Berrocal L, Bowe T, Beca FA, Haller J, Chung CA, Ho AC. Baseball-Associated Ophthalmic Trauma: Clinical Characteristics and Outcomes. Podium presentation at: *78th Annual Wills Eye Conference*. Philadelphia, PA. March 26th, 2026.
 - c. **Calotti M**, Wibbelsman TD, Calotti R, Bowe T, Richards C, Deaner J, Regillo CD, Ho AC, Patel SN. Intraocular foreign body presentation, management and clinical outcomes: a seven-year experience. Poster presentation at: *American Society of Retina Specialists 43rd Annual Meeting*. Long Beach, California. August 1st, 2025.
 - d. **Calotti M**, Calotti R, Nahar A, Wibbelsman TD, Kim E, Richards C, Acaba-Berrocal L, Chung CA, Haller J, Ho AC. Clinical Characteristics and Outcomes of *Orbeez* Gel Pellet Projectile-Associated Ocular Trauma. Poster presentation at: *American Society of Ophthalmic Trauma, 5th Annual Conference*, Houston, TX, May 9th, 2025.
3. During my undergraduate studies, my early research focused on patient experience, and satisfaction prior to cataract surgery. This sparked a particular interest in identifying systemic barriers to ophthalmic care and improving health literacy. I have contributed to studies investigating how social determinants of health and sociodemographic influence the presentation of pediatric retinal detachments and retinal vein occlusions. Additionally, I have evaluated the utility of large language models and AI in improving the readability of patient education materials to allow for better understanding of their conditions. Ultimately, I hope this will minimize systemic disparities in ophthalmic care and improve patient visual outcomes.
 - a. Zafar S, Zhao AT, Soares RR, **Calotti M**, Sina E, Wibbelsman TD, et al. Sociodemographic factors affecting presentation in pediatric rhegmatogenous retinal detachment. *Retina*. 2025. doi: 10.1097/IAE.0000000000004112.
 - b. Zafar S, Momenaei B, Ni R, Wibbelsman T, **Calotti M**, Bowe T, et al. Influence of Social Determinants of Health on Presenting Visual Acuity in Retinal Vein Occlusions. *Ophthalmology Science*. 2025
 - c. Wibbelsman TD, Calotti R, **Calotti M**, Djulbegovic M, Bommakanti N, Bowe T, Gonzalez DT, Yonekawa Y, Ho AC. Readability of retina patient education materials generated with a large language model. Poster presentation at: *The Association for Research in Vision and Ophthalmology 2025 Annual Meeting*. Salt Lake City, Utah. May 5th, 2025.
 - d. Moinul P, Ligor T, Qian J, Tin E, **Calotti M**, Ceyhan T, et al. Evaluating patient preparedness for cataract surgery and satisfaction with preoperative care. *Canadian Journal of Ophthalmology*. 2019; 54(4):458-66

Complete List of Published Work in My Bibliography:

<https://pubmed.ncbi.nlm.nih.gov/?term=Martin%20Calotti&sort=date>

D. Scholastic Performance

YEAR	COURSE TITLE	GRADE
SIDNEY KIMMEL MEDICAL COLLEGE @ THOMAS JEFFERSON UNIVERSITY		
2021	Family Medicine Clerkship	H
2021	OBGYN Clerkship	H
2021	Ophthalmology Clerkship	H
2021	Pediatrics Clerkship	H
2021	Surgery Clerkship	H
2022	Internal Medicine Clerkship	H
2022	Neurology Clerkship	H
2022	Ocular Pathology	H
2022	Ophthalmology Senior Elective	H
2022	Ophthalmology Away Rotation – Henry Ford Hospital, Detroit, Michigan	H
2022	Diagnostic Radiology	H
2023	Internal Medicine Sub-internship	H

Sidney Kimmel Medical College @ Thomas Jefferson University graduate courses are graded P (pass), HP (high pass), H (honors) or F (fail).