

**Matthew Hirabayashi MD**  
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<b>EDUCATION</b>	<b>INSTITUTION</b>	
Ophthalmology Residency	<i>University of Missouri, Columbia, MO</i>	2020-Present
M.D.	<i>University of Missouri, Columbia, MO</i>	2016-2020
B.S. Biology <i>Summa Cum Laude with Honors</i>	<i>Saint Louis University, St. Louis, MO</i>	2012-2016
<b>CERTIFICATIONS, LICENSES</b>		
USMLE Step 1: 259		2018
USMLE Step 2 CK: 261		2019
USMLE Step 2 CS: Pass		2019
USMLE Step 3: 251		2020
Physician/Surgeon [Temporary] (2020014715)		2020-Present
Commercial Pilot License, Instrument Rating (4359991) – Airplane Single Engine Land		2021-Present
Certificated Flight Instructor-Instrument (4359991CFII) – Airplane Single Engine Land		2021-Present
Business Foundations, <i>Wharton Online (University of Pennsylvania)</i>		2022
<b>HONORS &amp; AWARDS</b>		
Top Five Abstract and Social Media Award, <i>Young MD Connect Live 2023</i>		2023
Chairman’s Award for Outstanding OKAP Score, <i>University of Missouri</i>		2022
John Aure Buesseler Award for Excellence in Ophthalmology, <i>University of Missouri</i>		2020
Health Sciences Research Day Poster Award, <i>University of Missouri</i>		2019
MedZou Distinguished Volunteer Award, <i>University of Missouri</i>		2019
Research Council Small Grant Award, <i>Missouri Orthopaedic Institute</i>		2017
ILEX Grant Recipient, <i>Saint Louis University</i>		2016
Senior Legacy and Undergraduate Teaching Award, <i>Saint Louis University</i>		2016
Presidential Scholar, <i>Saint Louis University</i>		2012-2016
<b>HONORARY &amp; PROFESSIONAL SOCIETIES</b>		
Refractive Surgery Alliance Society		2021-Present
National Association of Flight Instructors		2021-Present
American Academy of Ophthalmology		2020-Present
Alpha Sigma Nu		2013-Present
Presidential Scholarship Society, <i>Saint Louis University</i>		2012-Present
<b>RESEARCH &amp; SCHOLARSHIP</b>		
<b>Peer-Reviewed Publications:</b>		
• <b>Hirabayashi M</b> , Barnett B. Solving STODS—Surgical Temporary Ocular Discomfort Syndrome. <i>Diagnostics</i> . 2023; 13(5):837. doi.org/10.3390/diagnostics13050837		
• <b>Hirabayashi M</b> , Gharabagi A, Hesemann N, Johnson S, Webel A, Petroski G, Davis G. Spherical aberration of cataractous eyes and its relationship with age, ocular biometry, and various IOL platforms. <i>Journal of Refractive Surgery</i> . 2023; 39(2), 89–94. doi.org/10.3928/1081597X-20221207-01		
• Hooshmand S, Voss J, <b>Hirabayashi M</b> , McDaniel L, An J. Outcomes of initial and repeat micro-pulse transscleral cyclophotocoagulation in adult glaucoma patients. <i>Therapeutic Advances in Ophthalmology</i> . 2022;14:251584142110644. doi: 10.1177/25158414211064433		
• Pratte E, Cho J, Landreneau R, <b>Hirabayashi M</b> , An J. Predictive Factors of Outcomes in Kahook Dual Blade Excisional Goniotomy Combined with Phacoemulsification. <i>Journal of Current Glaucoma Practice</i> . 2022; 16(1):47-52. doi: 10.5005/jp-journals-10078-1313		
• Xu H, Thomas M, Lee D, <b>Hirabayashi M</b> , An J. Response to netarsudil in goniotomy-treated eyes and goniotomy-naïve eyes: a pilot study. <i>Graefes Arch Clin Exp Ophthalmol</i> . 2022;260(9):3001-3007. doi: 10.1007/s00417-022-05609-6		
• <b>Hirabayashi M</b> . Wing Separation and Mid-Air Breakup Analysis in Light Training Aircraft. <i>Aviation</i> . 2021;25(4):278-282. doi: 10.3846/aviation.2021.15953.		
• Cho J, Hogan D, Salim M, Pratte E, King J, Bylund R, <b>Hirabayashi M</b> , An J. Comparison of Outcomes for Laser Trabeculoplasty after Kahook Dual Blade Goniotomy Versus in Goniotomy-Naive Eyes. <i>Ophthalmology and Therapy</i> . 2021;10(4):905-912. doi: 10.1007/s40123-021-00378-7		
• King J, Lee D, Thomsen S, <b>Hirabayashi M</b> , An J. Relationship Between Selective Laser Trabeculoplasty and Excisional Goniotomy Combine with Phacoemulsification. <i>Canadian Journal of Ophthalmology</i> . 2021;57(2):112-117. doi: 10.1016/j.cjjo.2021.02.040.		
• <b>Hirabayashi M</b> , Viridi G, King J, Lee D, Nguyen V, An J. Effect of Excisional Goniotomy with the Kahook Dual Blade (KDB) on Surgically Induced Astigmatism. <i>Clinical Ophthalmology</i> . 2020;14:4297-4303. doi: 10.2147/OPHTH.S279073		

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**RESEARCH & SCHOLARSHIP cont.**

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**Peer-Reviewed Publications:**

- Pratte E, Landrenau J, **Hirabayashi M**, An J. Comparison of 12-Month Outcomes of Kahook Dual Blade Excisional Goniotomy Performed by Attending versus Resident Surgeons. *Journal of Academic Ophthalmology*. 2020; 12(02): e181-e187. doi: 10.1055/s-0040-1717055
- **Hirabayashi M**, Ponnusamy V, An J. Predictive Factors for Outcomes of Selective Laser Trabeculoplasty. *Scientific Reports*. 2020;10(1):9428. doi: 10.1038/s41598-020-66473-0
- **Hirabayashi M**, Smith D, An A. Biostatistics 101: Perspectives on Statistics in Ophthalmology. *JOJ Ophthalmol*. 2019;7(5): 555724. <https://doi.org/10.19080/JOJO.2019.07.555724>.
- Lee D, King J, Thomsen S, **Hirabayashi M**, An J. Comparison Of Surgical Outcomes Between Excisional Goniotomy Using The Kahook Dual Blade And iStent Trabecular Micro-Bypass Stent In Combination With Phacoemulsification. *Clinical Ophthalmology*. 2019;13:2097-2102. doi: 10.2147/ophth.s224109
- **Hirabayashi M**, McDaniel L, An J. Reversal of Toric Intraocular Lens-corrected Corneal Astigmatism after Kahook Dual Blade Goniotomy. *Journal of Current Glaucoma Practice*. 2019;13(1):42-44. doi: 10.5005/jp-journals-10078-1243
- **Hirabayashi M**, Rosenlof T, An J. Comparison of Outcome Predictors for MicroPulse Laser Trabeculoplasty and Selective Laser Trabeculoplasty. *Clinical Ophthalmology*. 2019;13:1001-1009. doi: 10.2147/ophth.s205977
- **Hirabayashi M**, King J, Lee D, An J. Outcome of Phacoemulsification Combined with Excisional Goniotomy using the Kahook Dual Blade in Severe Glaucoma Patients at 6 months. *Clinical Ophthalmology*. 2019;13:715-721. doi: 10.2147/ophth.s196105

**Non-Peer Reviewed Publications:**

- **Hirabayashi M**. The Laws of Learning, The Laws of Learning, Teaching, and Life. *NAFI*. March/April 2023.
- **Hirabayashi M**, Viridi G, Davis G, Hesseman N. Seeing is Believing. *The Ophthalmologist*. January 2023.
- **Hirabayashi M**, Viridi G, Davis G, Hesseman N. Toric Tolerance: 1° for 3%? *The Ophthalmology Business Minute*. December 2022.
- **Hirabayashi M**, Viridi G, Johnson S. The Path of Broken Ground: A timeline of technological developments in ophthalmology. *The Ophthalmologist*. December 2022.
- Barnett B, **Hirabayashi M**. The Art of Focusing Light: Refractive Surgery Fellowships. *The Ophthalmology Business Minute*. December 2022
- **Hirabayashi M** and An J. Laser Trabeculoplasty in the Treatment of Open-angle Glaucoma. *Glaucoma Physician*. December 2021.
- Dailey D, Thomsen S, Davis G, Davis R, **Hirabayashi M**, and Ponnusamy V. The Curious Case of Cysts and Sight. *EyeNet Magazine*. January 2019.

**International Poster Presentations:**

- **Hirabayashi M**, King J, Lee D, An J. Outcome of Phacoemulsification with Kahook Dual Blade Goniotomy in Severe Glaucoma at 6 months. Poster Presented at: 8<sup>th</sup> World Glaucoma Congress; April, 2019; Melbourne, Victoria.
- **Hirabayashi M**, King J, Lee D, Thomsen S, An J. Comparison of ab-interno 360-degree Trabeculotomy and ab-interno Trabeculectomy using Dual Blade. Presented at: 8<sup>th</sup> World Glaucoma Congress; April, 2019; Melbourne, Victoria.
- **Hirabayashi M**, Rosenlof T, An J. Comparison of Outcome Predictors for MicroPulse Laser Trabeculoplasty and Selective Laser Trabeculoplasty. Presented at: 8<sup>th</sup> World Glaucoma Congress; April, 2019; Melbourne, Victoria.

**National Poster Presentations:**

- **Hirabayashi M**, Gharabagi A, Hessemann N, Johnson S, Webel A, Petroski G, Davis G. Spherical aberration of cataractous eyes and its relationship with age, ocular biometry, and various IOL platforms. Presented at: Young MD Connect Live; March 2023; Austin, TX.
- **Hirabayashi M**, Ponnusamy V, An J. Predictive Factors for Outcomes of Selective Laser Trabeculoplasty. Presented at: 2019 American Glaucoma Society Meeting; April, 2019; San Francisco, CA.

**Books:**

- **Hirabayashi M**. *The Eye Guide: The Eye Exam*. KDP; 2023. ISBN: 979-8369938799.
- **Hirabayashi M**. *The Eye Guide: Cataract Surgery*. KDP; 2022. ISBN: 979-8365363342.
- **Hirabayashi M**. *The Eye Guide: Anatomy and Optics*. KDP; 2022. ISBN: 979-8364789389.

**Book Chapters:**

- **Hirabayashi M**, Johnson S. 2023. "Chapter 23: Cataract Surgery in the Hypotonous Eye." In *Cataract Surgery in the Glaucoma Patients*, by Johnson S. Springer Science+Business Media. doi: 10.1007/978-0-387-09408-3\_23

**Lectures and Speaking Engagements:**

- Beyond the White Coat: Entrepreneurship in Ophthalmology, *Young MD Connect Live*, 2023
  - Cataract Surgery: Deep Dive into the Basics, *Retina Academy*, 2022
  - Introduction to Cataract Surgery for Interns and First Years, *Sponsored by Bausch + Lomb*, 2022
  - Ophthalmology Interest Group Lecture Series, *University of Missouri School of Medicine*, 2020-Present
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**RESEARCH & SCHOLARSHIP cont.**

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**Online Education:**

- EyeFlyMD Ophthalmology Education founder: EyeFlyMD.com and twitter.com/EyeFlyMD, 2020-Present
- EyeFlyCFI Aviation Education founder: EyeFlyCFI.com, 2021-Present

**Peer Reviewer:**

- Journal of Glaucoma
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**MEDIA & PRESS MENTIONS**

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Next-Generation Online IOL Resources, <i>Cataract &amp; Refractive Surgery Today</i>	2023
Filling the App in Knowledge, <i>Young MD Connect (YMDC)</i>	2023
Bridging the App, <i>The Ophthalmologist</i>	2022
IOL Reference App Allows Surgeons to Search for FDA-Approved IOLs, <i>Ophthalmology Breaking News</i>	2022
New App Allows Surgeons to Search for FDA Approved IOLs, <i>eyewire</i>	2022
Virtual Resources for Aspiring Ophthalmologists, <i>MillennialEYE</i>	2022

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**COMMUNITY SERVICE**

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MedZou Ophthalmology Resident Volunteer, <i>University of Missouri</i>	2022-Present
Command Pilot, <i>Angel Flight</i>	2021-Present
STEM Mentor, <i>Wings of Hope</i>	2021-Present
Presidential Scholarship Interviewer, <i>Saint Louis University</i>	2020-Present
MedZou Student Volunteer, <i>University of Missouri</i>	2016-2020
Medical School Charity Band (Vocals, Guitar), <i>University of Missouri</i>	2017-2020
Senior Teacher Educator Partnership (STEP) Volunteer, <i>University of Missouri</i>	2016-2017
Labre Ministry with the Homeless Volunteer, <i>Saint Louis University</i>	2015-2016
Guitar Teacher, <i>Doorways Housing St. Louis</i>	2016

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**LEADERSHIP & PROFESSIONAL SERVICE**

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Assistant Editor of Technology and Innovation, <i>Ophthalmology Business Minutes</i>	2023-Present
eyeSpace Co-Founder (online at eyespace.ai and on the Apple App Store)	2022-Present
IOL Reference Co-Founder (online at IOLReference.com, part of the eyeSpace utility)	2022-Present
Ophthalmology Interest Group Resident Contact, <i>University of Missouri</i>	2021-Present
EyeFlyMD Ophthalmology, Surgery, and Matching Educational Resource Founder	2020-Present
• EyeFlyMD.com	
• twitter.com/EyeFlyMD	
• Instagram @EyeFlyMD	
• YouTube @EyeFly	
Ophthalmology Interest Group Resident Representative, <i>University of Missouri</i>	2020-Present
Medical Student Research Coordinator, <i>University of Missouri</i>	2020-Present
Dean-Appointed Curriculum Innovation Committee, <i>University of Missouri</i>	2017-2020
Curriculum Board Representative, <i>University of Missouri</i>	2016-2020
MedZou Medical Student Education Chair, <i>University of Missouri</i>	2016-2017
School of Medicine Student Ambassadors, <i>University of Missouri</i>	2016-2020
Curriculum Development Coordinator – Biology Department, <i>Saint Louis University</i>	2013-2016
SLU String Orchestra, Concertmaster, <i>Saint Louis University</i>	2012-2016

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**ADDITIONAL EDUCATION & CERTIFICATION**

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RSA Resident Webinar Certification, <i>Refractive Surgery Alliance Society</i>	2022
Introduction to Marketing, <i>Wharton Online (University of Pennsylvania)</i>	2022
Introduction to Financial Accounting, <i>Wharton Online (University of Pennsylvania)</i>	2022
Managing Social and Human Capital, <i>Wharton Online (University of Pennsylvania)</i>	2022
Introduction to Corporate Finance, <i>Wharton Online (University of Pennsylvania)</i>	2022
Introduction to Operations Management, <i>Wharton Online (University of Pennsylvania)</i>	2022

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**INTERESTS, HOBBIES, & SKILLS**

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**Aviation**

- Certificated Flight Instructor-Instrument and Instrument Rated Commercial Pilot (CFII, CPL IR HP CMP)
- Aviation Education and Resource/Content Creator: EyeFlyCFI.com and youtube.com/@EyeFlyMD

**Seascape and Wildlife Photography**

- Portfolio: ouphotos.net
- Proficiency with Adobe Creative Cloud Suite

**Music**

- Original Music: CuriosityandCats.com
- Jazz Guitar and String Quartet Arranging: www.youtube.com/c/CuriosityandtheCat

Sailing/Boatbuilding

Wing Chun Kung Fu

Antiquity History (Rome)

Scuba Diving