# Matthew Hirabayashi MD

Parkhurst NuVision EyeFlyMD.com matt@eyeflymd.com

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Refractive Surgery Fellowship         Parkhurst NuVision, San Antonio, TX         2024-2025           Ophthalmology Residency, Chief Resident         University of Missouri, Columbia, MO         2020-2024           M.D.         University of Missouri, Columbia, MO         2016-2020           B.S. Biology Summa Cum Laude with Honors         Saint Louis University, St. Louis, MO         2012-2016           CERTIFICATIONS, LICENSES           WaveLight™ EN500, Countoura (ALCON)         2024           EVO ICL, Stella (STAAR Surgical)         2024           VISUMAX, SMILE, LASIK Flaps (ZEISS)         2024           ALLY Adaptive Cataract Treatment System (LENSAR)         2024           CATALYS Precision Laser System (Johnson & Johnson)         2024           ORA SYSTEM Intraoperative Aberrometer (Alcon)         2024           Physician/Surgeon Texas (U8999)         2024 Present           Business Foundations, Wharton Online (University of Pennsylvania)         2021-Present           Certificated Flight Instructor-Instrument (4359991 CFII) - Airplane Single Engine Land         2021-Present           USMLE Step 3: 251         2020           USMLE Step 2: CS: Pas         2019           USMLE Step 1: 259         2018           INONES & AWARDS         2024           Voung Ophthalmology Leaders Award, AECOS and Cedars Aspens         2	EMPLOYMENT & EDUCATION	INSTITUTION	
Ophthalmology Residency, Chief Resident         University of Missouri, Columbia, MO         2020-2024           M.D.         University of Missouri, Columbia, MO         2016-2020           B.S. Biology Summa Cum Laude with Honors         Saint Louis University, St. Louis, MO         2012-2016           CERTIFICATIONS, HICENSES           WaveLight™ EX500, Countoura (ALCON)         2024           EVO ICL, Stella (STAAR Surgical)         2024           VISUMAX, SMILE, LASIK Flaps (ZEISS)         2024           ALLY Adaptive Cataract Treatment System (LENSAR)         2024           CATALYS Precision Laser System (Johnson & Johnson)         2024           ORA SYSTEM Intraoperative Aberrometer (Alcon)         2024           Physician/Surgeon Texas (Us999)         2024-Present           Business Foundations, Wharton Online (University of Pennsylvania)         2022           Certificated Flight Instructor-Instrument (4359991CFII) - Airplane Single Engine Land         2021-Present           Commercial Pilot License, Instrument Rating (4359991) - Airplane Single Engine Land         2021-Present           USMLE Step 2 CS: Pass         2019           USMLE Step 3: 251         2019           USMLE Step 2 CK: 261         2019           USMLE Step 1: 259         2024           Poung Ophthalmology Leaders Award, AECOS and Cedars Aspens         2	<u> </u>		
M.D.         University of Missouri, Columbia, MO         2016-2020           B.S. Biology Summa Cum Laude with Honors         Saint Louis University, St. Louis, MO         2012-2016           CERTIFICATIONS, LICENSES         2024           EVO ICL, Stella (STAAR Surgical)         2024           EVO ICL, Stella (STAAR Surgical)         2024           VISUMAX, SMILE, LASIK Flaps (ZEISS)         2024           ALIY Madprive Cataract Treatment System (LENSAR)         2024           CATALYS Precision Laser System (Johnson & Johnson)         2024           ORA SYSTEM Intraoperative Aberrometer (Alcon)         2024-Present           Business Foundations, Wharton Online (University of Pennsylvania)         2021-Present           Certificated Flight Instructor-Instrument (4359991CFII) - Airplane Single Engine Land         2021-Present           Commercial Pilot License, Instrument Rating (4359991) - Airplane Single Engine Land         2021-Present           USMLE Step 2 CS: Pass         2019           USMLE Step 2 CS: Pass         2019           USMLE Step 1: 259         2018           HOONOR & AWARDS         2024           Young Ophthalmology Leaders Award, AECOS and Cedars Aspens         2024           Best of Poster Session 2024, ASCRS         2024           Chairman's Award for Outstanding OKAP Score 2023, University of Missouri         2023	~ ·		
B.S. Biology Summa Cum Laude with Honors Saint Louis University, St. Louis, MO  CERTIFICATIONS, LICENSES  WaveLight**EX500, Countoura (ALCON)  EVO ICI., Stella (STAAR Surgical)  2024  VISUMAX, SMILE, LASIK Flaps (ZEISS)  ALLY Adaptive Cataract Treatment System (LENSAR)  2024  ALLY Adaptive Cataract Treatment System (LENSAR)  2024  CATALYS Precision Laser System (Johnson & Johnson)  2024  ORA SYSTEM Intraoperative Aberrometer (Alcon)  Business Foundations, Wharton Online (University of Pennsylvania)  2024-Present  Business Foundations, Wharton Online (University of Pennsylvania)  2021-Present  Commercial Pilot License, Instrument (A359991CFII) - Airplane Single Engine Land  2021-Present  USMLE Step 3: 251  2020  USMLE Step 2 CS: Pass  2019  USMLE Step 2 CS: Pass  2019  USMLE Step 1: 259  2018  HONORS & AWARDS  Young Ophthalmology Leaders Award, AECOS and Cedars Aspens  2024  Best of Poster Session 2024, ASCRS  Chairman's Award for Outstanding OKAP Score 2023, University of Missouri  2023  1st Runner Up Research Presentation, Residents & Alumni Weekend, University of Missouri  2023  Chairman's Award for Outstanding OKAP Score 2022, University of Missouri  2023  Chairman's Award for Outstanding OKAP Score 2022, University of Missouri  2023  Chairman's Award for Outstanding OKAP Score 2022, University of Missouri  2023  Chairman's Award for Outstanding OKAP Score 2022, University of Missouri  2023  Chairman's Award for Outstanding OKAP Score 2022, University of Missouri  2023  Chairman's Award for Outstanding OKAP Score 2022, University of Missouri  2024  Health Sciences Research Day Poster Award, University of Missouri  2026  Health Sciences Research Day Poster Award, University of Missouri  2027  Diph Aure Buesseler Award for Excellence in Ophthalmology, University of Missouri  2029  Health Sciences Research Day Poster Award, University of Missouri  2020  Health Sciences Research Day Poster Award, University of Missouri  2020  Health Sciences Research Day Poster Award, University of Missouri  2021  Research Counc	Ophthalmology Residency, Chief Resident	University of Missouri, Columbia, MO	2020-2024
CERTIFICATIONS, LICENSES           WaveLight <sup>IM</sup> EX500, Countoura (ALCON)         2024           EVO ICL, Stella (STAAR Surgical)         2024           VISUMAX, SMILE, LASIK Flaps (ZEISS)         2024           ALLY Adaptive Cataract Treatment System (LENSAR)         2024           CATALYS Precision Laser System (Johnson & Johnson)         2024           ORA SYSTEM Intraoperative Aberrometer (Alcon)         2024-Present           Business Foundations, Wharton Online (University of Pennsylvania)         2022           Certificated Flight Instructor-Instrument (435999) [CFII] - Airplane Single Engine Land         2021-Present           USMLE Step 3: 251         2020           USMLE Step 3: 251         2019           USMLE Step 2 CK: 261         2019           USMLE Step 1: 259         2018           WOUNGS & AWARDS         2024           Young Ophthalmology Leaders Award, AECOS and Cedars Aspens         2024           Best of Poster Session 2024, ASCRS         2024           Chairman's Award for Outstanding OKAP Score 2023, University of Missouri         2023           1°F Runner Up Research Presentation, Residents & Alumni Weckend, University of Missouri         2023           Top Five Abstract and Social Media Award, Young MD Connect Live 2023         2023           Chairman's Award for Outstanding OKAP Score 2022, University of Mis	M.D.	- ·	2016-2020
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American Academy of Ophthalmology 2020-Present	9		
Alpha Sigma Nu Jesuit Honor Society  2013-Present	, , ,		

#### HONORARY & PROFESSIONAL SOCIETIES cont.

Presidential Scholarship Society, Saint Louis University

2012-Present

#### **RESEARCH & SCHOLARSHIP**

#### **Peer-Reviewed Publications:**

- Hirabayashi M, Virdi G, Nasser T, Abramson A, Parkhurst G. VAULT-OCT: Vault Accuracy Using Deep Learning Technology for Predicting ICL Postoperative Vault with Anterior Segment Optical Coherence Tomography. *Journal of Cataract & Refractive Surgery*. Accepted July 2025.
   Hirabayashi M, Virdi G, Abramson A, Nasser T, Vanrachack A, Parkhurst G. Clinical Outcomes of
- Hirabayashi M, Virdi G, Abramson A, Nasser T, Vanrachack A, Parkhurst G. Clinical Outcomes of Implantable Collamer Lenses for the Treatment of Myopia in Eyes with Anterior Chamber Depth (<3.0 mm) at a Single Center in the United States. Clinical Ophthalmology. 2024. doi.org/10.2147/OPTH.S528267
- Wattanasirakul P, Hirabayashi M, Yousuf R, Elkeeb A. Cureus. February 2025. A Retrospective Chart Review: The Presence of Anterior Hyaloid Separation Sign in Posterior Vitreous Detachment. Cureus. doi.org/10.7759/cureus.78342
- Nasser T, Hirabayashi M, Virdi G, Abramson A, Parkhurst, G. VAULT: Vault Accuracy Using deep Learning Technology – A Novel Image-Based AI Model for Predicting Implantable Collamer Lens Postoperative Vault. Journal of Cataract & Refractive Surgery. April 2024. doi.org/10.1097/j.jcrs.00000000000001386
- **Hirabayashi M**, Mellencamp E, Duong S, Simoncic J, Homan C, King J, An J. Effect of Selective Laser Trabeculoplasty on the Fellow Eye. *Journal of Current Ophthalmology Practice*. January 2024; 17(4):175-177. doi.org/10.5005/jp-journals-10078-1420
- **Hirabayashi M**, Barnett B. Solving STODS—Surgical Temporary Ocular Discomfort Syndrome. *Diagnostics*. 2023; 13(5):837. doi.org/10.3390/diagnostics13050837
- Hirabayashi M, 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. *Journal of*Refractive Surgery. 2023; 39(2), 89–94. doi.org/10.3928/1081597X-20221207-01
- Hooshmand S, Voss J, **Hirabayashi M**, McDaniel L, An J. Outcomes of initial and repeat micro-pulse transscleral cyclophotocoagulation in adult glaucoma patients. *Therapeutic Advances in Ophthalmology*. 2022;14:251584142110644. doi: 10.1177/25158414211064433
- Pratte E, Cho J, Landreneau R, Hirabayashi M, An J. Predictive Factors of Outcomes in Kahook Dual Blade Excisional Goniotomy Combined with Phacoemulsification. *Journal of Current Glaucoma Practice*. 2022; 16(1):47-52. doi: 10.5005/jp-journals-10078-1313
- Xu H, Thomas M, Lee D, **Hirabayashi M**, An J. Response to netarsudil in goniotomy-treated eyes and goniotomy-naïve eyes: a pilot study. *Graefes*. 2022;260(9):3001-3007. doi: 10.1007/s00417-022-05609-6
- **Hirabayashi M**. Wing Separation and Mid-Air Breakup Analysis in Light Training Aircraft. *Aviation*. 2021;25(4):278-282. doi: 10.3846/aviation.2021.15953.
- Cho J, Hogan D, Salim M, Pratte E, King J, Bylund R, Hirabayashi M, An J. Comparison of Outcomes for Laser Trabeculoplasty after Kahook Dual Blade Goniotomy Versus in Goniotomy-Naive Eyes. *Ophthalmology and Therapy*. 2021;10(4):905-912. doi: 10.1007/s40123-021-00378-7
- King J, Lee D, Thomsen S, **Hirabayashi M**, An J. Relationship Between Selective Laser Trabeculoplasty and Excisional Goniotomy Combine with Phacoemulsification. *Canadian Journal of Ophthalmology*. 2021;57(2):112-117. doi: 10.1016/j.jcjo.2021.02.040.
- **Hirabayashi M**, Virdi G, King J, Lee D, Nguyen V, An J. Effect of Excisional Goniotomy with the Kahook Dual Blade (KDB) on Surgically Induced Astigmatism. *Clinical Ophthalmology*. 2020;14:4297-4303. doi: 10.2147/OPTH.S279073
- 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

#### RESEARCH & SCHOLARSHIP cont.

- 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/opth.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/opth.s196105

#### **Non-Peer Reviewed Publications:**

- Hirabayashi M, Parkhurst G. Low Myopes Get New Options. Ophthalmology Management. August 2024.
- Hirabayashi M, An J. One Size Does Not Fit All. The Ophthalmologist. March 2023.
- Hirabayashi M. The Laws of Learning, Teaching, and Life. NAFI Mentor Magazine. March/April 2023.
- **Hirabayashi M**, Virdi G, Davis G, Heseman N. Toric Tolerance: 1° for 3%? *The Ophthalmology Business Minute*. December 2022.
- **Hirabayashi M**, Virdi 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 E, 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 MLT and SLT. Presented at: 8<sup>th</sup>
   World Glaucoma Congress; April, 2019; Melbourne, Victoria.
- National Poster Presentations:
- **Hirabayashi M**, Virdi G, Johnson S, Davis G, Relationship between Corneal Aberrations and Prediction Error of the Barrett Il IOL Formula. Presented at: ASCRS 2024; March 2024; Boston, MA.
- **Hirabayashi M**, 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. 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.

#### RESEARCH & SCHOLARSHIP cont.

#### **Books:**

- Hirabayashi M, Nasser T, Parkhurst G. Vision Correction: Introduction to Modern Refractive Surgery. KDP; 2025. ISBN: 979-8305423129
- Hirabayashi M. Focusing Light: The Science of Photography. KDP; 2024. ISBN: 979-8877583610.
- McLaughlin D, Gharabagi A, Virdi G, Miller A, **Hirabayashi M**. *The Eye Guide: Matching in Ophthalmology*. KDP; 2023. ISBN: 979-8392161324
- 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 Patient, by Johnson S. Springer Science+Business Media. doi: 10.1007/978-0-387-09408-3\_23

#### Peer Reviewer:

Iournal of Glaucoma

## Presentations, Lectures, and Speaking Engagements:

- ICLs with Low Myopia and Sizing Pearls, Telling it Like it Is, 2024
- Why I Chose EVO ICL, STAAR Surgeon Summit, 2024
- The Future of AI ICL Sizing is OCT Not UBM, STAAR Surgeon Summit, 2024
- VAULT: Vault Accuracy Using deep Learning Technology, The Outliers, 2024
- 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, 2020-2024

# MEDIA & PRESS MENTIONS

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

#### **COMMUNITY SERVICE**

Taking it to the Streets San Antonio	2025-Present
MedZou Ophthalmology Resident Volunteer, University of Missouri	2022-2024
Command Pilot, Angel Flight	2021-2024
STEM Mentor, Wings of Hope	2021-2024
Presidential Scholarship Interviewer, Saint Louis University	2020-2024
MedZou Student Volunteer, University of Missouri	2016-2020
Medical School Charity Band (Vocals, Guitar), University of Missouri	2017-2020
Senior Teacher Educator Partnership (STEP) Volunteer, University of Missouri	2016-2017
Labre Ministry with the Homeless Volunteer, Saint Louis University	2015-2016
Guitar Teacher, Doorways Housing St. Louis	2016

LEADERSHIP & PROFESSIONAL SERVICE	
Founder, President Abaco Arts LLC – Media, Graphic Design, Consulting	2025-Present
Co-Founder of Refractive Foundations (RefractiveFoundations.com), WCRSVS	2024-Present
• RefractiveFoundations.com	
Chief Resident, University of Missouri	2023-2024
RSA Resident Webinar Committee, Refractive Surgery Alliance Society	2023-2024
Editor of Technology and Innovation, Ophthalmology Business Minute	2023-Present
Bimini AI LLC Co-Founder – AI, Technology, and Innovation in Ophthalmology	2022-Present
• BiminiAI.com	
• IOL Reference iOS Application in the Apple App Store and IOLReferene.com	
LEADERSHIP & PROFESSIONAL SERVICE cont.	
EyeFlyMD LLC Ophthalmology, Surgery, and Matching Educational Resource Founder	2020-Present
• EyeFlyMD.com	
• X.com, Instagram, Youtube @EyeFlyMD	
Medical Student Research Coordinator, University of Missouri	2020-2024
Ophthalmology Interest Group Resident Representative, University of Missouri	2020-2023
Dean-Appointed Curriculum Innovation Committee, University of Missouri	2017-2020
Curriculum Board Representative, University of Missouri	2016-2020
MedZou Medical Student Education Chair, University of Missouri	2016-2017
SLU String Orchestra, Concertmaster, Saint Louis University	2012-2016
ADDITIONAL EDUCATION & CERTIFICATION	
Introduction to Marketing, Wharton Online (University of Pennsylvania)	2022
Introduction to Financial Accounting, Wharton Online (University of Pennsylvania)	2022
Managing Social and Human Capital, Wharton Online (University of Pennsylvania)	2022
Introduction to Corporate Finance, Wharton Online (University of Pennsylvania)	2022
Introduction to Operations Management, Wharton Online (University of Pennsylvania)	2022

## Aviation

INTERESTS AND HOBBIES

- Aviation Education and Resource/Content Creator
- EyeFlyCFI.com and youtube.com/@EyeFlyMD

## Seascape and Wildlife Photography & Graphic Design

- Portfolio: FocusingLight.com
- Proficiency with Adobe Creative Cloud Suite
- (Lightroom, Photoshop, Premiere Pro, After Effects, and Illustrator)
  - o Original Music:

## Jazz Guitar and String Quartet Arranging

• www.youtube.com/@CuriosityandCats

## Sailing/Boatbuilding/Scuba Diving

## Wing Chun Kung Fu

Learning Spanish (currently B1 based on the Instituto Cervantes Placement Exam)