

Curriculum Vitae
Alejandro Espallat, MD FACS

Demographic Information:

Date of Birth: November 19, 1964

Place of Birth: Santo Domingo, Dominican Republic

Citizenship: United States Citizen

Language Skills: Fluent in English and Spanish.

Position: Assistant Professor of Clinical Ophthalmology
Clinician Investigator / Artificial Intelligence Ophthalmology
Eye Physician Surgeon & Diabetic Eye Disease Specialist
Ophthalmology Research Director
Department of Ophthalmology
Prisma Health / University of South Carolina
Columbia, South Carolina, USA

**South Carolina
Office:**

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Florida Research Office: 1011 Sunnybrook Rd, Suite 901
Miami, FL, 33136

Florida Clinical (Telemedicine) Office: 3400 Lakeside Dr., Suite 525
Miramar, FL 33027

Board Certifications:

- Board Certified Ophthalmology (American Board of Ophthalmology)

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Education and Postdoctoral Training:

July 1998- June 1999 Harvard University School of Medicine. Joslin Diabetes Center/Beetham Eye Institute. Boston, Massachusetts. *Clinical & Research Fellow, Diabetic Eye Disease and Medical Retina.*

July 1995-June 1998 Brown University School of Medicine. Rhode Island Hospital. Providence, Rhode Island. *Resident, Ophthalmology*

July 1994-June 1995 Boston University School of Medicine. Carney Hospital. Boston, Massachusetts. *Clinical Fellow, Internal Medicine*

July 1993-June 1994 Boston University School of Medicine. Carney Hospital. Boston, Massachusetts. *Internship, Internal Medicine*

July 1991-June 1993 Harvard University School of Medicine. Massachusetts Eye & Ear Infirmary. Rhoads Molecular Biology Laboratory. Boston, Massachusetts *Research Fellow, Ophthalmic Molecular Immunology*

July 1990- June 1991 Harvard University School of Medicine. Massachusetts Eye & Ear Infirmary David G. Cogan Eye Pathology Laboratory. Boston, Massachusetts. *Research Assistant, Ocular Pathology*

Sept 1986- June 1990 Technological Institute of Santo Domingo, Santo Domingo, Dominican Republic. *Medical Doctor*

July 1981- Sept 1986 Nacional Pedro Henríquez Ureña University. Santo Domingo, Dominican Republic. *Pre-Medical Studies*

Sept 1969- June 1981 Loyola School. Santo Domingo, Dominican Republic. *Elementary and High School*

Work History:

- May/2025-Present: *Prisma Health Ophthalmology*, Columbia, SC
- Oct/2023-March/2025: *South Florida Eye Institute*, Tamarac, FL
- Jan/2019-Oct/2023: *Conviva/Humana Medical Group*, Deerfield Beach, FL
- Jan/2017-Dec/2019: *Aggarwal Medical Associates*. Merritt Island, FL
- Jan/2001-Dec/2017: *Espallat Vision Network, pllc*. Miami, FL

Licensures:

2025 Licensed, South Carolina Board of Medicine # 93961 (Active)

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2024	Licensed, New York State Board of Medicine #333415 (Active)
2024	Fellow of the American College of Surgeons (Active)
2024	Licensed, Dubai Health Authorities, United Arab Emirates
2001	Licensed, Florida Board of Registration of Medicine #ME 81887 (Active)
1998	Controlled Substance Registration Certificate, DEA (Active)
1993	Licensed, Dominican Republic Board of Education #1023 (49-F) (Active)
1993	Diplomat, Educational Commission for Foreign Medical Graduates # 0-449-922-4 (valid indefinitely)

Certifications:

2025	(MIT) Massachusetts Institute of Technology – AI in Healthcare
2024	Stanford AIM - AI in Healthcare Capstone Project
2024	Stanford AIM - Evaluations of AI Applications in Healthcare
2024	Stanford AIM - Fundamentals for Machine Learning in Healthcare
2024	Stanford AIM - Introduction to Clinical Data
2024	Stanford AIM - Introduction to Healthcare
2023	Google Cloud - Introduction to Generative AI
2017	OptiMedica Catalys Femtosecond Laser
2016	Alcon LenSx Femtosecond Laser
2009	Alcon Allegretto WaveLight Excimer Laser
2009	Moria One Use-Plus SBK MK
2009	LOCS III Lens Opacity Classification System (Recertification # 1)
2009	LOCS III Lens Opacity Classification System
2007	Endoscopic Laser Cyclophotocoagulation (ECP)
2001	VISX Excimer Laser System (Myopia, Hyperopia and Astigmatism)

Academic & Hospital Appointments:

2025 -Present	<i>Assistant Professor of Clinical Ophthalmology.</i> University of South Carolina, Columbia, South Carolina
2025-Present	<i>Medical Staff.</i> Prisma Health Ophthalmology Columbia, South Carolina
2024-2025	<i>Medical Staff.</i> Broward Health Imperial Point Fort Lauderdale, Florida
2019-2025	<i>Medical Staff.</i> Surgery Center of Fort Lauderdale Fort Lauderdale, Florida
2003-2014	<i>Medical Staff.</i> University of Miami Hospital Miami, Florida
2002-2007	<i>Voluntary Assistant Professor of Clinical Ophthalmology.</i> University of Miami School of Medicine. Bascom Palmer Eye Institute
2001-2007	<i>Medical Staff.</i> Laser Vision Center/Bascom Palmer Institute

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Miami, Florida

- 1999-2001 *Associate Professor of Ophthalmology.* National Diabetes Institute (INDEN)
Santo Domingo, Dominican Republic.
- 1999-2001 *Attending Surgeon.* Instituto Espallat Cabral.
Santo Domingo, Dominican Republic.
- 1998-1999 *Clinical Fellow.* Harvard University School of Medicine
Beetham Eye Institute/Joslin Diabetes Center
- 1997-1998 *Assistant Instructor in Surgery (Ophthalmology).* Brown University School of Medicine
- 1995-1998 *Ophthalmology Resident.* Brown University School of Medicine. Rhode Island Hospital
- 1993-1995 *Internal Medicine Resident.* Boston University School of Medicine. Carney Hospital
- 1991-1993 *Research Fellow.* Harvard University School of Medicine. Massachusetts Eye & Ear
Infirmary

Awards:

- 2005 Physician's Recognition Award. Mayor City of Miami, Florida.
- 2001 LEO 2001 (Lifelong Education of Ophthalmology Credit Award) AAO
- 2001 Outstanding Teaching Award. National Diabetes Institute (INDEN). Dominican Republic
- 1999 American Diabetes Association's Research Grant Award
- 1998 Winner of the 1998 World Refractive Surgery Symp Poster Competition. Orlando, FL
- 1998 Physician's Recognition Award. American Medical Association

Committee Assignments:

- 2006-2010 Continuing Medical Education / University of Miami Hospital
- 2006-2010 Surgical Review Committee / University of Miami Hospital
- 2006-2007 Operating Room Committee / University of Miami Hospital
- 2005-2008 Performance Improvement Council / Cedars Medical Center
- 2005-2008 Utilization Review / Cedars Medical Center
- 2004-2007 Lighthouse for the Blind, Chairperson, Programs & Services Committee
- 2001-2007 Lighthouse for the Blind (Programs & Services Committee)
- 1998-1999 Ophthalmology Fellowship Selection Committee, Joslin Diabetes Center, Beetham Eye
Institute, Harvard Medical School
- 1996-1998 Rhode Island Department of Health (Diabetes HOY / Committee Member)
- 1995-1996 Ophthalmology Residency Selection Committee, Rhode Island Hospital, Brown
University School of Medicine
- 1993-1994 Massachusetts Medical Society (Geriatric Medicine / Committee Member)

Board of Directors:

- 2002-2007 Miami Lighthouse for the Blind (Chairperson, Programs & Services Committee)

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Professional Affiliations:

1992	Massachusetts Medical Society
1992/96-98	The Association for Research in Vision and Ophthalmology
1993	American Medical Association
1996-present	American Academy of Ophthalmology
1992-2000	Pan-American Association of Ophthalmology
1997-present	American Society of Cataract and Refractive Surgeons
1997-2013	International Society of Refractive Surgery
1998-2000	American Diabetes Association
1998-1999	Research to Prevent Blindness
1998-present	Dominican Ophthalmological Society
1998-present	Dominican Society of Cataract and Refractive Surgeons
1998-2001	The Commonwealth of Massachusetts Board of Medicine
1999-present	Latin-American Society of Cornea, Cataract and Anterior Segment Surgeons
2001-present	The Florida Board of Medicine
2004-2013	American Academy of Ophthalmic Administrators
2004-2013	American Society of Ophthalmic Executives
2009-2013	American Society for Laser Medicine & Surgery

Medical/ Surgical Society Board Member:

2018-present	American Academy of Aesthetic Medicine
1999-2001	Latin-American Society of Cornea, Cataract and Anterior Segment Surgeons (ALACSA) Delegate for the Dominican Republic (1999-2001)

Editorial Boards/Members:

2018-present	American Academy of Aesthetic Medicine
2005-present	Diabetic Microvascular Complications Today (Advisory Board)

Journal Manuscript Reviews:

2024-present	Open Ophthalmology Journal at Bentham Science Publishers
2004-present	Archivos de la Sociedad Española de Oftalmología
2000-present	Survey of Ophthalmology
1999-present	Journal of the American Society of Cataract and Refractive Surgery (ASCRS)
1999-present	American Journal of Ophthalmology (AJO)
1999-present	JAMA Ophthalmology

Book Reviews:

1999-present	SLACK Incorporated
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Consultant:

2005-2010	Alcon® Advisory Board.
2005-2010	Allergan® Glaucoma Advisory Board.
2005-2010	Eli Lilly® US Diabetes Care Ophthalmology Advisory Board.

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2007-2010	Ista Pharmaceuticals
2007-2010	Biosyntrx®
2008-2010	Endo Optiks®
2008-2010	Optos®
2010-2011	Abbott Medical Optics
2010-2011	Healthsun/Wellmax Medical Centers
2011-2013	Interamerican Medical Centers
2018-present	American Academy of Aesthetic Medicine
2018-2022	AMICUS MSO

Research Funding Information:

1999-2001	American Diabetes Association Cataracts, VEGF, and Diabetic Retinopathy	Principal Investigator
1996-1998	The US Food and Drug Administration Collagen Implants and Astigmatism Correction	Co-Investigator

Research Collaborations:

- 2024** Dose-Ranging Study of Efficacy and Safety of Orforglipron, (oral GLP-1 receptor agonist) compared to insulin glargine in participants with type 2 diabetes and obesity or overweight at increased cardiovascular risk (ClinicalTrials.gov identifier: NCT05803421) *Care Access, Coral Springs, Florida.*
- 2009** A Phase IIa Multicenter, Randomized, Double-Blind, Placebo-Controlled Clinical Trial of XXXX in Patients with Type 2 Diabetes Mellitus with Inadequate Glycemic Control on Insulin. *Elite Research, Miami, Florida.*
- 2008** Dose-Ranging Study of the Efficacy and Safety of Oglemilast in Patients with Chronic Obstructive Pulmonary Disease. *Elite Research, Miami, Florida.*
- 2006** Dose Escalation Study to Assess the Safety and Effect on Ventricular Rate of Multiple Oral Doses of XXX in Adult Subjects with Atrial Fibrillation. *Elite Research, Miami, Florida.*

Surgical Instruments Designed:

- ***Espallat JCS Goniotomy Manipulator & Cannula: PATENT FILED (2018)***
- ***Espallat-Deblasio Nucleus Rotator:*** A surgical device used to rotate the nucleus during phacoemulsification. (On the market / ASICO catalog # AE2499)

Teaching Roles:

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2025-Present	<i>Assistant Professor of Clinical Ophthalmology and Visual Sciences.</i> University of South Carolina. Columbia, South Carolina
2002-2007	<i>Voluntary Assistant Professor of Clinical Ophthalmology.</i> University of Miami School of Medicine. Bascom Palmer Eye Institute
1999-2001	<i>Associate Professor of Ophthalmology.</i> National Diabetes Institute (INDEN) Santo Domingo, Dominican Republic.
1998-1999	<i>Clinical Fellow.</i> Assistant Instructor in Surgery (Ophthalmology) Harvard University School of Medicine, Massachusetts
1997-1998	<i>Chief Resident.</i> Assistant Instructor in Surgery (Ophthalmology) Brown University School of Medicine, Rhode Island
1995-1998	<i>Ophthalmology Instructor for Medical Students</i> Medicine Clerkship, Rhode Island Hospital, Rhode Island
1995-1998	<i>Ophthalmology Instructor for Medical Students</i> Surgery Clerkship, Rhode Island Hospital, Rhode Island
1995-1998	<i>Ophthalmology Instructor for Internal Medicine Residents</i> Ophthalmology Clerkship, Rhode Island Hospital, Rhode Island
1995-1998	<i>Ophthalmology Instructor for Emergency Medicine Residents</i> Ophthalmology Clerkship, Rhode Island Hospital, Rhode Island
1994-1995	<i>Internal Medicine Instructor for Medical Students</i> Medicine Clerkship, Carney Hospital, Massachusetts

Clinical Activities:

Clinical Practice/Ophthalmology:

I am focused on Cataract Surgery and comprehensive Ophthalmology, with a particular emphasis on artificial intelligence applications in Ophthalmology and the medical treatment of diabetic retinopathy, including laser treatments.

Time Commitments:

Clinical-Surgery Ophthalmology:	75%
Teaching/Research:	25% plus ongoing teaching during clinical and research time

BIBLIOGRAPHY

PUBLICATIONS: Books.

1. **Espallat A.** Revolutionizing Ophthalmology: The Integration of Artificial Intelligence Algorithms. Hauppauge, NY: Nova Science Publishers; 2024 (ISBN: 979-8-89113-991-6).

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2. **Espallat A.** Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8).
3. Pineda R, **Espallat A**, Perez VL, Rowe S. The Complicated Cataract: The Massachusetts Eye and Ear Infirmary Phacoemulsification Practice Handbook. Thorofare, NJ: SLACK Incorporated; 2001.

PUBLICATIONS: Book Chapters.

1. Valenzuela, E, **Espallat A.** Chapter I “Diabetes Mellitus: Diagnosis, Current, and Future Therapies. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
2. Rowe, S, **Espallat A.** Chapter 2 “Pathogenesis and Epidemiology of Diabetic Eye Disease”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
3. Pineda, R, **Espallat A.** Chapter III “Corneal Abnormalities and Diabetes”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
4. Sha, S, **Espallat A.** Chapter IV “Lens Abnormalities and Diabetes”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
5. Camejo, L, **Espallat, A.** Chapter V “Intraocular Pressure Abnormalities and Diabetes. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
6. To, K, **Espallat, A.** Chapter VI “Optic Nerve Abnormalities and Diabetes”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
7. Paranjpe, R **Espallat, A.** Chapter VII “Cranial Nerve Abnormalities and Diabetes”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
8. **Espallat, A.** Chapter VIII ”Macular Abnormalities and Diabetes”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
9. Montezuma, S, **Espallat, A.** Chapter XI ”Retinal Abnormalities and Diabetes”. Diabetic Eye Disease: A Comprehensive Review. Thorofare, NJ: SLACK Incorporated; 2012 (ISBN:978-1-61711-010-8
10. Lu LW, **Espallat A**, Arenas AC. Chapter 18 “Incision”. Phacoemulsification, Third Edition. Thorofare, NJ: SLACK Incorporated; 2004

PUBLICATIONS

1. **Espallat A.** Ocular Biomarkers for Enhanced Systemic Risk Assessment through Artificial Intelligence. *EC Ophthalmology*. 2025; 16(1): 01-11.

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2. **Espallat A.** Enhancing Operating Room Surgical Efficiency through Artificial Intelligence: A Comprehensive Review. *Surg Res.* 2024; 6(4): 1-8.
3. **Espallat A.** Enhancing Drug Discovery and Development through Artificial Intelligence. *International Journal of Computer Science and Mobile Applications.* 2024;12:1: 01-16
4. **Amberg A, Espallat A.** Transforming glaucoma care with artificial intelligence: A comprehensive review of diagnosis, monitoring, and treatment algorithms. *Ann Med Health Sci Res.* 2024;S1:912-915.
5. **Espallat A.** Outcomes of Sixty-Degree Nasal Goniotomy for Open-Angle Glaucoma. *J Glaucoma* 2023;32:e129–e134
6. **Espallat A.** Artificial-intelligence-automated machine learning as a tool for evaluating facial rhytid images. *J Cosmet Med* 2023;7:60-65.
7. **Espallat A, Lee SL, Correa V, Foster CS, Vitale AT, DiMeo S, Colvin RB.** Expression of fibronectin isoforms in a rat cornea after an epithelial-scraper wound. *Curr. Eye Res.* 13:325-330,1994.
8. **Espallat A, To K.** Optic nerve avulsion. *Arch Ophthalmol.* 1998;116:540-541
9. **Espallat A, Enzer Y, Lipsky S.** Intraorbital metallic foreign body. *Arch Ophthalmol.* 1998;116:824-825.
10. **Espallat A, Janigian R, To K.** Cataracts, bilateral macular holes, and rhegmatogenous retinal detachment induced by lightning. *Am J Ophthalmol.* 1999;127:216-217.
11. **Espallat A, Cortez S.** Fibrous dysplasia of the orbit. *BioMedicina.* 1999; 2(1):48.
12. **Espallat A, Aiello LP, Arrigg P et al.** Canthaxanthin retinopathy. *Arch Ophthalmol.* 1999;117:412-413.
13. **Espallat A, Aiello LP, Calderon RM et al.** Preservation of vision through Weiss' Ring following dense posterior hyaloid hemorrhage. *Am J Ophthalmol.* 1999; 128:376-378.
14. **Espallat A, To K, Perlman E.** Effects of collagen implants in the reduction of high astigmatism induced by penetrating keratoplasty. *J Cataract Refract Surg.* 1999;25:1336-1340.
15. **Espallat A, To K.** Star-shaped maculopathy seen: What is your diagnosis? Case Study. *Ophthalmology Times.* 22 (21): 52, 1997.
16. **Espallat A.** Maximize Outcomes, Minimize Risks during Cataract Surgery. Diabetic Microvascular Complications Today. 2 (2): 35-36. 2005
17. **Espallat A, Foster CS, Colvin RB, Liu J, Lee SL.** Alternative spliced forms of the V region of fibronectin are demonstrated by polymerase chain reaction (PCR) analysis of corneal tissue from a rat epithelial scrape-wound model. *Invest Ophthalmol Vis Sci.* 33 (suppl): 888, 1992.

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18. **Espallat A**, Lee SL, Foster CS, Colvin RB. Analysis of the EIII-B region of fibronectin by polymerase chain reaction of rat corneal tissue. Invest Ophthalmol Vis Sci. 34 (suppl): 1319, 1993.
19. **Espallat A**, Foster CS, Lee SJ, Colvin RB. Growth factors and cytokine expression are demonstrated by polymerase chain reaction analysis of corneal tissue from a rat epithelial scrape wound model J. Cell. Biochem. 17E (suppl): R203, 1993.
20. Pedroza-Seres M, Vitale AT, **Espallat A**, Lee SL, Foster CS. Distribution and expression of collagen types I and III in normal rat cornea and in wounded rat corneal epithelium: Analysis by polymerase chain reaction. Invest Ophthalmol Vis Sci. 34 (suppl): 1318, 1993.
21. Ayliffe W, **Espallat A**, Foster CS, Lee SL. Polymerase chain reaction analysis of the TNF(gene expression in rat corneal wound healing. Invest Ophthalmol Vis Sci. 34 (suppl): 1376, 1993.
22. **Espallat A**, Janigian R, Smith C, Ducharme J. Ocular trauma induced by lightning. Invest Ophthalmol Vis Sci. 38 (suppl): S175, 1997.
23. **Espallat A**, To K, Perlman E. Effects of collagen implants in the reduction of high astigmatism induced by penetrating keratoplasty. Invest Ophthalmol Vis Sci. 39 (suppl): S347, 1998.
24. **Espallat A**, Aiello LP, Shah ST et al. Progression of diabetic retinopathy after phacoemulsification cataract extraction and intraocular lens implantation. Invest Ophthalmol Vis Sci. 40 (suppl): S1656, 1999.
25. Pokras F, **Espallat A**, Aiello LP. Correlation of VEGF in the urine, plasma and vitreous with activity of diabetic retinopathy. Invest Ophthalmol Vis Sci. 40 (suppl): S4186, 1999.
26. **Espallat A**, Aiello LP, Shah ST et al. Progression of diabetic retinopathy after phacoemulsification cataract extraction and intraocular lens implantation. Symposium on Cataract, IOL and Refractive Surgery. (suppl): April 1999.

PUBLICATIONS: Non-print Materials:

Online Courses.

1. **Espallat A**. The Human Orbit: Udemy; 2016. <https://www.udemy.com/ophthalmology-the-human-orbit/learn/>

CD ROM Contributor.

1. Espallat, A: Highlights of the ASCRS 1999 Annual Meeting. "Progression of diabetic retinopathy after cataract surgery." Boston: Ophthalmology Interactive; 1999. (CD-ROM)

AUDIOTAPE Contributor.

1. Espallat A, Murtha T, Shah S. Management of Cataracts in Eyes with Diabetic Retinopathy. 1999 American Society of Cataract and Refractive Surgery Annual Meeting.

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2. Espallat A, Murtha T, Shah S. Management of Cataracts in Eyes with Diabetic Retinopathy. 2000 American Society of Cataract and Refractive Surgery Annual Meeting.
3. Espallat A, Murtha T, Shah S. Management of Cataracts in Eyes with Diabetic Retinopathy. 2001 American Society of Cataract and Refractive Surgery Annual Meeting.
4. Espallat A, Murtha T, Shah S. Management of Cataracts in Eyes with Diabetic Retinopathy. 2002 American Society of Cataract and Refractive Surgery Annual Meeting.