



Wills Eye Hospital at ARVO 2026 Annual Meeting

Congratulations to the Wills Eye Faculty and Trainees who are authors on **75** Abstracts and delivering **44** presentations (**4** talks and **40** posters) at this year’s Education Session “Imaging in the Eye” and Annual Meeting!

Oral presentations are highlighted in blue.

Education Session: Imaging in the Eye
Saturday, May 2

8:00 AM-5:30 PM

Mile High Foyer - Artificial Intelligence & Deep Learning (Session Number: 539425)

Streamlining the Qualification of Macular OCT Scans in a Reading Center Employing Deep Learning Algorithms
 Authors: **Heather Giusto, Christian Raimondo, Rachel Matayev, Yoav Gutterman, Ronald Zambrano, Fabio Lavinsky, Gadi Wollstein, Joel Schuman**

Mile High Foyer - Glaucoma (Session Number: 539421)

Association of Structural Progression and Intraocular Pressure Changes with Glaucoma Medication Escalation in Primary Open-Angle Glaucoma

Authors: **Hannah Lee, Fabio Lavinsky, Bo-Young Kim, Ronald Zambrano, Ed Zhang, Dilru Amarasekera, Lauren Hock, Ping Huang, Natasha Kolomeyer, Reza Razeghinejad, Jonathan Myers, Gadi Wollstein, Joel Schuman**

Deep Learning Model for Automated Macular and Optic Nerve Head Segmentations of Nonhuman Primate OCT Scans

Authors: **Mahila Krishnamurthy, Ronald Zambrano, Andreas Theocharis, Eduardo de Carvalho Mazzocato, Romy Bejjani, Gabriel Jiménez-Berrios, Jacob Lester, Gabriela Schwantes, Ezekiel Ede, Fabio Lavinsky, Joel Schuman, John Danias, Gadi Wollstein**

Longitudinal OCT Angiography Vessel Density Loss and Macular Thinning in Experimental Glaucoma

Authors: **Andreas Theocharis, Ronald Zambrano, Romy Bejjani, Eduardo de Carvalho Mazzocato, Gabriel Jiménez-Berrios, Yoav Gutterman, Ezekiel Ede, Gabriela Schwantes, Loan Huynh, Daniel Ruminski, Bo-Young Kim, Fabio Lavinsky, Joel Schuman, John Danias, Gadi Wollstein**

Structural Glaucoma Progression Before and After Selective Laser Trabeculoplasty

Authors: **Raeesah Ahsan, Yoav Gutterman, Bo-Young Kim, Priyanka Bhatnagar, Ronald Zambrano, Fabio Lavinsky, Gadi Wollstein, Joel Schuman**

Structural Progression of Open-Angle Glaucoma Following Trabecular Bypass Surgery

Authors: **Priyanka Bhatnagar, Yoav Gutterman, Fabio Lavinsky, Bo-Young Kim, Raeesah Ahsan, Ronald Zambrano, Gadi Wollstein, Joel Schuman**

Structure-Function Modeling in Glaucoma Using a Quantitative, Spatially Resolved RNFL Cluster Analysis from OCT Volumes

Authors: **Darron King, Fabio Lavinsky, Bo-Young Kim, Ed Zhang, Ronald Zambrano, Ting-Fang Lee, Gadi Wollstein, Joel Schuman**

10:30 AM-10:45 AM

Mile High Ballroom 2B/3B/2C/3C - [Anterior Eye and Glaucoma \(Session Number: 539322\)](#)

Super-Resolution Wide-Field Anterior Segment OCT and Angiography via 3D Volumetric Montaging
Presentation Number: PP008

Authors: **Ronald Zambrano, Raymond Fang, Yoav Gutterman, Parisa Yazdankhah Kenary, Fabio Lavinsky, Gadi Wollstein, Hao Zhang, Joel Schuman**

Sunday, May 3

8:00 AM-9:45 AM

Poster Hall - Miscellaneous tumors and ocular adnexa (Session Number: Session ID: 107)

0523: Combined Hamartoma of the Retina and Retinal Pigment Epithelium: An Update on Clinical Characteristics and Associated Complications in 99 Eyes

Authors: **Kalpita Das , Taweevat Attaseth, Robert James Medina, Carol L. Shields**

Poster Hall - Patient reported outcomes (Session Number: Session ID: 111)

1113: Thematic and Sentiment Analysis of Patient Narratives of Refractive Surgery on Reddit

Authors: **Henry Bair**

1:00 PM-2:45 PM

Poster Hall - AI applications and computational science I (Session Number: Session ID: 129)

0292: Deep Learning Model Highlights Areas of Structural Significance When Detecting Glaucoma in OCT Volumes

Authors: **Yoav Gutterman, Fabio Lavinsky, Ronald Zambrano, Bo-Young Kim, Loan L.P Huynh, Christian D. Raimondo, Qiang Zhang,** Hiroshi Ishikawa, Bhavna Josephine Antony, **Joel S. Schuman, Gadi Wollstein**

0298: Batch-Effect Harmonization of Glaucoma Structural Measurements Across Multiple OCT Devices using ComBat

Authors: **Ronald Zambrano, Raeesah Ahsan, Yoav Gutterman, Heather Giusto, Priyanka Bhatnagar, Ryan Lamrani, Lei Zheng, Qiang Zhang,** Ting-Fang Lee, **Ali Salimi, Dilru Amarasekera, Lauren E. Hock, Ping Huang, Natasha Kolomeyer, Reza Razeghinejad, Jonathan S. Myers, Fabio Lavinsky,** Hasan Ayaz, **Gadi Wollstein, Joel S. Schuman**

Poster Hall - AI in ophthalmology I (Session Number: Session ID: 131)

0376: Follow-Up Completion after Ophthalmic Emergency Department Encounters: Clinical Patterns and Machine Learning–Based Risk Prediction

Authors: **Joseph Weintraub , Collin Richards, Christian D. Raimondo, Erik Massenzio, Jordan Deaner**

Poster Hall - Functional testing (Session Number: Session ID: 128)

Moderator: **Romy Bejjani**

0438: Clinical characteristics and outcomes of acute retinal necrosis-associated rhegmatogenous retinal detachment repair: a single center study

Authors: **Timothy T Xu**, , **Lily Farrell**, **Samantha Massenzio**, **Justin Muste**, **Jordan Deaner**

0439: Predictors of Visual Outcomes in Surgically Managed Hemorrhagic Choroidal Detachment

Authors: **Alexander James Shaer**, **Alexander James Shaer**, **Tadashi Yokoi**, **Taku Wakabayashi**,
Sudheshna Vemula, Kristine Wang, Bahram Pashae, **Bita Momenaei**, **Trisha Ortiz**,
Omar Masoud, **Napahat Orprayoon**, **Michael Cohen**, **Meera Sivalingham**

Monday, May 4

11:15 AM-1:00 PM

Poster Hall - Retinoblastoma (Session Number: Session ID: 223)

0312: Update on High-Dose Intravitreal Topotecan for Recurrent Retinoblastoma: 81 Consecutive Injections

Authors: **Robert James Medina**, **Taweevat Attaseth**, **Sara E. Lally**, **Carol L. Shields**

Poster Hall - Vitreoretinal surgery and retinal detachment II (Session Number: Session ID: 222)

0286: Universal Face Masking and Rates of Endophthalmitis: A Multicenter Study

Authors: **Erik Massenzio**, **Glenn Oh**, **Bita Momenaei**, **Sandy Samuel**, **Anthony Obeid**, Ali Salman,
Kush Patel, Lucy Cobbs, Philip Storey, Peter Tang, Sumit Shah, **Sunir Garg**

0293: Surgical outcomes and predictors of massive epiretinal membrane after primary rhegmatogenous retinal detachment repair

Authors: **Omar Masoud**, **Trisha Ortiz**, **Tadashi Yokoi**, **Alexander James Shaer**, **Napahat Orprayoon**, **Jason Hsu**

0294: Analysis of risk factors associated with visual outcomes in patients after vitrectomy and subretinal injection of tissue plasminogen activator for submacular hemorrhage secondary to neovascular age-related macular degeneration

Authors: **Trisha Ortiz**, **Alexander James Shaer**, **Omar Masoud**, **Napahat Orprayoon**, **Tadashi Yokoi**, **Jason Hsu**

3:00 PM-4:45 PM

Poster Hall - Diabetic eye diseases I (Session Number: Session ID: 247)

0064: Incidence and Management of Ocular Hypertension Following 0.19 mg Fluocinolone Acetonide Implants: Real-World Evidence in Diabetic Macular Edema.

Authors: **Lily Farrell**, Isabella Gomes, **Hemal Patel**, **Madison M. Woods**, **Sidra Zafar**, **Justin Muste**, **James Dunn**, **David Fell**, **Jordan Deaner**

Poster Hall - OCT clinical applications (Session Number: Session ID: 253)

0564: Association of Macular Thickness Fluctuation with Long-Term Vision in Uveitic Macular Edema

Authors: **David Camacho**, **Saif Hamdan**, **Jack Dickson**, **Bitá Momenaei**, **James Dunn**, **Jordan Deaner**

Tuesday, May 5

1:15 PM-3:00 PM

Poster Hall - Neuro (Session Number: Session ID: 346)

0509: Clinical and metabolic profiles of NAION patients by GLP-1RA exposure: A retrospective cohort study

Authors: **Ari Hayden August**, **Leah Prischak**, **Elizabeth Goldstein**, Roger Sheffmaker, Andrew J. Garfield, **Shruthi Harish**, **Sarah Thornton**, **Danijel Josip Pericic**

0519: Atypical Ocular Phenotype in Secondary Tumoral Calcinosis: Challenging Current Diagnostic Assumptions

Authors: **Danijel Josip Pericic**, **Andrew J. Garfield**, **Ari Hayden August**

0535: Leptomeningeal Enhancement: Tumor, Treatment Sequelae or Something Else?

Authors: **Ramya Gnanaraj**, **Sarah Thornton**

1:15 PM-3:00 PM

Poster Hall - Uveal melanoma (Session Number: Session ID: 350)

0832: ≥ 15 -Letter Visual Acuity Loss Post-Plaque Radiotherapy for Posterior Uveal Melanoma: 4000 Eyes in the Pre-Anti-VEGF Era

Authors: **Aruba Zafar, Robert Medina, Hidayet Sener, Sara E. Lally, Carol L. Shields**

1:45 PM-2:00 PM

Bluebird Ballroom 1B - Diabetic eye disease II (Session Number: Session ID: 327)

Faricimab reduces hard exudates & microaneurysms vs aflibercept 2 mg in YOSEMITE/RHINE using automated segmentation on color fundus photography in DME

Authors: **Samir N Patel, Andreas Pollreisz, Prethy Rao, Christiana Dinah, Dawn Sim, Ming Yang, Acner Camino Benech, Kara Gibson, Fethallah Benmansour**

2:45 PM-3:00 PM

Mile High 4C - Corneal biomechanic (Session Number: Session ID: 336)

Outcomes of Wavefront-Guided Scleral Lenses in Keratoconus Patients

Authors: **Caroline Cotton, Omar Masoud, Clark Chang, Alexander James Shaer, Trisha Ortiz, Naphat Orprayoon, Samy El-Omda, Beeran Meghpara, Zeba Syed**

Wednesday, May 6

10:15 AM-12:00 PM

Poster Hall - Glaucoma epidemiology (Session Number: Session ID: 420)

0300: The Association between Neighborhood Deprivation and Other Demographic Factors with Choice of Glaucoma Surgery

Authors: **Mohit Jethi, Jacqueline Chen, Bo-Young Kim, Fabio Lavinsky, Ronald Zambrano, Gadi Wollstein, Joel S. Schuman**

Poster Hall - Translational uveitis research and quality-of-life in uveitis (Session Number: Session ID: 427)

0564: Real World Clinical Features and Visual Outcomes of Pediatric Noninfectious Posterior and Pan-Uveitis

Authors: **Justin Muste, Jonathan Martin, Rhea Teng, Sidra Zafar, Timothy T. Xu, Collin Richards,**

Erik Massenzio, Yoshihiro Yonekawa, James Dunn, David Fell, Jordan Deaner

2:00 PM-3:45 PM

Poster Hall - Lasers and surgery I (Session Number: Session ID: 459)

0879: Adverse Events with Trabecular Meshwork Bypass Devices Reported to the MAUDE Database from 2020-2025

Authors: **Minjia Tang, Jonathan S. Myers, Dilru Amarasekera**

Poster Hall - Lasers and surgery II (Session Number: Session ID: 460)

0902: Success of Primary Selective Laser Trabeculoplasty in Juvenile Open-Angle Glaucoma

Authors: **Priyanka Bhatnagar, Preet Sohal, Fabio Lavinsky, Bo-Young Kim, Ronald Zambrano, Raeesah Ahsan, Yoav Gutterman, Dilru Amarasekera, Lauren E. Hock, Ping Huang, Natasha Kolomeyer, Reza Razeghinejad, Jonathan S. Myers, Gadi Wollstein, Joel S. Schuman**

Thursday, May 7

8:00 AM-9:45 AM

Poster Hall - Diabetic retinopathy (Session Number: Session ID: 516)

0871: Clinical Outcomes Following Therapy Switch from Eylea to Eylea HD

Authors: **Nathalie Perez, Omar Masoud, Emmanuel Worede-Kal, Trisha Ortiz, Gabrielle Kozlowski, Alexander James Shaer, Naphat Orprayoon, Samy El-Omda, Michael Klufas**

Poster Hall - Ocular blood flow and vascular pathophysiology (Session Number: Session ID: 506)

0160: Temporal Dynamics of OCT Angiographic and Structural Changes in Experimental Glaucoma

Authors: **Andreas Theocharis, Ronald Zambrano, Romy Bejjani, Gabriel A. Jiménez-Berríos, Eduardo de Carvalho Mazzocato, Ezekiel Ede, Gabriela C Schwantes, Loan L.P Huynh, Daniel Ruminski, Ting-Fang Lee, Qiang Zhang, Fabio Lavinsky, Joel S. Schuman, John Danias, Gadi Wollstein**

Poster Hall - Posterior segment and optic nerve imaging (Session Number: Session ID: 507)

0173: Agreement Between Deep Learning-Derived Vessel Biomarkers from Vis-OCT and OCT Angiography in Healthy and Glaucomatous Eyes

Authors: **Hemal Patel, Christian Raimondo, Fabio Lavinsky, Alisha Desai, Yoav Gutterman, Ronald Zambrano, Dilru Amarasekera, Lauren E. Hock, Ping Huang, Natasha Kolomeyer, Reza Razeghinejad, Jonathan S. Myers, Gadi Wollstein, Hao Zhang, Joel S. Schuman**

0180: Longitudinal Assessment and Localization of Retinal Nerve Fiber Layer Thickness Change in Non-Human Primates.

Authors: **Romy Bejjani, Jacob Robert Lester, Andreas Theocharis, Gabriel A. Jiménez-Berrios, Eduardo de Carvalho Mazzocato, Ronald Zambrano, Ezekiel Ede, Bo-Young Kim, Armando G. Burgos, Arthur Fernandes, Gabriela C Schwantes, Fabio Lavinsky, Joel S. Schuman, James Higham, Amanda D. Melin, John Danias, Gadi Wollstein**

0191: Reproducibility and Discriminative Performance of a Quantitative, Spatial Cluster Analysis from OCT Volumes

Authors: **Darron King, Fabio Lavinsky, Bo-Young Kim, Jonathan Zontag, Fernanda Mari Fagundes Fujihara, Ronald Zambrano, Ting-Fang Lee, Gadi Wollstein, Joel S. Schuman**

0198: Longitudinal Evaluation of Structure and Function in Subjects with Primary Open-Angle Glaucoma and Diabetes Mellitus Without Diabetic Retinopathy

Authors: **Deena Shefter, Amer Ahmed, Fabio Lavinsky, Ronald Zambrano, Qiang Zhang, Dilru Amarasekera, Lauren E. Hock, Ping Huang, Natasha Kolomeyer, Reza Razeghinejad, Jonathan S. Myers, Gadi Wollstein, Joel S. Schuman**

0201: In-Vivo Lamina Cribrosa Microstructure Responses to Intracranial Pressure Modulation in Experimental Glaucoma

Authors: **Eduardo de Carvalho Mazzocato, Ronald Zambrano, Bo-Young Kim, Loan L.P Huynh, Gabriel A. Jiménez-Berrios, Andreas Theocharis, Romy Bejjani, Ezekiel Ede, Gabriela C Schwantes, Jacob Robert Lester, Yoav Gutterman, Fabio Lavinsky, Joel S. Schuman, John Danias, Gadi Wollstein**

Poster Hall - Posterior segment imaging, lasers and vitreoretinal interface disease (Session Number: Session ID: 508)

0212: Real-World Outcomes of Focal vs Subthreshold Micropulse Laser in Central Serous Chorioretinopathy

Authors: **Naphat Orprayoon, Trisha Ortiz, Irene Park Kim, Eve Miller, Haleema Siddiqui, Mhamed Ali Guerch, Alexander James Shaer, Omar Masoud, Jason Hsu**

0236: Reliability of Detecting Retinal Breaks by Steered Ultrawide Field Fundus Imaging

Authors: **Collin Richards, Roselind Ni, Olufemi Adams, Omar Masoud, Anton Orlin**

Poster Hall - Training and education (Session Number: Session ID: 505)

0133: Descriptive Analysis of Retina Fellowship Program Directors in the United States in 2025

Authors: **Bela Parekh, Omar Masoud**, Samy El-Omda, Neal Sandeep Shah

1:15 PM-1:30 PM

Bluebird Ballroom 1A - Posterior segment and optic nerve imaging (Session Number: Session ID: 517)

Reproducibility of a Spatially Determined Quantitative Structural Cluster Analysis Employing Automated Super Pixel Measurements from a Swept-Source Optical Coherence Tomography Device

Authors: **Sahil M Shah, Fabio Lavinsky, Bo-Young Kim, Darron King, Ronald Zambrano, Fernanda Mari Fagundes Fujihara, Dilru Amarasekera, Lauren E. Hock, Ping Huang, Natasha Kolomeyer, Reza Razeghinejad, Jonathan S. Myers, Gadi Wollstein, Joel S. Schuman**

On-demand presentations

Wills Eye on Diabetes Day 2025: Health Literacy, Trust, and Diabetic Retinopathy Detection in an Urban Community Screening

Authors: **Leah Prischak, Christian D. Raimondo, Charlotte N. Shields, Leslie Hyman, Allen Ho**

Changes in Selective Laser Trabeculoplasty Preferred Practice Patterns Following the LiGHT Study at a Single Tertiary Care Hospital

Authors: **You Zhou, Hannah Lee, Fabio Lavinsky, Qiang Zhang, Ronald Zambrano, Gadi Wollstein, Joel S. Schuman**