

SHILEY EYE INSTITUTE VITERBI FAMILY DEPARTMENT OF OPHTHALMOLOGY ARVO SCHEDULE 2021

| Session Date | Session Time (EDT) | Session Title | Presenter Name | Authors | Paper or Poster | Title |
|--------------|---------------------|---|-------------------------------|--|-----------------|---|
| 5/1/21 | 7:15 AM - 9:00 AM | OCT - Clinical applications | Varsha Alex | Varsha Alex, Tahmineh Motevasseli, Jefy A. Jayamon, Sumit R. Singh, Dirk U. Bartsch , Lingyun Cheng , Shyamanga Borooh , William R. Freeman | Poster | Assessing the validity of a cross-platform retinal image segmentation tool in normal and diseased retina |
| 5/1/21 | 7:15 AM - 9:00 AM | OCT - Clinical applications | Jasmin Rezapour | Jasmin Rezapour, Christopher Bowd , Jade Dohleman, Akram Belghith , James A. Proudfoot, Mark Christopher, Leslie Hyman, Jost Jonas, Rafaella Penteado, Sasan Moghimi , Huiyuan Hou, Massimo A. Fazio, Robert N. Weinreb , Linda M. Zangwill | Poster | Macular thickness and vessel density in glaucoma eyes with and without high axial myopia |
| 5/2/21 | 9:00 AM - 10:45 AM | Aging, Social and Environmental Determinants and the Eye | Terrence Lee (MS3) | Terrence C. Lee; Alison X. Chan; John J. McDermott; Bitu Shahrivini; Gordon Y. Ye; Amy M. Sitapati, MD; Camille Nebeker, MS, EdD; Bharanidharan Radha Saseendrakumar, MS; Sally L. Baxter, MD, MSc | Poster | Social Determinants of Health Data for Patients with Eye Conditions in a Nationwide Data Repository |
| 5/3/21 | 1:30 PM - 3:00 PM | AMD: clinical research - new therapies and technologies | William R. Freeman, MD | William R. Freeman , Joel F. Grondek, Melina Cavichini, Alexandra Warter, Ruhan Fan, Kristyn Huffman, Michael J. Sailor | Paper | Ophthalmic Properties of Targeted Fusogenic Nanoparticles as Therapeutic Carriers |
| 5/3/21 | 1:30 PM - 3:00 PM | Hot Topics in Glaucoma | Alireza Kamalipour | Alireza Kamalipour, Sasan Moghimi , Mohammad Sadegh Jazayeri, Pooya Khosravi, James A. Proudfoot, Huiyuan Hou, Takashi Nishida, Adeleh Yarmohammadi, Ryan Caezar C. David, Nevin W. El-Nimri, Jasmin Rezapour, Christopher Bowd , Linda M. Zangwill , Robert N. Weinreb | Paper Abstract | Artificial Intelligence Characterization of Spatial Patterns of Microvascular Dropout in Glaucoma |
| 5/3/21 | 1:30 PM - 3:15 PM | Imaging of posterior segment II | Nobuyoshi Unno | Nobuyoshi Unno, Varsha Alex, Mahima Jhingan, Leonardo Lando, William R. Freeman , Shyamanga Borooh | Poster | Comparing Vessel Whitening Using Confocal Scanning Laser MultiColor and Color Fundus Imaging in Retinal Vein Occlusion |
| 5/3/21 | 1:30 PM - 3:15 PM | Machine learning I | LeAnn Mendoza | LeAnn Mendoza, Mark Christopher, Nicole Brye, James A. Proudfoot, Akram Belghith , Christopher Bowd , Jasmin Rezapour, Massimo A. Fazio, Michael H. Goldbaum , Robert N. Weinreb , Christopher A. Girkin, Jeffrey M. Liebmann, C Gustavo De Moraes, Linda M. Zangwill | Poster | Deep Learning Predicts Demographic and Clinical Characteristics from Optic Nerve Head OCT Circle and Radial Scans |
| 5/3/21 | 1:30 PM - 3:15 PM | Structure/Function, Visual Fields, Psychophysics, and Electrophysiology | Nevin El-Nimri | Nevin W. El-Nimri, Christopher Bowd , Rafaella Penteado, James A. Proudfoot, Huiyuan Hou, Patricia I. Manalastas, Elham Ghahari, Linda M. Zangwill , Sasan Moghimi , Robert N. Weinreb | Poster | Agreement between Compass Fundus Perimeter New Grid and 10-2 Testing Protocols for Detecting Central Visual Field Defects |
| 5/3/21 | 3:00 PM - 3:15 PM | Live Discussion | William R. Freeman, MD | William R. Freeman | Live Discussion | AMD: clinical research - new therapies and technologies |
| 5/3/21 | 4:30 PM - 6:30 PM | Diabetic Retinopathy Epidemiology and Care Management | Alison Chan (MS3) | Alison X. Chan, John J. McDermott IV, Terrence C. Lee, Gordon Y. Ye, Bitu Shahrivini, Bharanidharan Radha Saseendrakumar, and Sally L. Baxter | Poster | Associations Between Healthcare Utilization and Access and Diabetic Retinopathy Complications |
| 5/3/21 | 8:15 AM - 10:00 AM | Pharmacological intervention and cellular mechanisms | Wonkyu Ju, PhD | Wonkyu Ju , Keunyoung Kim, Soo-Ho Choi, Guy Perkins | Poster | AIBP promotes mitochondrial bioenergetics in Müller glia in response to elevated pressure |
| 5/4/21 | 11:15 AM - 1:00 PM | Image processing and interpretation | Melina Cavichini Cordeiro | Melina Cavichini Cordeiro, Dirk U. Bartsch , Alexandra Warter, Sumit R. Singh, An Cheolhong, Junkang Zhang, Yiqian Wang, Truong Q. Nguyen, William R. Freeman | Poster | Evaluation of real world efficacy of Artificial Intelligence assisted image co-localization |
| 5/4/21 | 11:15 AM - 1:00 PM | Retinal Degenerations | Lingling Huang | Lingling Huang, Kristyn Huffman, Shyamanga Borooh , Benjamin Bakall | Poster | A novel pathogenic mutation of the TIMP3 gene in Sorsby Fundus Dystrophy |
| 5/4/21 | 11:15 AM - 12:45 PM | Imaging in Glaucoma I: Clinical Studies | Takashi Nishida | Takashi Nishida, Sasan Moghimi , Huiyuan Hou, James A. Proudfoot, Ryan Caezar C. David, Alireza Kamalipour, Nevin W. El-Nimri, Christopher Bowd , Jasmin Rezapour, Linda M. Zangwill , Robert N. Weinreb | Paper Abstract | Long-Term Reproducibility of Optical Coherence Tomography Angiography in Stable Glaucomatous Eyes |

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| 5/4/21 | 11:15 AM -1:00 PM | Genetics of Retinal dystrophies | Berzhan Kurmanov | Berzhan Kurmanov , Pooja Biswas , Bryan Lajoie , Hiroko Matsui , Jason Zhou , S. Amer Riazuddin , Jacque L. Duncan , Kelly Frazer, Semyon Kruglyak, Radha Ayyagari | Poster | Identification of causative mutations in ten pedigrees with inherited retinal degeneration by whole genome analysis (WGS) |
| 5/4/21 | 2:15 PM - 4:00 PM | AMD and Retinal Disease Epidemiology | John McDermott (MS3) | John J. McDermott IV; Terrence C. Lee; Alison X. Chan; Gordon Y. Ye; Bitu Shahrvin; Bharanidharan Radha Saseendrakumar; Sally L. Baxter | Poster | Assessing Risk Factors for Retinal Vein Occlusions Using the NIH All of Us Research Program |
| 5/5/21 | 11:45 AM - 1:15 PM | Data science, machine learning, and artificial intelligence | Rui Fan | Rui Fan, Christopher Bowd , Mark Christopher, Nicole Brye, James A. Proudfoot, Jasmin Rezapour, Akram Belghith , Robert N. Weinreb , David Kriegman, Linda M. Zangwill | Paper | Deep Learning for Detecting Glaucoma in the Ocular Hypertension Treatment Study: Implications for Clinical Trial Endpoints |
| 5/5/21 | 11:45 AM - 1:30 PM | Macular diseases/ macular edema | Alexandra Warter | Alexandra Warter, Melina Cavichini Cordeiro, Dirk-Uwe G. Bartsch , Sumit R. Singh, William R. Freeman | Poster | Simultaneous combination steroid anti-VEGF therapy for monotherapy resistant macular disease |
| 5/5/21 | 11:45 AM - 1:30 PM | Molecular and Structural | Andrew Tran | Andrew Q. Tran, Jasmin Rezapour, Christopher Bowd , Nevin W. El-Nimri, James A. Proudfoot, Jade Dohleman, Jost Jonas, Robert N. Weinreb , Linda M. Zangwill | Poster | Comparing measurements of optic disc ovality index and rotation angle in myopic eyes using manual, clinical disc margin photography-based and automated, Bruch's membrane opening OCT-based techniques |
| 5/5/21 | 11:45 AM - 1:30 PM | Macular diseases/ macular edema | Darren Knight, MD | Darren Knight, Chris Y. Wu, Joshua Ong, Andrew W. Eller, Jay Chhablani, Igor Kozak, William R. Freeman | Poster | Anatomic and Visual Outcomes in Recurrent and Chronic Macular Hole Surgery |
| 5/5/21 | 2:00 PM - 3:30 PM | SIG | Radha Ayyagari, PhD | Radha Ayyagari, PhD | SIG | Deciphering the molecular landscape of retinal regeneration and degeneration using single cell genomics |
| 5/5/21 | 2:15 PM - 4:15 PM | GL- Predictive Biomarkers | Sally Baxter, MD, MSc | Baxter, Sally L. ; Radha Saseendrakumar, Bharanidharan; Paul, Paulina; Kim, Jihoon; Bonomi, Luca; Kuo, Tsung-Ting; Loperena, Roxana; Ratsimbazafy, Francis; Ramirez, Andrea; Ohno-Machado, Lucila | Paper | Predictive Analytics for Glaucoma using Data from the All of Us Research Program |
| 5/5/21 | 6:00 AM - 7:45 AM | Adaptive optics | Dirk-Uwe G. Bartsch, PhD | Dirk-Uwe G. Bartsch , Mahima Jhingan, Qais Zawaydeh, Melina Cavichini Cordeiro, William R. Freeman | Poster | Comparison of adaptive optics scanning laser ophthalmoscopy and high-magnification scanning laser ophthalmoscopy |
| 5/5/21 | 6:00 AM - 7:45 AM | Genetics, (gen)omics, systems and computational biology in ocular health and disease | Kristy Lee | Kristy Lee , Emily Place , Radha Ayyagari , Rui Chen , Kerry Goetz , Robert B. Hufnagel , Linda Reis , Susanne Roosing, Emmanuelle Souzeau , Patrick Yu-Wai-Man, Brian Mansfield, Janey L. Wiggs | Poster | Establishing Standardized Criteria to Improve the Interpretation of Genetic Testing for Ocular Disorders |
| 5/6/21 | 10 AM - 12:30 PM | Live Paper | Radha Ayyagari, PhD | Radha Ayyagari, PhD | Live Paper | Developing FDA recognized standards for gene-disease association and genetic variant interpretation for inherited eye diseases |
| 5/6/21 | 10:30 AM - 12:00 PM | SIG | Radha Ayyagari, PhD | Radha Ayyagari, PhD | SIG | Developing FDA recognized standards for gene-disease association and genetic variant interpretation for inherited eye diseases |
| 5/6/21 | 8:15 AM - 10:00 AM | Neurodegeneration and neuroprotection | Kevin Zhang | Kevin Y. Zhang, Aru Nagalingam, Pingwu Zhang, Xiaoli Chang, Harry A. Quigley, Derek S. Welsbie , Donald J. Zack, Thomas V. Johnson | Poster | Neuroprotection of transplanted human stem cell derived retinal ganglion cells: advancing cell replacement strategies for optic nerve regeneration |
| 5/6/21 | 8:15 AM - 9:45 AM | Structure/Function Relationships | Brian Krawitz | Brian Krawitz , C Gustavo De Moraes, George A. Cioffi, Christopher A. Girkin, Massimo A. Fazio, Christopher Bowd , Robert N. Weinreb , Linda M. Zangwill , Jeffrey M. Liebmann | Paper Abstract | The effect of trabeculectomy on rates of visual field progression and retinal nerve fiber layer thinning |
| 5/7/21 | 11:15 AM - 1:00 PM | Data Science, Machine Learning & Artificial Intelligence | Sasan Moghimi, MD | Sasan Moghimi , Alireza Kamalipour, Pooya Khosravi, Mohammad Sadegh Jazayeri, Huiyuan Hou, James A. Proudfoot , Linda M. Zangwill , Jeffrey M. Liebmann, Christopher A. Girkin, Robert N. Weinreb | Poster | Predicting central 10 degrees visual field from peripapillary optical coherence tomography using deep learning approach |

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| 5/7/21 | 11:15 AM - 1:00 PM | Data science, machine learning, and artificial intelligence | Benton Chuter | Benton Chuter, Mark Christopher, Rui Fan, Akram Belghith , Christopher Bowd , Nicole Brye, James A. Proudfoot, Jasmin Rezapour, Massimo A. Fazio, Michael H. Goldbaum , Robert N. Weinreb , Christopher A. Girkin, Jeffrey M. Liebmann, C Gustavo De Moraes, Linda M. Zangwill | Poster Abstract | A deep learning model to assess fundus photograph image quality and improve predictive value of deep learning models of glaucoma detection. |
| 5/7/21 | 11:15 AM - 1:00 PM | Data science, machine learning, and artificial intelligence | Mark Christopher, PhD | Mark Christopher, Christopher Bowd , James A. Proudfoot, Nicole Brye, Akram Belghith , Michael H. Goldbaum , Jasmin Rezapour, Massimo A. Fazio, Christopher A. Girkin, C Gustavo De Moraes, Jeffrey M. Liebmann, Robert N. Weinreb , Linda M. Zangwill | Poster Abstract | Performance of Deep Learning Models to Detect Glaucoma Using Unsegmented Radial and Circle OCT Scans of the Optic Nerve Head |
| 5/7/21 | 11:15 AM - 12:45 PM | Deep Learning and Ocular Blood Flow | Christopher Bowd, PhD | Christopher Bowd , Akram Belghith, Mark Christopher, Michael H. Goldbaum , Rui Fan, Jasmin Rezapour, Sasan Moghimi , Alireza Kamalipour, Huiyuan Hou, Linda M. Zangwill , Robert N. Weinreb | Paper Abstract | Deep-learning enface image classifier analysis of optical coherence tomography angiography images improves classification of healthy and glaucoma eyes. |
| 5/7/21 | 12:45 PM - 1:00 PM | Live Paper | Christopher Bowd, PhD | Christopher Bowd | Live Paper | Deep Learning and Ocular Blood Flow |
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