Stanford



Loh-Shan Bryan Leung, MD

Clinical Associate Professor, Ophthalmology

CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

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Bio

CLINICAL FOCUS

- Vitreoretinal Surgery
- Retinal Electrophysiology
- Retinal Degeneration
- Age Related Macular Degeneration
- Retina Specialist

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Ophthalmology

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Society of Retinal Specialists (2014 - present)
- Member, American Academy of Ophthalmology (2012 - present)

PROFESSIONAL EDUCATION

- Internship: St Vincent's Catholic Medical Center Manhattan / New York Medical College (2006) NY
- Fellowship: Stanford University Ophthalmology Fellowships (2010) CA
- Residency: Columbia University Medical Center Ophthalmology (2009) NY
- Board Certification: Ophthalmology, American Board of Ophthalmology (2010)
- Medical Education: Johns Hopkins University School of Medicine (2005) MD
- Fellowship, Stanford University- Ophthalmology Department , Vitreoretinal Diseases and Surgery (2012)

Research & Scholarship

CLINICAL TRIALS

- Phase 3, Randomized, Placebo-Controlled Study of Tinlarebant to Explore Safety and Efficacy in Adolescent Stargardt Disease, Recruiting

Publications

PUBLICATIONS

- **Age-related macular degeneration associated with optic disc drusen** *FRONTIERS IN OPHTHALMOLOGY*
  Alkhabaz, A., Kim, M., Pujari, R., Zhang, J., Ren, Y., Leung, L., Liao, Y.
  2025; 5: 1620616

- **Deep-learning algorithm for the diagnosis and prediction of hydroxychloroquine retinopathy: An International, multi-institutional study.** *Ophthalmology. Retina*
  Woodward-Court, P., Hogg, J., Lee, T., Taribagil, P., Zhao, C. S., Otti, V., Tucker, W. R., Allingham, M., Alekseev, O., Wagner, S. K., Myung, D., Leung, L., Lad, et al
  2025

- **Enhanced genotype-phenotype analysis using multimodal adaptive optics and 3D protein structure in Bietti Crystalline Dystrophy.** *American journal of ophthalmology case reports*
  Kumar, A., Sun, Y. J., Rasmussen, D. K., Hargrave, A., Phillips, C., Vu, J. T., Costa, M. G., Leung, L. B., Yu, C., Dubra, A., Mahajan, V. B.
  2025; 38: 102312

- **Resolution of subretinal fluid in intractable central serous chorioretinopathy with high-dose intravitreal aflibercept.** *American journal of ophthalmology case reports*
  Lin, J. B., Leung, L. B.
  2025; 37: 102266

- **METformin for the MINimization of Geographic Atrophy Progression (METforMIN): A Randomized Trial.** *Ophthalmology science*
  Shen, L. L., Keenan, J. D., Chahal, N., Taha, A. T., Saroya, J., Ma, C. J., Sun, M., Yang, D., Psaras, C., Callander, J., Flaxel, C., Fawzi, A. A., Schlesinger, et al
  2024; 4 (3): 100440

- **Crystalline Hepatopathy Associated With Bietti Crystalline Dystrophy: A Striking Manifestation of Disordered Fatty Acid Metabolism.** *The American journal of surgical pathology*
  Dulken, B. W., Bahceci, D., Leung, L. S., Mahajan, V. B., Choi, W. T., Tan, S. Y.
  2024

- **Oculometric biomarkers of visuomotor deficits in clinically asymptomatic patients with systemic lupus erythematosus undergoing long-term hydroxychloroquine treatment.** *Frontiers in ophthalmology*
  Berneshawi, A. R., Seyedmadani, K., Goel, R., Anderson, M. R., Tyson, T. L., Akay, Y. M., Akay, M., Leung, L. B., Stone, L. S.
  2024; 4: 1354892

- **Incidence and associations of retinal detachment after Yttrium Aluminum Garnet (YAG) capsulotomy**
  Cheng, B., Hwang, B., Leung, L.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023

- **Patterns of Diagnostic Imaging for Stroke after Retinal Artery Occlusion**
  Hwang, B., Cheng, B. T., Leung, L.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023

- **Severe progression of pentosan maculopathy over a decade.** *American journal of ophthalmology case reports*
  Guo, L. Y., Mishra, K., Leung, L. B.
  2023; 30: 101826

- **METformin FOR the MINimization (METforMIN) of Geographic Atrophy Progression in Patients with Non-exudative Age-Related Macular Degeneration - A Randomized Trial**
  Shen, L., Keenan, J., Chahal, N., Taha, A., Saroya, J., Ma, C., Sun, H., Yang, D., Flaxel, C., Fawzi, A., Schlesinger, T., Wong, R., Leung, et al
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023

- **Electroretinographic findings in retinal vasculitis.** *The British journal of ophthalmology*
  Ghoraba, H. H., Matsumiya, W., Or, C., Khojasteh, H., Patel, P., Karaca, I., Regenold, J., Zaidi, M., Hwang, J., Lajevardi, S., Yavari, N., Than, N. T., Park, et al
  2022

- **C3 glomerulopathy associated with both hypertensive retinopathy and purtscher-like retinopathy.** *American journal of ophthalmology case reports*
  Zaidi, M., Mishra, K., Nguyen, H. V., Miller, P. P., Ghoraba, H., Karaca, I., Matsumiya, W., Nguyen, Q. D., Leung, L. B.
  2022; 27: 101683

- **Immunotherapy-induced retinopathy mimicking cancer associated retinopathy.** *American journal of ophthalmology case reports*
  Ghoraba, H., Or, C., Karaca, I., Mishra, K., Akhavanrezayat, A., Park, S., Than, N., Leung, L., Sanislo, S., Dong Nguyen, Q.
  2022; 26: 101449

- **Electroretinographic findings in retinal vasculitis**
  Ghoraba, H., Matsumiya, W., Patel, P., Or, C., Karaca, I., Regenold, J., Zaidi, M., Khojasteh, H., Hwang, J., Lajevardi, S., Yavari, N., Park, S., Akhavanrezayat, et al
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022

- **Correlated Changes in Retinal Thickness and Visuomotor Function in Asymptomatic Hydroxychloroquine Toxicity Patients**
  Leung, L., Hwang, B., Berneshawi, A., Goel, R., Tyson, T., Chang, R. T., Stone, L. S.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022

- **Macular Edema and Serous Macular Detachment after a Standard Dose of Intracameral Cefuroxime** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Davila, J. R., Mishra, K., Leung, L.
  2021; 52 (11): 615-618

- **Comparison of Telemedicine Screening of Diabetic Retinopathy by Mydriatic Smartphone-Based vs Nonmydriatic Tabletop Camera-Based Fundus Imaging.** *Journal of vitreoretinal diseases*
  Han, Y. S., Pathipati, M., Pan, C., Leung, L., Blumenkranz, M. S., Myung, D., Toy, B. C.
  2021; 5 (3): 199-207

- **Retinal Diseases that Can Masquerade as Neurological Causes of Vision Loss.** *Current neurology and neuroscience reports*
  Padungkiatsagul, T., Leung, L., Moss, H. E.
  2020; 20 (11): 51

- **Assessment of Eye Disease and Visual Impairment in the Nursing Home Population Using Mobile Health Technology** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Lai, K. Y., Pathipati, M. P., Blumenkranz, M. S., Leung, L., Moshfeghi, D. M., Toy, B. C., Myung, D.
  2020; 51 (5): 262–70

- **Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment** *BRITISH JOURNAL OF OPHTHALMOLOGY*
  Greven, M. A., Leng, T., Silva, R., Leung, L., Karth, P. A., Moshfeghi, D. M., Sanislo, S. R., Schachar, I. H.
  2019; 103 (10): 161–64

- **Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment.** *The British journal of ophthalmology*
  Greven, M. A., Leng, T., Silva, R. A., Leung, L. B., Karth, P. A., Moshfeghi, D. M., Sanislo, S. R., Schachar, I. H.
  2018

- **Progressive Reductions in Acuity Occur even within the First Three Days After a Macula-Off Retinal Detachment**
  Greven, M., Leng, T., Leung, L., Moshfeghi, D. M., Sanislo, S., Silva, R., Schachar, I.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018

- **Photodynamic Therapy-Induced Macular Hole** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Greven, M. A., Leung, L. B.
  2018; 49 (4): 270–72

- **Comparison of Pneumatic Retinopexy and Scleral Buckle for Primary Rhegmatogenous Retinal Detachment Repair** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Paulus, Y. M., Leung, L., Pilyugina, S., Blumenkranz, M. S.
  2017; 48 (11): 887–93

- **Rapid Onset of Retinal Toxicity From High-Dose Hydroxychloroquine Given for Cancer Therapy.** *American journal of ophthalmology*
  Leung, L. B., Neal, J. W., Wakelee, H. A., Sequist, L. V., Marmor, M. F.

2015; 160 (4): 799-805 e1

- **Rapid Onset of Retinal Toxicity From High-Dose Hydroxychloroquine Given for Cancer Therapy.** *American journal of ophthalmology*
  Leung, L. B., Neal, J. W., Wakelee, H. A., Sequist, L. V., Marmor, M. F.
  2015; 160 (4): 799-805 e1

- **Restoration of Retinal Structure and Function after Selective Photocoagulation** *JOURNAL OF NEUROSCIENCE*
  Sher, A., Jones, B. W., Huie, P., Paulus, Y. M., Lavinsky, D., Leung, L. S., Nomoto, H., Beier, C., Marc, R. E., Palanker, D.
  2013; 33 (16): 6800-6808

- **EFFECT OF INTRAVITREAL TRIAMCINOLONE ACETONIDE ON HEALING OF RETINAL PHOTOCOAGULATION LESIONS** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Nomoto, H., Lavinsky, D., Paulus, Y. M., Leung, L., Dalal, R., Blumenkranz, M. S., Palanker, D.
  2013; 33 (1): 63-70

- **Therapeutic Window of Retinal Photocoagulation With Green (532-nm) and Yellow (577-nm) Lasers** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO)*
  Sramek, C. K., Leung, L. B., Paulus, Y. M., Palanker, D. V.
  SLACK INC.2012: 341–47

- **Macular infarction following intravitreal bevacizumab for treatment of central retinal vein occlusion.** *Ophthalmic surgery, lasers & imaging : the official journal of the International Society for Imaging in the Eye*
  Leung, L. B., Silva, R. A., Blumenkranz, M. S., Flynn, H. W., Sanislo, S. R.
  2012; 43: e73-9

- **Non-damaging Retinal Phototherapy: Dynamic Range of Heat Shock Protein Expression** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
  Sramek, C., Mackanos, M., Spitler, R., Leung, L., Nomoto, H., Contag, C. H., Palanker, D.
  2011; 52 (3): 1780-1787

- **SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Paulus, Y. M., Jain, A., Nomoto, H., Sramek, C., Gariano, R. F., Andersen, D., Schuele, G., Leung, L., Leng, T., Palanker, D.
  2011; 31 (2): 380-388

- **Improving the therapeutic window of retinal photocoagulation by spatial and temporal modulation of the laser beam** *JOURNAL OF BIOMEDICAL OPTICS*
  Sramek, C., Leung, L., Leng, T., Brown, J., Paulus, Y. M., Schuele, G., Palanker, D.
  2011; 16 (2)

- **Critical appraisal of the clinical utility of the dexamethasone intravitreal implant (Ozurdex) for the treatment of macular edema related to branch retinal vein occlusion or central retinal vein occlusion.** *Clinical ophthalmology (Auckland, N.Z.)*
  Chan, A., Leung, L., Blumenkranz, M. S.
  2011; 5: 1043-1049

- **Adult Orbital Langerhans Cell Histiocytosis With Frontal Bone Involvement** *OPHTHALMIC PLASTIC AND RECONSTRUCTIVE SURGERY*
  Sokol, J. A., Kazim, M., Kelly, K. A., Lantos, G., Leung, L., Baron, E.
  2009; 25 (2): 157-158

- **Recent trends in the management of rhegmatogenous retinal detachment** *SURVEY OF OPHTHALMOLOGY*
  Sodhi, A., Leung, L., Do, D. V., Gower, E. W., Schein, O. D., Handa, J. T.
  2008; 53 (1): 50-67

- **A novel mutation in intron 11 of the COL2A1 gene in a patient with Type 1 Stickler syndrome** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Leung, L., Hyland, J. C., Young, A., Goldberg, M. F., Handa, J. T.
  2006; 26 (1): 106-109