



Chase A. Ludwig, MD, MS

Assistant Professor of Ophthalmology (Research/Clinical Trials)

CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

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Bio

BIO

Chase A. Ludwig, MD, MS is a vitreoretinal surgeon and clinician-scientist focused on improving outcomes for patients with high and pathologic myopia. His work integrates surgical expertise with artificial intelligence and large-scale clinical data to develop practical tools that predict risk, guide treatment, and prevent myopia-related vision loss.

Dr. Ludwig's research centers on translating data-driven insights into surgical and preventive strategies for retinal detachment, myopic traction maculopathy, and myopic macular degeneration. By combining multimodal imaging, real-world data, and computational modeling, his lab aims to better understand disease mechanisms and design interventions that can be applied directly in clinical practice.

Dr. Ludwig specializes in the management of complex vitreoretinal diseases, with a particular focus on:

- Retinal tears and detachments caused by high myopia
- Myopic macular degeneration and myopic traction maculopathy
- Complex macular holes, especially those related to myopia
- Epiretinal membranes (macular pucker), dislocated lenses, trauma, and proliferative vitreoretinopathy

His surgical expertise includes repairing highly complex retinal detachments, treating advanced macular pathology, and restoring vision in cases that demand precision, innovation, and a deep understanding of myopic disease processes.

Dr. Ludwig currently serves as a Vitreoretinal Surgeon and Assistant Professor in Ophthalmology at the Byers Eye Institute, Department of Ophthalmology, at Stanford University School of Medicine. He graduated summa cum laude from Duke University with a degree in Biology before completing medical school and residency at Stanford University, where he earned induction into the Alpha Omega Alpha Honor Medical Society and numerous research awards, including the prestigious Heed Fellowship. He further honed his expertise during a 2-year vitreoretinal surgery fellowship at Massachusetts Eye and Ear at Harvard Medical School, receiving both the Ronald G. Michels Fellowship Foundation Award for outstanding fellows and Harvard's Thomas J. Madden Fellowship in Retina.

Committed to patient-centered care and surgical education, Dr. Ludwig mentors future vitreoretinal surgeons while advancing practical innovations in myopia management. His work emphasizes collaboration, data-driven decision-making, and precision surgery to reduce the global burden of myopic retinal disease.

CLINICAL FOCUS

- Retina Specialist

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Ophthalmology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Ophthalmology Liason, LGBTQ+ Health Program, (2023- present)

HONORS AND AWARDS

- International Society of Ocular Oncology Travel Grant, Knights Templar Eye Foundation (2026)
- McCormick Faculty Award, Office of Faculty Development and Diversity (2025 - 2026)
- Honor Award, American Society of Retina Specialists (2024)
- K23 NEI Career Development Award, National Institutes of Health (2024 - 2029)
- E. Matilda Ziegler Foundation Award, E. Matilda Ziegler Foundation for the Blind (2023 - 2024)
- K12 Institutional Career Development Award, National Institutes of Health (2022 - 2024)
- Thomas J. Madden Fellowship in Retina, Harvard University, Massachusetts Eye and Ear (2022)
- Ronald G. Michels Fellowship Foundation Award, Ronald G. Michels Fellowship Foundation (2021)
- Heed Fellowship, Society of Heed Fellows (2020)
- Marmor-Blumenkranz Ophthalmology Residents Research Prize, Stanford University, Byers Eye Institute (2019, 2020)
- Association for Research in Vision and Ophthalmology (ARVO) Travel Grant, National Eye Institute (2018)
- GME Research Day Award, Best in Show, California Pacific Medical Center (2017)
- Spectrum/TL1 Clinical Research Training Program, National Institutes of Health (2015)
- Scholarship, Duke University Bassett Society (2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Vit-Buckle Society (2023 - present)
- Member, The American Society of Retina Specialists (2023 - present)
- Member, Retina World Congress (2023 - present)
- Member, International Myopia Institute (2020 - present)
- Member, Alpha Omega Alpha Honor Medical Society (2019 - present)
- Member, Women in Ophthalmology (2018 - present)
- Member, American Academy of Ophthalmology (2017 - present)
- Member, Association for Research in Vision and Ophthalmology (2015 - present)
- Member, Phi Beta Kappa Society (2009 - present)

PROFESSIONAL EDUCATION

- Master's Degree, Stanford University School of Medicine , Biomedical Data Science; Artificial Intelligence and Computer Vision (2025)
- Fellowship, Harvard University, Massachusetts Eye and Ear , Vitreoretinal Surgery (2022)
- Board Certification: Ophthalmology, American Board of Ophthalmology (2021)
- Residency, Stanford University, Byers Eye Institute , Ophthalmology (2020)
- Internship, California Pacific Medical Center , Internal Medicine (2017)
- Master's Degree, Stanford University School of Medicine , Epidemiology and Clinical Research (2016)
- Medical Education, Stanford University School of Medicine , Health Services and Policy Research; Neuroscience, Behavior & Cognition (2016)
- Bachelor of Science, Duke University , Biology, Religion, and Neuroscience (2011)

COMMUNITY AND INTERNATIONAL WORK

- <http://www.healyxlabs.com/>

LINKS

- Healyx Lab: Community Work: <https://www.healyxlabs.com/>
- LinkedIn: <https://www.linkedin.com/in/caludwig/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on understanding high and pathologic myopia and their retinal sequelae, including retinal detachments, myopic traction maculopathy, and myopic macular degeneration. By leveraging informatics and big data analytics, I aim to uncover strategies that prevent and treat the progression of these complex and devastating conditions. My work takes advantage of the retina's unique role as the only visible portion of the central nervous system, allowing for discoveries in ophthalmology that have the potential to impact broader fields of medicine.

I am actively seeking medical students and residents interested in ophthalmology or vitreoretinal surgery to assist with writing projects and data analytics. If you are passionate about advancing the understanding and management of myopia, I invite you to join me in tackling one of the most pressing global challenges in eye care.

Publications

PUBLICATIONS

- **Shaping the future of myopia: artificial intelligence for vitreoretinal complications of high and pathologic myopia.** *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie*
Mesfin, Y., Salvi, A., Arnal, L., Langlotz, C., Mahajan, V., Ludwig, C. A.
2026
- **A multimodal retinal aging clock for biological age prediction and systemic health assessment via OCT and fundus imaging.** *Scientific reports*
Ludwig, C. A., Salvi, A., Mesfin, Y., Arnal, L., Langlotz, C., Mahajan, V.
2026
- **Beyond refractive error: myopia's exponential burden on retinal health with each diopter.** *International journal of retina and vitreous*
Arnal, L., Mesfin, Y., Xu, C., Salvi, A., Mishra, K., Ludwig, C. A.
2025; 11 (1): 121
- **Deep Learning Algorithm Prognosticating Retinal Tears and Detachments From Optical Coherence Tomography.** *Translational vision science & technology*

- Salvi, A., Mesfin, Y., Arnal, L., Langlotz, C., Mahajan, V., Ludwig, C. A.
2025; 14 (11): 18
- **Social determinants of health in high and pathologic myopia screening.** *Eye (London, England)*
Arnal, L., Salvi, A., Thomas, M., Ludwig, C. A.
2024
 - **Ocular Biometry OCR: a machine learning algorithm leveraging optical character recognition to extract intra ocular lens biometry measurements.** *Frontiers in artificial intelligence*
Salvi, A., Arnal, L., Ly, K., Ferreira, G., Wang, S. Y., Langlotz, C., Mahajan, V., Ludwig, C. A.
2024; 7: 1428716
 - **Epidemiology of rhegmatogenous retinal detachment in commercially insured myopes in the United States.** *Scientific reports*
Ludwig, C. A., Vail, D., Al-Moujahed, A., Callaway, N. F., Saroj, N., Moshfeghi, A., Moshfeghi, D. M.
2023; 13 (1): 9430
 - **Prevalence and incidence of mental health disorders in patients with inherited retinal diseases: a population-based study.** *Journal of AAPOS : the official publication of the American Association for Pediatric Ophthalmology and Strabismus*
Yuan, M., Alsoudi, A., Nangia, P., Guo, L., Al-Moujahed, A., Ludwig, C. A., Wai, K. M., Mruthyunjaya, P., Rahimy, E.
2026: 104860
 - **Association Between Mental Health Disorders in Age-Related Macular Degeneration: A Cohort Study Using a Global Health Records Network.** *Ophthalmic surgery, lasers & imaging retina*
Xiao, J., Yavari, N., Nimmagadda, H., Mruthyunjaya, P., Rahimy, E., Smith, S. J., Ludwig, C. A., Koo, E., Wai, K. M.
2026; 57 (5): 301-308
 - **The Role of Systemic Methotrexate on Preventing Proliferative Vitreoretinopathy Following Retinal Detachment Repair.** *Ophthalmic surgery, lasers & imaging retina*
Yavari, N., Alsoudi, A. F., Wai, K. M., Koo, E., Ludwig, C. A., Kessler, A. L., Mruthyunjaya, P., Rahimy, E.
2026; 57 (5): 320-326
 - **Xanthelasma and its association with developing major cardio-cerebrovascular events.** *Atherosclerosis*
Yavari, N., Wai, K. M., Alsoudi, A. F., Koo, E., Ludwig, C. A., Kessler, A. L., Mruthyunjaya, P., Rahimy, E.
2026; 416: 120647
 - **Survival Rates After Pars Plana Vitrectomy for Proliferative Diabetic Retinopathy.** *Journal of vitreoretinal diseases*
Chung, M. E., Pan, C. K., Smith, S. J., Greven, M. A., Koo, E., Ludwig, C. A., Rahimy, E., Mruthyunjaya, P., Wai, K. M.
2026: 24741264261432178
 - **Prevalence of Systemic Comorbidities and Ocular Complications in Patients With Bilateral Retinal Telangiectasia.** *Journal of vitreoretinal diseases*
Zhao, C. S., Do, D. V., Sanislo, S. R., Ludwig, C., Rahimy, E., Mruthyunjaya, P., Wai, K. M.
2026: 24741264261423313
 - **Risk of diabetic retinopathy progression after YAG laser capsulotomy.** *Journal of cataract and refractive surgery*
Alshaihsalama, A. M., Mansoor, B. S., Zaidi, Z., Alsoudi, A., Loya, A., Wai, K., Koo, E., Ludwig, C., Mruthyunjaya, P., Rahimy, E.
2026; 52 (3): 282-288
 - **Risk of Retinal Redetachment After Cataract Surgery Following Retinal Detachment Repair in Myopic and Highly Myopic Eyes.** *Journal of vitreoretinal diseases*
Mesfin, Y., Arnal, L., Salvi, A., Wai, K. M., Brodie, F., Koo, E., Kessler, A. L., Koo, E., Rahimy, E., Mruthyunjaya, P., Ludwig, C. A.
2026: 24741264261418517
 - **Risk of mental health disorders following traumatic ocular and orbital injury.** *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie*
Elaraby, O., Yuan, M., Rahimy, E., Koo, E., Ludwig, C. A., Mruthyunjaya, P., Wai, K. M.
2026
 - **The Risk of Retinal Breaks or Detachment in Fellow Eye with Lattice Degeneration after Primary Rhegmatogenous Retinal Detachment.** *Retina (Philadelphia, Pa.)*
Arnal, L., Mesfin, Y., Salvi, A., Wai, K. M., Rahimy, E., Mruthyunjaya, P., Ludwig, C. A.

2026

- **Ocular and Orbital Trauma Correlated With an Increased Risk of Mortality in Female Patients With a History of Intimate Partner Violence** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
Amarikwa, L., Renner, L. M., Wai, K. M., Homer, N. A., Ludwig, C. A., Koo, E., Rahimy, E., Mruthyunjaya, P., Shriver, E. M., Kossler, A. L.
2026; 282: 502-503
- **Ocular adverse effects of bisphosphonates and association with osteonecrosis from a real-world database.** *Eye (London, England)*
Kim, S. H., Rahimy, E., Koo, E. B., Ludwig, C. A., Kossler, A. L., Mruthyunjaya, P., Wai, K. M.
2025
- **Corticosteroids Versus Teprotumumab for the Treatment of Thyroid Eye Disease. Does Either Mitigate the Need for Additional Treatments?** *Thyroid : official journal of the American Thyroid Association*
Choi, S., Shah, S. V., Chandraparnik, P., Wai, K. M., Rahimy, E., Koo, E., Ludwig, C. A., Pakdel, F., Dosiou, C., Mruthyunjaya, P., Kossler, A. L.
2025
- **Reply to Comment on Ocular and Orbital Trauma Correlated With an Increased Risk of Mortality in Female Patients With a History of Intimate Partner Violence.** *American journal of ophthalmology*
Amarikwa, L., Renner, L. M., Homer, N. A., Wai, K. M., Ludwig, C. A., Koo, E., Rahimy, E., Mruthyunjaya, P., Shriver, E. M., Kossler, A. L.
2025
- **The Association Between the Retinal Sequelae of Myopia and Glaucoma in a Global Cohort.** *Clinical ophthalmology (Auckland, N.Z.)*
Arnal, L. I., Mesfin, Y., Ferreira, G., Salvi, A., Wai, K. M., Koo, E., Kossler, A. L., Koo, E., Rahimy, E., Mruthyunjaya, P., Ludwig, C. A.
2025; 19: 3749-3760
- **Exogenous Testosterone Use Increases the Risk of Central Serous Chorioretinopathy.** *American journal of ophthalmology*
Roig, E. M., Arnal, L., Salvi, A., Mesfin, Y., Wai, K. M., Koo, E., Kossler, A., Koo, E., Rahimy, E., Mruthyunjaya, P., Ludwig, C. A., Hua, H. U.
2025
- **Ocular and Orbital Trauma Correlated with an Increased Risk of Mortality in Female Patients with a History of Intimate Partner Violence.** *American journal of ophthalmology*
Amarikwa, L., Renner, L. M., Homer, N. A., Wai, K. M., Ludwig, C. A., Koo, E., Rahimy, E., Mruthyunjaya, P., Shriver, E. M., Kossler, A. L.
2025
- **Time to incident ocular and extraintestinal manifestation in HLA-B27-Associated diseases: a comparative study of immunotherapies.** *Clinical rheumatology*
Yavari, N., Wai, K. M., Alsoudi, A. F., Koo, E., Ludwig, C. A., Kossler, A. L., Nguyen, Q. D., Mruthyunjaya, P., Rahimy, E.
2025
- **Enhanced Phenotype Identification of Common Ocular Diseases in Real-World Datasets** *OPHTHALMOLOGY SCIENCE*
Stein, J. D., An, H., Andrews, C. A., Pershing, S., Mungle, T., Bicket, A. K., Rosenthal, J. M., Zhang, A. D., Lee, W., Ludwig, C., Mekonnen, B., Hernandez-Boussard, T., SOURCE Consortium
2025; 5 (4)
- **Ensemble learning to enhance accurate identification of patients with glaucoma using electronic health records.** *JAMIA open*
Mungle, T., Naderalvojud, B., Andrews, C. A., An, H. S., Bicket, A., Zhang, A., Rosenthal, J., Lee, W. S., Ludwig, C. A., Mekonnen, B., Pershing, S., Stein, J. D., Hernandez-Boussard, et al
2025; 8 (4): ooaf080
- **Risk of developing thyroid eye disease in patients with thyroid dysfunction that received a COVID-19 vaccination.** *Canadian journal of ophthalmology. Journal canadien d'ophtalmologie*
Amarikwa, L., Chandraparnik, P., Wai, K. M., Rahimy, E., Kinde, B., Koo, E., Ludwig, C. A., Dosiou, C., Mruthyunjaya, P., Kossler, A. L.
2025
- **Long-Term Cannabis Use and Risk of Postoperative Proliferative Vitreoretinopathy.** *JAMA ophthalmology*
Alshaihsalama, A. M., Alsoudi, A. F., Mukhtar, A., Wai, K., Koo, E., Kossler, A., Ludwig, C., Mruthyunjaya, P., Rahimy, E.
2025
- **The Impact of Myopia on the Risk of Retinal Re-Detachment After Cataract Surgery**
Mesfin, Y., Arnal, L., Salvi, A., Wai, K., Brodie, F., Koo, E., Kossler, A., Koo, E., Rahimy, E., Mruthyunjaya, P., Ludwig, C.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025

- **Ocular Adverse Events Associated with Dupilumab: Analysis from a Real-World Database**
Elaraby, O., Wai, K., Nguyen, Q., Ludwig, C. A., Koo, E., Mruthyunjaya, P., Rahimy, E.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Large Language Models Using Free Text Clinical Notes Outperform ICD Coding in Identifying Patients With and Without Glaucoma**
Mungle, T., Andrews, C. A., Pershing, S., Rice, B., Wang, S. Y., Pillai, M., Bicket, A. K., Rosenthal, J. M., Zhang, A. D., Le, W., Ludwig, C. A., Mekonnen, B., Hernandez-Boussard, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Association of Mental Health Disorders with Age-related Macular Degeneration**
Xiao, J., Nimmagadda, H., Mruthyunjaya, P., Rahimy, E., Ludwig, C. A., Koo, E., Wai, K.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Cardiovascular Morbidity and Mortality After Amaurosis Fugax.** *JAMA ophthalmology*
Wai, K. M., Loube, D. K., Pham, N. H., Ludwig, C. A., Koo, E., Mruthyunjaya, P., Rahimy, E.
2025
- **Enhanced Phenotype Identification of Common Ocular Diseases in Real-World Datasets.** *Ophthalmology science*
Stein, J. D., An, H. S., Andrews, C. A., Pershing, S., Mungle, T., Bicket, A. K., Rosenthal, J. M., Zhang, A. D., Lee, W. S., Ludwig, C., Mekonnen, B., Hernandez-Boussard, T.
2025; 5 (4): 100717
- **Evolution of the Treatment of Retinal Vein Occlusions: A Review of Key Clinical Trials** *Retinal Vein Occlusion: Pathophysiology, Complications, and Management*
Moon, J. A., Zubair, T., Ludwig, C. A.
Nova Science Publishers.2025; 1: 101-128
- **Reply to Comment on Ophthalmic Immune-Related Adverse Events and Association with Survival: Results from a Real-World Database.** *American journal of ophthalmology*
Quiruz, L., Yavari, N., Kikani, B., Gupta, A. S., Wai, K. M., Kossler, A. L., Ludwig, C., Koo, E. B., Rahimy, E., Mruthyunjaya, P.
2024
- **Risk of Intestinal Complications, Extraintestinal Morbidity, and Mortality in Patients with Crohn's Disease and Ocular Involvement.** *Ocular immunology and inflammation*
Alsoudi, A. F., Wai, K. M., Koo, E., McConnell, R. A., Pham, N. H., Do, B. K., Ludwig, C. A., Kossler, A. L., Mruthyunjaya, P., Rahimy, E.
2024: 1-8
- **A 52-year-old man from Somalia with an asymptomatic macular hemorrhage.** *Retinal cases & brief reports*
Yuan, M., Ludwig, C. A., Bleicher, I., Hoyek, S., Elliott, D., Sobrin, L., Patel, N.
2024
- **Ophthalmic Immune-Related Adverse Events and Association with Survival: Results from a Real-World Database.** *American journal of ophthalmology*
Quiruz, L., Yavari, N., Kikani, B., Gupta, A. S., Wai, K. M., Kossler, A. L., Ludwig, C., Koo, E. B., Rahimy, E., Mruthyunjaya, P.
2024
- **Reply to comment on: Impact of GLP-1 Agonists and SGLT-2 Inhibitors on Diabetic Retinopathy Progression: An Aggregated Electronic Health Record Data Study.** *American journal of ophthalmology*
Wai, K. M., Mishra, K., Koo, E., Ludwig, C. A., Parikh, R., Mruthyunjaya, P., Rahimy, E.
2024
- **Impact of Obstructive Sleep Apnea on Diabetic Retinopathy Progression and Systemic Complications.** *American journal of ophthalmology*
Rahimy, E., Koo, E. B., Wai, K. M., Ludwig, C. A., Kossler, A. L., Mruthyunjaya, P.
2024
- **Comparison of Ergonomics in Vitreoretinal Surgery With Heads-up Visualization Versus the Standard Operating Microscope as Measured by a Wearable Device** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Moon, J. Y., Seddon, I., Sokol, J. T., Zeng, R., Ludwig, C. A., Wu, F., Rahimy, E., Houston, S. K., Miller, J. B.
2024: 1-8

- **Democratizing Health Care in the Metaverse: How Video Games can Monitor Eye Conditions Using the Vision Performance Index: A Pilot Study.** *Ophthalmology science*
Ahmed, Y., Reddy, M., Mederos, J., McDermott, K. C., Varma, D. K., Ludwig, C. A., Ahmed, I. K., Khaderi, K. R.
2024; 4 (1): 100349
- **ENHANCED PHENOTYPE IDENTIFICATION OF COMMON OCULAR DISEASES IN REAL-WORLD DATASETS**
Stein, J. D., An, H., Andrews, C., Pershing, S., Mungle, T., Bicket, A., Rosenthal, J. M., Zhang, A., Lee, W., Ludwig, C., Mekonnen, B., Hernandez-Boussard, T.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Visual Outcomes of Optic Disc Drusen and Structural Changes in Optic Nerve Head**
Gong, X., Pugazhendhi, S., Zhu, P., Ludwig, C., Wang, S., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Impact of GLP-1 Agonists and SGLT-2 Inhibitors on Diabetic Retinopathy Progression: An Aggregated Electronic Health Record Data Study.** *American journal of ophthalmology*
Wai, K. M., Mishra, K., Koo, E., Ludwig, C. A., Parikh, R., Mruthyunjaya, P., Rahimy, E.
2024
- **Limitations of Assessing Barriers in Diabetic Retinopathy Screening-Reply.** *JAMA ophthalmology*
Wang, S. Y., Ludwig, C. A., Ravindranath, R.
2024
- **Characterizing Macular Neovascularization in Myopic Macular Degeneration and Age-Related Macular Degeneration Using Swept Source OCTA.** *Clinical ophthalmology (Auckland, N.Z.)*
Sayah, D. N., Garg, I., Katz, R., Zhu, Y., Cui, Y., Zeng, R., Tandias, R., Moon, J. Y., Vingopoulos, F., Wescott, H. E., Baldwin, G., Wang, K., Elze, et al
2023; 17: 3855-3866
- **Social Determinants of Health and Perceived Barriers to Care in Diabetic Retinopathy Screening.** *JAMA ophthalmology*
Ravindranath, R., Bernstein, I. A., Fernandez, K. S., Ludwig, C. A., Wang, S. Y.
2023
- **Risk of Stroke, Myocardial Infarction, and Death After Retinal Artery Occlusion.** *JAMA ophthalmology*
Wai, K. M., Knapp, A., Ludwig, C. A., Koo, E., Parikh, R., Rahimy, E., Mruthyunjaya, P.
2023
- **Risk of Stroke, Myocardial Infarction, Deep Vein Thrombosis, Pulmonary Embolism, and Death after Retinal Vein Occlusion.** *American journal of ophthalmology*
Wai, K. M., Ludwig, C. A., Koo, E., Parikh, R., Mruthyunjaya, P., Rahimy, E.
2023
- **Comparison of Ophthalmologist and Large Language Model Chatbot Responses to Online Patient Eye Care Questions.** *JAMA network open*
Bernstein, I. A., Zhang, Y. V., Govil, D., Majid, I., Chang, R. T., Sun, Y., Shue, A., Chou, J. C., Schehlein, E., Christopher, K. L., Groth, S. L., Ludwig, C., Wang, et al
2023; 6 (8): e2330320
- **Unpredictability of Axial Elongation in Infants undergoing Cataract Surgery**
Abrant, A., Oke, I., McClatchey, S., Mruthyunjaya, P., Moshfeghi, D. M., Ludwig, C., Lambert, S. R.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Effect of Next Generation Oral Hypoglycemic Agents on Diabetic Retinopathy Progression: A National Cohort Study**
Wai, K., Ahluwalia, A., Abrant, A., Ludwig, C., Parikh, R., Mruthyunjaya, P., Rahimy, E.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Ischemic optic neuropathy with and without optic disc drusen**
Gong, X., Pugazhendhi, S., Zhu, P., Ludwig, C., Wang, S., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Biometric Variations in High Myopia Associated with Different Underlying Ocular and Genetic Conditions.** *Ophthalmology science*
Ghoraba, H. H., Ludwig, C. A., Moshfeghi, D. M.

2023; 3 (1): 100236

- **Sudden monocular vision loss after sneezing as captured on widefield swept source optical coherence tomography-angiography.** *Retinal cases & brief reports*
Moon, J. Y., Garg, I., Miller, J. B., Ludwig, C. A.
2022
- **Trends in Leadership and Award Recognition Among Women in the American Society of Retina Specialists** *JOURNAL OF VITREORETINAL DISEASES*
Reeves, M. R., Pasricha, M., Ludwig, C. A., Chandramohan, A., Azad, A. D., Li, A. S., Rosenblatt, T. R., Sears, C., Kossler, A. L., Do, D., Pan, C. K.
2022; 6 (5): 374-380
- **Trends in Leadership and Award Recognition Among Women in the American Society of Retina Specialists.** *Journal of vitreoretinal diseases*
Reeves, M. R., Pasricha, M. V., Ludwig, C. A., Chandramohan, A., Azad, A. D., Li, A. S., Rosenblatt, T. R., Sears, C. M., Kossler, A. L., Do, D. V., Pan, C. K.
2022; 6 (5): 374-380
- **Representation of Women in Ophthalmology Subspecialty Societies over 20** *OPHTHALMOLOGY*
Azad, A. D., Chandramohan, A., Li, A. S., Rosenblatt, T. R., Reeves, M. R., Veerappan-Pasricha, M., Ludwig, C. A., Nguyen, A., Wings, K. M., Wang, S. Y., Pan, C. K., Moss, H. E., Do, et al
2022; 129 (5): 587-590
- **The Utility of Universal Newborn Eye Screening: A Review.** *Ophthalmic surgery, lasers & imaging retina*
Azad, A. D., Al-Moujahed, A., Ludwig, C. A., Vail, D., Callaway, N. F., Rosenblatt, T. R., Kumm, J., Moshfeghi, D. M.
2021; 52 (S2): S6-S16
- **Ocular Penetrance and Safety of the Dopaminergic Prodrug Etilevodopa.** *Translational vision science & technology*
Gao, Q., Ludwig, C. A., Smith, S. J., Schachar, I. H.
2021; 10 (12): 5
- **Fall risk in patients with pseudophakic monovision.** *Canadian journal of ophthalmology. Journal canadien d'ophtalmologie*
Rosenblatt, T. R., Vail, D., Ludwig, C. A., Al-Moujahed, A., Pasricha, M. V., Ji, M. H., Callaway, N. F., Moshfeghi, D. M.
2021
- **Comparison between wide-field digital imaging system and the red reflex test for universal newborn eye screening in Brazil.** *Acta ophthalmologica*
da Cunha, L. P., Cavalcante Costa, M. A., de Miranda, H. A., Reis Guimaraes, J., Aihara, T., Ludwig, C. A., Rosenblatt, T., Callaway, N. F., Pasricha, M., Al-Moujahed, A., Vail, D., Ji, M. H., Kumm, et al
2021
- **Differences in anterior peripheral pathologic myopia and macular pathologic myopia by age and gender.** *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie*
Ludwig, C. A., Boucher, N., Saroj, N., Moshfeghi, D. M.
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