



Melissa Yuan

- Clinical Instructor, Ophthalmology
- Fellow in Ophthalmology

Bio

INSTITUTE AFFILIATIONS

- Clinical Instructor, Ophthalmology

Publications

PUBLICATIONS

- **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
- **Cost Analysis of Risk-Stratified Retinopathy of Prematurity Screening** *OPHTHALMOLOGY RETINA*
Hwang, H. H., Piccini, A., Abidi, M., Altamirano, F., Hu, D., Hoyek, S., Chaaya, C., Yuan, M., Golnouch, M., Berrocal, A. M., Gonzalez, E., Gise, R., Vanderveen, et al
2026; 10 (5): 575-579
- **Real-world outcomes of retinopathy of prematurity treated with primary laser versus primary anti-vascular endothelial growth factor and deferred laser.** *Journal of AAPOS : the official publication of the American Association for Pediatric Ophthalmology and Strabismus*
Yuan, M., Hu, D., Altamirano, F., Hoyek, S., Chaaya, C., Abidi, M., De Bruyn, H., Fulton, A., Mantagos, I. S., Wu, C., Gonzalez, E., VanderVeen, D. K., Patel, et al
2026: 104848
- **Asymmetric vs Symmetric Treatment in Retinopathy of Prematurity.** *Ophthalmology*
Altamirano, F., Hoyek, S., Yuan, M., Chaaya, C., Zhang, S., Zheng, W., Mantagos, I. S., Wu, C., Gonzalez, E., VanderVeen, D. K., Patel, N. A., Gise, R.
2026
- **Association between Retinal Vein Occlusion and Epiretinal Membrane Development.** *American journal of ophthalmology*
Almosa, A., Alshaihsalama, A. M., Abdi, A., Alsoudi, A. F., Yuan, M., Loya, A., Rahimy, E., Mahmoud, T. H.
2026
- **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
- **Severe Posterior Retinopathy of Prematurity: A Matched Cohort Analysis.** *Ophthalmology. Retina*
Chaaya, C., Yuan, M., Altamirano, F., Kahale, F., Alahmadi, R., Hu, D., Abidi, M., Hoyek, S., Fulton, A., Mantagos, I. S., Wu, C., Gonzalez, E., VanderVeen, et al
2026
- **Cost Analysis of Risk Stratified Retinopathy of Prematurity Screening.** *Ophthalmology. Retina*

- Hwang, H. H., Piccini, A., Abidi, M., Altamirano, F., Hu, D., Hoyek, S., Chaaya, C., Yuan, M., Mahmoudinezhad, G., Berrocal, A., Gonzalez, E., Gise, R., Vanderveen, et al
2025
- **Systemic medications and their impact on age-related macular degeneration development and progression: a review of current evidence.** *Current opinion in ophthalmology*
Yuan, M., Alsoudi, A., Alshaikhsalama, A., Rahimy, E.
2025
 - **Retinopathy of Prematurity in the Extremely Premature: Disease Burden, Treatment Approaches, and Visual Outcomes in Micro- and Nano-Premature Infants.** *American journal of ophthalmology*
Yuan, M., Chaaya, C., Altamirano, F., Hu, D., Hoyek, S., Abidi, M., De Bruyn, H., Fulton, A., Mantagos, I. S., Wu, C., Gonzalez, E., VanderVeen, D. K., Patel, et al
2025
 - **Immune Recovery Uveitis: A Comprehensive Review.** *International ophthalmology clinics*
Yuan, M., Young, L. H.
2025; 65 (3): 142-151
 - **Opsoclonus in Children: Diagnosis, Etiology, and Ophthalmologic Assessment of Patients at a Tertiary Children's Hospital.** *Pediatric neurology*
Yuan, M., Jeon-Chapman, J., Estrela, T., Gise, R.
2025; 170: 74-79
 - **Cost Savings of the "TWO-ROP" Algorithm based on a Validation Study**
Hwang, H., Lamarque, F., Hu, D., Mahmoudinezhad, G., Alhoyek, S., Chaaya, C., Yuan, M., Berrocal, A., Gonzalez, E., Gise, R., Vanderveen, D., Patel, N. A.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
 - **Opsoclonus in Children: Diagnosis, Etiology and Ophthalmologic Assessment of Patients at a Tertiary Children's Hospital** *JOURNAL OF PEDIATRIC NEUROLOGY*
Yuan, M., Jeon-Chapman, J., Estrela, T., Gise, R.
2025; 23 (3)
 - **Attrition of Retinal Ganglion Cell Complex Following Non-Arteritic Anterior Ischemic Optic Neuropathy (NAION): A Disparity in the Structure-Function Relationship**
Anvarinia, Y., Krasniqi, D., Shah, M., Yuan, M., Zhang, K., Elze, T., Rizzo, J. F.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
 - **Evaluating the Utility of Initial Examinations in Retinopathy of Prematurity <i>Proposal of FIRST</i>-<i>ROP Algorithm for a</i><i>Medium</i>-<i>Risk Cohort</i>** *OPHTHALMOLOGY*
Altamirano, F., Yuan, M., Hoyek, S., Hu, D., Abidi, M., Chaaya, C., De Bruyn, H., Fulton, A., Mantagos, I. S., Wu, C., Gise, R., Gonzalez, E., Vanderveen, et al
2025; 132 (6): 713-717
 - **Longitudinal Assessment of the Impact of GLP-1 Receptor Agonists On Retinal Microvasculature: An OCTA-Based Retrospective Study**
Shah, S., Ding, X., Hou, N., Nodecker, K., Ploumi, I., Velcani, F., Wang, L., Gumustop, S., Chen, C., Zhu, Y., Ganesan, O., Lu, E. S., Yuan, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
 - **Evaluation of Systemic Diagnostics, Management Strategies and Outcomes in Admitted vs. Non-Admitted Patients with Central Retinal Artery Occlusion**
Zhang, J., Alhoyek, S., Bagheri, S., Yuan, M., Meshkin, R., Chaaya, C., Miller, J. B., Zacks, D. N., Miller, J. W., Vavvas, D. G., Patel, N. A.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
 - **Clinical Characteristics, Outcomes, and Complications Associated With Delayed Diagnosis of Intraocular Foreign Body.** *Journal of vitreoretinal diseases*
Yuan, M., Kozek, L. K., Hoyek, S., Davila, J., Kim, L., Vingopoulos, F., Gong, D., Young, L., Wu, F., Armstrong, G., Elliott, D., Breazzano, M. P., Seth, et al
2025: 24741264251339090
 - **Timing of Retinopathy of Prematurity Diagnosis and Treatment in Micro-Premature and Nano-Premature Infants During Inpatient Screening.** *Ophthalmology. Retina*

Yuan, M., Altamirano, F., Hu, D., Hoyek, S., Chaaya, C., Abidi, M., De Bruyn, H., Fulton, A., Mantagos, I. S., Wu, C., Gonzalez, E., VanderVeen, D. K., Gise, et al

2025

- **Choriocapillaris impairment in dry AMD: insights from swept-source OCT angiography and associations with structural biomarkers** *BRITISH JOURNAL OF OPHTHALMOLOGY*
Overbey, K., Romano, F., Ding, X., Bennett, C. F., Stettler, I., Garg, I., Ploumi, I., Vingopoulos, F., Yuan, M., Razavi, P., Finn, M., Lains, I., Patel, et al
2025
- **Antivasular Endothelial Growth Factor Injections for the Chronic Treatment of Macula-off, Fovea-on Diabetic Tractional Retinal Detachment With Vitreous Hemorrhage** *JOURNAL OF VITREORETINAL DISEASES*
Yuan, M., Hoyek, S., Kim, L. A., Chaaya, C., Patel, N.
2025; 9 (2): 236-240
- **Orbital and Ocular Venous Congestion: A Rare Manifestation of Hypervascular Paget Disease of the Bone.** *Ophthalmic plastic and reconstructive surgery*
Yuan, M., Chiou, C. A., Hu, J. C., Zekavat, S. M., Elliott, D., Patel, A. B., Lefebvre, D. R.
2025
- **Clinical and imaging characteristics associated with foveal neovascularization in proliferative diabetic retinopathy** *GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY*
Yuan, M., Romano, F., Ding, X., Garcia, M., Garg, I., Overbey, K., Bennett, C., Ploumi, I., Stettler, I., Lains, I., Vingopoulos, F., Rodriguez, J., Patel, et al
2025; 263 (3): 679-687
- **Multimodal Imaging Characteristics and Correlation to Outcomes in Patients With Central Retinal Artery Occlusion Presenting to a Large Academic Center** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
Hoyek, S., Yuan, M., Bejjani, R., Zacks, D., Miller, J., Vavvas, D., Patel, N.
2025; 270: 35-51
- **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
- **USE OF ADDITIONAL FACEDOWN POSITIONING WITH SILICONE OIL TAMPONADE FOR THE TREATMENT OF RETINAL REDETACHMENT.** *Retinal cases & brief reports*
Somisetty, A., Hoyek, S., Yuan, M., Somisetty, S., Kim, L. A., Patel, N. A.
2024; 18 (5): 628-632
- **Progressive Choriocapillaris Changes on Optical Coherence Tomography Angiography Correlate With Stage Progression in AMD.** *Investigative ophthalmology & visual science*
Romano, F., Ding, X., Yuan, M., Vingopoulos, F., Garg, I., Choi, H., Alvarez, R., Tracy, J. H., Finn, M., Ravazi, P., Stettler, I. V., Lains, I., Vavvas, et al
2024; 65 (8): 21
- **Decreased Macular Choriocapillaris Perfusion Correlates with Contrast Sensitivity Function in Dry Age-related Macular Degeneration.** *Ophthalmology. Retina*
Romano, F., Vingopoulos, F., Yuan, M., Ding, X., Garcia, M., Ploumi, I., Rodriguez, J., Garg, I., Tracy, J. H., Bannerman, A., Choi, H., Stettler, I., Bennett, et al
2024
- **A Comprehensive Assessment of Retinal Microvascular and Choroidal Alterations in Proliferative Diabetic Retinopathy using Swept-Source Optical Coherence Tomography Angiography (SS-OCTA)**
Razavi, P., Romano, F., Yuan, M., Ding, X., Garcia, M., Overbey, K. M., Garg, I., Bennett, C. F., Vingopoulos, F., Stettler, I., Finn, M., Ploumi, I., Vavvas, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Occlusive Retinal Vasculitis in a Pediatric Patient With Kikuchi-Fujimoto Disease and Sickle Cell Trait** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Lu, E. S., Hoyek, S., Yuan, M., Khatib, B., Gonzalez, E., Rothermel, H., Gise, R., Patel, N. A.
2024; 55 (4): 235-239
- **Comparison of Structural and Functional Features in Primary Angle Closure and Open Angle Glaucomas** *JOURNAL OF GLAUCOMA*

-
- Sun, J. A., Yuan, M., Johnson, G. E., Pasquale, L. R., Boland, M. V., Friedman, D. S., Elze, T., Shen, L. Q., Wang, M.
2024; 33 (4): 254-261
- **The Transition to Ophthalmology Residency: A National Survey of the Combined Ophthalmology PGY-1 Program.** *Journal of academic ophthalmology* (2017)
Azad, A. D., Yuan, M., Weinert, M., Rosenblatt, T. R., Miller, J. W., Lorch, A.
2023; 15 (2): e188-e196
 - **Defining Occult High-Risk Cysts of the Pineal Region: A Case Series** *OPERATIVE NEUROSURGERY*
Guadix, S. W., Marianayagam, N. J., Weidman, E. K., Yuan, M., Liechty, B., Greenfield, J. P., Souweidane, M. M.
2023; 24 (6): 572-581
 - **Structural and Functional Differences between Primary Angle-Closure Glaucoma and Primary Open-Angle Glaucoma: A Large Single-Center Study**
Sun, J. A., Yuan, M., Pasquale, L. R., Elze, T., Wang, M., Shen, L. Q.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
 - **Effective Low-Cost Ophthalmological Screening With a Novel iPhone Fundus Camera at Community Centers** *CUREUS JOURNAL OF MEDICAL SCIENCE*
Cheng, D., Babij, R., Cabrera, D., Yuan, M., Port, A., Mckenney, A., Zhu, J., Van Tassel, S., Imperato-McGinley, J., Sun, G.
2022; 14 (8): e28121
 - **Examining the Role of Early Diagnostic Imaging for Craniosynostosis in the Era of Endoscopic Suturectomy: A Single Institution Experience**
Guadix, S. W., Valenti, A., Zappi, K. E., Garton, A. L. A., Yuan, M., Buontempo, M., Perera, I., Souweidane, M. M., Imahiyerobo, T., Hoffman, C. E.
LIPPINCOTT WILLIAMS & WILKINS.2022: 1363-1368
 - **Utility of multimodality molecular profiling for pediatric patients with central nervous system tumors** *NEURO-ONCOLOGY ADVANCES*
Rajappa, P., Eng, K. W., Bareja, R., Bander, E. D., Yuan, M., Dua, A., Maachani, U., Snuderl, M., Pan, H., Zhang, T., Tosi, U., Ivasyk, I., Souweidane, et al
2022; 4 (1): vdac031
 - **Adverse events associated with femtosecond laser-assisted cataract surgery reported to the MAUDE database** *JOURNAL OF CATARACT AND REFRACTIVE SURGERY*
Koenig, L. R., Duong, A. T., Yuan, M., Van Tassel, S. H.
2022; 48 (2): 168-172
 - **Cerebrospinal fluid diversion for leptomeningeal metastasis: palliative, procedural and oncologic outcomes** *JOURNAL OF NEURO-ONCOLOGY*
Bander, E. D., Yuan, M., Reiner, A. S., Garton, A. L. A., Panageas, K. S., Brennan, C. W., Tabar, V., Moss, N. S.
2021; 154 (3): 301-313
 - **Adverse Events Associated with Microinvasive Glaucoma Surgery Reported to the Food and Drug Administration**
Duong, A. T., Yuan, M., Koenig, L. R., Rodriguez, G. H., Van Tassel, S. H.
ELSEVIER.2021: 433-435
 - **Melanoma brain metastasis presentation, treatment, and outcomes in the age of targeted and immunotherapies** *CANCER*
Bander, E. D., Yuan, M., Carnevale, J. A., Reiner, A. S., Panageas, K. S., Postow, M. A., Tabar, V., Moss, N. S.
2021; 127 (12): 2062-2073
 - **Durable 5-year local control for resected brain metastases with early adjuvant SRS: the effect of timing on intended-field control** *NEURO-ONCOLOGY PRACTICE*
Bander, E. D., Yuan, M., Reiner, A. S., Panageas, K. S., Ballangrud, A. M., Brennan, C. W., Beal, K., Tabar, V., Moss, N. S.
2021; 8 (3): 278-289
 - **Impact of a Multidisciplinary Craniofacial Clinic for Patients With Craniofacial Syndromes on Patient Satisfaction and Outcome** *CLEFT PALATE-CRANIOFACIAL JOURNAL*
Hoffman, C., Yuan, M., Boyke, A., Perera, I., Rabbin-Birnbaum, C., O'Connor, A., Souweidane, M., Imahiyerobo, T.
2020; 57 (12): 1357-1361
 - **Surgical Management of Complex Syndromic Craniosynostosis: Experience With a Rare Genetic Variant** *JOURNAL OF CRANIOFACIAL SURGERY*
-

-
- Celie, K., Yuan, M., Hoffman, C., O'Connor, A., Bogue, J., Imahiyerobo, T.
2020; 31 (1): 294-299
- **Partial Resolution of Symptomatology in a Patient with Comorbid Bipolar Disorder and Borderline Personality Disorder Through Electroconvulsive Therapy** *PSYCHIATRIC ANNALS*
Yuan, M.
2019; 49 (12): 539-541
 - **Developing a 3D composite training model for cranial remodeling** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Cheng, D., Yuan, M., Perera, I., O'Connor, A., Evins, A., Imahiyerobo, T., Souweidane, M., Hoffman, C.
2019; 24 (6): 632-641
 - **Cannabis use and psychiatric illness in the context of medical marijuana legalization: A clinical perspective** *GENERAL HOSPITAL PSYCHIATRY*
Yuan, M., Kanellopoulos, T., Kotbi, N.
2019; 61: 82-83
 - **Rapidly Progressive Multisutural Craniosynostosis in a Patient With Jackson-Weiss Syndrome and a De Novo *FGFR2* Pathogenic Variant** *CLEFT PALATE-CRANIOFACIAL JOURNAL*
Celie, K., Yuan, M., Cunniff, C., Bogue, J., Hoffman, C., Imahiyerobo, T.
2019; 56 (10): 1386-1392
 - **The Relationship Between Tumor Volume and Timing of Post-resection Stereotactic Radiosurgery to Maximize Local Control: A Critical Review** *CUREUS JOURNAL OF MEDICAL SCIENCE*
Yuan, M., Behrami, E., Pannullo, S., Schwartz, T. H., Wernicke, A.
2019; 11 (9): e5762
 - **Neurosurgery Training Camp for Sub-Internship Preparation: Lessons From the Inaugural Course** *WORLD NEUROSURGERY*
Radwanski, R. E., Winston, G., Younus, I., ElJalby, M., Yuan, M., Oh, Y., Gucer, S., Hoffman, C. E., Stieg, P. E., Greenfield, J. P., Pannullo, S. C.
2019; 127: E707-E716
 - **Impact of an advanced practice provider-directed plagiocephaly clinic for neurosurgical practices** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Hoffman, C., Yuan, M., Boyke, A. E., O'Connor, A., Haussner, T., Perera, I., Souweidane, M.
2019; 23 (6): 715-718
 - **Executive Dysfunction and Language Deficits in a Pediatric Patient with OCD and MDD with Suicidality. Case reports in psychiatry**
Yuan, M.
2019; 2019: 6574304
 - **Ultrafast Cortical Gain Adaptation in the Human Brain by Trial-To-Trial Changes of Associative Strength in Fear Learning** *JOURNAL OF NEUROSCIENCE*
Yuan, M., Gimenez-Fernandez, T., Mendez-Bertolo, C., Moratti, S.
2018; 38 (38): 8262-8276