



Sophia Y. Wang, MD, MS

Assistant Professor of Ophthalmology

CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

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Bio

BIO

Dr Wang is a trained glaucoma and cataract surgeon and clinician scientist performing research in artificial intelligence in ophthalmology.

Dr Wang graduated magna cum laude from Harvard University with a degree in Biochemical Sciences. She went on to spend a year in Japan on a Fulbright Scholarship. She then attended medical school at the University of California, San Francisco, during which she also completed a research year in ophthalmology and a yearlong Advanced Training in Clinical Research Certificate Program offered by the UCSF Department of Epidemiology and Biostatistics. After a PGY-1 intern year at Kaiser Permanente Northern California Oakland, she went on to complete ophthalmology residency training at the University of Michigan Kellogg Eye Center. She pursued additional training in glaucoma through a fellowship at the Stanford Byers Eye Institute, after which she continued on as faculty in the Department of Ophthalmology.

Dr Wang specializes in the medical and surgical treatment of all different forms of glaucoma, as well as cataract surgery. Her research interests lie in "big data" for ophthalmology. Her research focuses on developing artificial intelligence algorithms to predict glaucoma patients' outcomes, using natural language processing, computer vision, and other modeling methods for electronic health records data. Her work has been supported by the National Eye Institute, Research to Prevent Blindness, the American Glaucoma Society, and others.

CLINICAL FOCUS

- Glaucoma
- Cataract Extraction
- Glaucoma Specialist

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Ophthalmology
- Member, Bio-X

HONORS AND AWARDS

- Young Clinician Scientist Award, American Glaucoma Society (2023)
- McCormick-Gabilan Fellowship, Stanford (2021)

- Career Development Award, Research to Prevent Blindness (2020)

PROFESSIONAL EDUCATION

- Fellowship: Stanford Health Care Byers Eye Institute CA
- Residency: University of Michigan Dept of Ophthalmology (2017) MI
- MS, Stanford University , Biomedical Informatics (2021)
- Internship: Kaiser Permanente Oakland Internal Medicine Residency (2014) CA
- Board Certification: Ophthalmology, American Board of Ophthalmology (2018)
- Medical Education: University of California at San Francisco School of Medicine (2013) CA

Research & Scholarship

RESEARCH INTERESTS

- Data Sciences

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My interests lie in “big data”, informatics, and artificial intelligence for ophthalmology research. I started my career in data science acquiring the tools of basic epidemiology and public health research during my Fulbright year studying diet and metabolic syndrome in Japan. Then during medical school, I was awarded a fellowship through the NIH-funded Clinical and Translational Sciences Institute at UCSF to spend an extra year pursuing glaucoma research while enrolled in the Advanced Training in Clinical Research program offered by UCSF’s epidemiology and biostatistics department. I worked through a curriculum identical to the first year of the Master’s Degree program in clinical research and analyzed data from the National Health and Nutrition Examination Survey (NHANES) to explore associations with glaucoma as diverse as depression and vitamin and nutrient intake. Moving to the University of Michigan Kellogg Eye Center for ophthalmology residency gave me further opportunities to branch into health services and health equity research, and to grapple with the nuances of longitudinal and “messy” real world data of health insurance claims and electronic health records (EHR) data.

In June 2019, I completed a glaucoma fellowship at Stanford University at the Byers Eye Institute and continued to stay on as faculty in the Department of Ophthalmology. Rather than the traditional one-year full-time clinical fellowship, I crafted a two-year fellowship experience combining clinical training with continued research efforts. The fertile interdisciplinary environment of Stanford University allows me to work on newest frontiers in data science by working with scientists in biomedical data science and health informatics. I completed a Master’s Degree in Biomedical Informatics, which has given me the tools and skills I need as a clinician scientist at the interface of informatics and ophthalmology. I continue to expand my work in EHR data analysis, incorporating natural language processing and machine learning techniques to unlock insights from clinical and unstructured data in order to impact people’s health, health literacy, health attitudes, and health behaviors.

Currently, my work focuses on using and integrating a wide variety of data sources in my research, spanning both structured and unstructured forms, including national survey datasets, health insurance claims data, patient-generated online text, surgical video, and electronic health records. I investigate outcomes of treatments for glaucoma and cataract, as well as other areas of ophthalmology. My focus is on developing artificial intelligence methods to predict ophthalmology outcomes, and on applying novel methods for automated extraction of ophthalmic data, especially from free text and video. I am also building artificial intelligence tools to improve cataract surgical education (PhacoTrainer). I have an ongoing interest in health disparities and health equity, and am working to ensure that algorithms we develop for ophthalmology are fair.

For more information on our current projects, including recent papers and presentations, feel free to browse our research group website: <https://optima.stanford.edu/>

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Suyoung Choi, Karen Fernandez, Aparna Reddy, Zachary Wakefield

Postdoctoral Faculty Sponsor

Sean Farrell

Publications

PUBLICATIONS

- **Benchmarking GPT-5, LLaMA, and Mistral for Clinical Named Entity Recognition in Ophthalmology Progress Notes.** *Translational vision science & technology*
Majid, I., Ruan, F. Y., Wang, S. Y.
2026; 15 (4): 17
- **Improving Fairness and Mitigating Bias in Multicenter Electronic Health Records Models to Predict Glaucoma Outcomes** *OPHTHALMOLOGY SCIENCE*
Zhao, Y., Ravindranath, R., Hernandez-Boussard, T., Stein, J. D., Wang, S. Y., SOURCE Consortium
2026; 6 (4): 101119
- **Decline of Visual Function and Risk of Legal Blindness With Age in RPGR-Associated Retinal Degeneration: A Multicenter Study.** *Clinical & experimental ophthalmology*
Parekh, B. J., Stein, J. D., Abuzaitoun, R., Andrews, C. A., Branham, K., Milentijevic, D., Narayanan, D., Khan, N. W., Pershing, S., Wang, S. Y., Ahmad, B. U., Connor, T. B., Patnaik, et al
2026
- **How Far Have Large Language Models Advanced in Ophthalmology? A Systematic Review of Their Development, Evaluation, and Readiness for Clinical Use.** *Research square*
Kim, H., Yin, Y., Cao, Z., Liu, C., Li, A., Chen, Z., Ai, X., Chung, Y., Ma, F., Peng, X., Qian, L., Qin, Z., Raja, et al
2026
- **Unseen Insights: An AI-Powered Exploration of Secure Patient Messages in Ophthalmology.** *medRxiv : the preprint server for health sciences*
Kim, J. Y., Fazal, Z. Z., Wang, S. Y., Chang, R. T., Linos, E., Sepah, Y. J.
2026
- **Leveraging Large Language Models with Sequential Prompting to Extract Eye Examination Findings from Free-Text Ophthalmology Notes.** *Ophthalmology science*
Ruan, F. Y., Lam, J. W., Esmailkhanian, H., Chang, R. T., Wang, S. Y.
2026; 6 (1): 100944
- **Artificial Intelligence Models to Identify Patients at High Risk for Glaucoma Using Self-reported Health Data in a United States National Cohort.** *Ophthalmology science*
Ravindranath, R., Naor, J., Wang, S. Y.
2025; 5 (3): 100685
- **Artificial Intelligence Models to Identify Patients with High Probability of Glaucoma Using Electronic Health Records.** *Ophthalmology science*
Ravindranath, R., Wang, S. Y.
2025; 5 (3): 100671
- **Predicting progressive vision loss in glaucoma patients using functional principal component analysis and electronic health records.** *Frontiers in ophthalmology*

- Donnipadu, R. K., Sivoilella, M., Carroll, C., Wang, S. Y.
2025; 5: 1632827
- **Semaglutide and diabetic retinopathy: an OHDSI network study.** *BMJ open diabetes research & care*
Cai, C. X., Nishimura, A., Baxter, S., Goetz, K., Hribar, M., Toy, B., Barkmeier, A., Wang, S., Swaminathan, S., Flowers, A., Brown, E., Xu, B., Chen, et al
2025; 13 (6)
 - **Multicenter evaluation of machine and deep learning methods to predict glaucoma surgical outcomes.** *Frontiers in artificial intelligence*
Barry, S., Wang, S. Y.
2025; 8: 1636410
 - **Advancing Question-Answering in Ophthalmology With Retrieval-Augmented Generation: Benchmarking Open-Source and Proprietary Large Language Models.** *Translational vision science & technology*
Nguyen, Q., Nguyen, D., Dang, K., Liu, S., Wang, S. Y., Woof, W. A., Thomas, P. B., Patel, P. J., Balaskas, K., Thygesen, J. H., Wu, H., Pontikos, N.
2025; 14 (9): 18
 - **The Impact of Race, Ethnicity, and Sex on Fairness in Artificial Intelligence for Glaucoma Prediction Models.** *Ophthalmology science*
Ravindranath, R., Stein, J. D., Hernandez-Boussard, T., Fisher, A. C., Wang, S. Y.
2025; 5 (1): 100596
 - **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
 - **Enhancing diagnostic accuracy in rare and common fundus diseases with a knowledge-rich vision-language model.** *Nature communications*
Wang, M., Lin, T., Lin, A., Yu, K., Peng, Y., Wang, L., Chen, C., Zou, K., Liang, H., Chen, M., Yao, X., Zhang, M., Huang, et al
2025; 16 (1): 5528
 - **Development and Evaluation of a Computable Phenotype for Normal Tension Glaucoma.** *Ophthalmology science*
Chan, F., Lin, W. C., Tang, A., Xu, B. Y., Wang, S. Y., Boland, M. V., Sun, C. Q., Baxter, S., Stagg, B., Hribar, M., Chen, A.
2025; 5 (6): 100858
 - **Gestational hypertension increases risk of seizures in children and mice.** *The Journal of clinical investigation*
Xue, B., Gumusoglu, S. B., Tiarks, G., Todd, B. P., Wong, A., Santillan, D. A., Kuo, C. C., Chiang, H. Y., Ravindranath, R., Wang, S. Y., Mahajan, V. B., Johnson, A. K., Davis, et al
2025; 135 (12)
 - **Artificial Intelligence Models to Identify Patients at High Risk for Glaucoma Using Self-reported Health Data in a United States National Cohort** *OPHTHALMOLOGY SCIENCE*
Ravindranath, R., Naor, J., Wang, S. Y.
2025; 5 (3)
 - **Testing Computable Phenotypes of Moderate to Severe Glaucoma Based on Standardized Data Concepts**
Yu, K., Li, Z., Munimadugu, S., Kesselman, C., Shean, R., Hong, A. T., Frediani, T., Tang, A., Dea, N., Ambite, J., Pazzani, M., Bolo, K., Daskivich, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
 - **Predicting glaucoma surgical outcomes with artificial intelligence in a multicenter electronic health records repository**
Wang, S. Y., Barry, S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
 - **Evaluating RetFound: A Foundation Model for Glaucoma Detection Using Macular OCT Images**
Tran, J., Ravindranath, R., Chang, R. T., Wang, S. Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025

- **Advancing Question-Answering in Ophthalmology with Retrieval-Augmented Generation (RAG): Benchmarking Open-source and Proprietary Large Language Models**
Nguyen, Q., Nguyen, A., Dang, K., Liu, S., Nguyen, K., Wang, S. Y., Woof, W., Patel, P. J., Balaskas, K., Thygesen, J., Wu, H., Pontikos, N.
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
- **Enhancing Diagnostic Accuracy in Rare and Common Fundus Diseases with a Knowledge-Rich Vision-Language Model**
Wang, M., Lin, T., Lin, A., Zou, K., Tham, Y., Liu, D., Meihua, W., Thakur, S., Fenner, B., Wang, S., Lee, C. S., Sobrin, L., Chen, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Improving Instructional Compliance for AI-Generated Fundus Photos with Demographics-Aware Diffusion Model**
Luo, Y., Li, M., Eslami, M., Hashemabad, S., Elze, T., Shen, L. Q., Pasquale, L. R., Wang, S. Y., Morley, M., Zebardast, N., Boland, M., Friedman, D. S., Wang, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Mitigating Demographic Bias in Federated Learning for Glaucoma Detection**
Luo, Y., Shi, M., Eslami, M., Hashemabad, S., Morley, M., Elze, T., Shen, L., Pasquale, L., Wang, S., Zebardast, N., Boland, M., Friedman, D., Wang, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Leveraging Generative Language Models to Recognize Eye Examination Findings in Ophthalmology Progress Notes**
Ruan, F., Wang, S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Performance and Generalizability of a Deep Learning Model for Fundus Photographs In a Diverse Northern California Population**
Hirji, S., Chen, K., Koorwinder, A., Khanian, H., Yap, B., Li, K., Myung, D., Wang, S. Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **The Impact of Race and Ethnicity on Cataract Surgery in the Nationwide All of Us Cohort.** *Ophthalmic epidemiology*
Fernandez, K. S., Ravindranath, R., Wang, S. Y.
2025: 1-9
- **Artificial Intelligence Models to Identify Patients with High Probability of Glaucoma Using Electronic Health Records** *OPHTHALMOLOGY SCIENCE*
Ravindranath, R., Wang, S. Y.
2025; 5 (3)
- **PhacoTrainer: Automatic Artificial Intelligence-Generated Performance Ratings for Cataract Surgery.** *Translational vision science & technology*
Yeh, H. H., Sen, S., Chou, J. C., Christopher, K. L., Wang, S. Y.
2025; 14 (5): 2
- **Gap Analysis of Standard Automated Perimetry Concept Representation in Medical Terminologies.** *Journal of glaucoma*
Hallaj, S., Halfpenny, W., Radgoudarzi, N., Boland, M. V., Swaminathan, S. S., Wang, S. Y., Xu, B. Y., Amarasekera, D. C., Stagg, B., Chen, A., Hribar, M., Thakoor, K. A., Goetz, et al
2025
- **Using blood biomarkers and ophthalmological indicators of optical coherence tomography and angiography for the diagnosis of fundus lesions in patients with diabetes mellitus.** *Frontiers in clinical diabetes and healthcare*
Huang, F., Yu, M., Huang, L., Wang, R. K., Leng, T., Wang, S. Y., Liao, Y. J.
2025; 6: 1499344
- **Multimodal Artificial Intelligence Models Predicting Glaucoma Progression Using Electronic Health Records and Retinal Nerve Fiber Layer Scans.** *Translational vision science & technology*
Koorwinder, A., Zhang, Y., Ravindranath, R., Chang, R. T., Bernstein, I. A., Wang, S. Y.
2025; 14 (3): 27

- **Semaglutide and Nonarteritic Anterior Ischemic Optic Neuropathy.** *JAMA ophthalmology*
Cai, C. X., Hribar, M., Baxter, S., Goetz, K., Swaminathan, S. S., Flowers, A., Brown, E. N., Toy, B., Xu, B., Chen, J., Chen, A., Wang, S., Lee, et al
2025
- **Independent Evaluation of RETFound Foundation Model's Performance on Optic Nerve Analysis Using Fundus Photography.** *Ophthalmology science*
Chen, M. S., Ravindranath, R., Chang, R., Zhou, Y., Keane, P. A., Wang, S. Y.
2025; 5 (3): 100720
- **The Rural Shortage of Ophthalmic Subspecialists.** *JAMA ophthalmology*
Wang, S. Y.
2025
- **The Impact of Race, Ethnicity, and Sex on Fairness in Artificial Intelligence for Glaucoma Prediction Models** *OPHTHALMOLOGY SCIENCE*
Ravindranath, R., Stein, J. D., Hernandez-Boussard, T., Fisher, A., Wang, S. Y., SOURCE Consortium
2025; 5 (1)
- **Independent Evaluation of RETFound Foundation Model's Performance on Optic Nerve Analysis Using Fundus Photography.** *Ophthalmology Science*
Chen, M. S., Ravindranath, R., Chang, R., Zhou, Y., Keane, P. A., Wang, S. Y.
2025; 5 (3)
- **Association of obesity and metabolic syndrome with incident primary open angle glaucoma in the UK Biobank.** *Clinical & experimental ophthalmology*
Macri, C. Z., Wong, C. X., Tu, S. J., Sun, D. F., Casson, R., Singh, K., Wang, S., Sun, M. T.
2024
- **Incidence of Uveitis Following Initiation of Prostaglandin Analogs Versus Other Glaucoma Medications: A Study from the SOURCE Repository.** *Ophthalmology. Glaucoma*
Chauhan, M. Z., Elhousseiny, A. M., Marwah, S., Sallam, A. B., Stein, J. D., Kishor, K. S., SOURCE Consortium, Amin, S., Edwards, P. A., Srikumaran, D., Woreta, F., Schultz, J. S., Shrivastava, A., et al
2024
- **Big data and electronic health records for glaucoma research.** *Taiwan journal of ophthalmology*
Bernstein, I. A., Fernandez, K. S., Stein, J. D., Pershing, S., Wang, S. Y.
2024; 14 (3): 352-359
- **Beyond PhacoTrainer: Deep Learning for Enhanced Trabecular Meshwork Detection in MIGS Videos.** *Translational vision science & technology*
Kara, S., Yang, M., Yeh, H. H., Sen, S., Hwang, H. H., Wang, S. Y.
2024; 13 (9): 5
- **Gap Analysis of Glaucoma Examination Concept Representations within Standard SNOMED Clinical Terms.** *Ophthalmology. Glaucoma*
Hallaj, S., Khawaja, A. P., Rodrigues, I. A., Boland, M. V., Brown, E. N., Chen, A., Stagg, B. C., Stein, J. D., Sun, C. Q., Mahe-Cook, A. L., Swaminathan, S. S., Wang, S. Y., Xu, et al
2024
- **Automated Recognition of Visual Acuity Measurements in Ophthalmology Clinical Notes Using Deep Learning.** *Ophthalmology science*
Bernstein, I. A., Koornwinder, A., Hwang, H. H., Wang, S. Y.
2024; 4 (2): 100371
- **Big data and electronic health records for glaucoma research** *TAIWAN JOURNAL OF OPHTHALMOLOGY*
Bernstein, I. A., Fernandez, K. S., Stein, J. D., Pershing, S., Wang, S. Y.
2024; 14 (3): 352-359
- **Multi-institutional analysis of barriers to extracting and harmonizing glaucoma testing and imaging data**
Baxter, S., Hallaj, S., Boland, M. V., Stagg, B., Wang, S., Xu, B., Swaminathan, S., Brown, E., Chen, A., Sun, C., Amarasekera, D., Myers, J., Saifee, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024

- **Predicting Glaucoma Surgical Outcomes Using Neural Networks and Machine Learning on Electronic Health Records.** *Translational vision science & technology*
Barry, S., Wang, S. Y.
2024; 13 (6): 15
- **Multimodal Artificial Intelligence Models Predicting Glaucoma Progression to Surgery Using Electronic Health Records and Retinal Nerve Fiber Layer Scans**
Koorwinder, A., Zhang, Y., Ravindranath, R., Chang, R., Bernstein, I., Wang, S. Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Blood-born biomarkers for optic disc drusen**
Zhang, Y., Gong, X., Moss, H., Beres, S. J., Wang, S. Y., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Assessing Physical Activity and Sleep Patterns in Glaucoma Using Wearable Devices**
Bernstein, I., Koorwinder, A., Singh, K., Wang, S.
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
- **PhacoTrainer: Artificial Intelligence Generated Performance Ratings for Cataract Surgery**
Sen, S., Yeh, H., Wang, S., Chou, J., Christopher, K.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Development of Artificial Intelligence Models to Identify Patients at High Risk For Glaucoma Using National Electronic Health Records**
Ravindranath, R., Wang, S. Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Factors Associated with Cataract Surgery in the Nationwide All Of Us Cohort**
Fernandez, K., Ravindranath, R., Wang, S. Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Barriers to automated visual field perimetry data extraction, harmonization, and representation in OMOP**
Hallaj, S., Swaminathan, S. S., Wang, S., Xu, B. Y., Amarasekera, D., Boland, M. V., Stagg, B., Hribar, M., Thakoor, K., Goetz, K. E., Myers, J. S., Lee, A. Y., Christopher, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **The Impact of Race, Ethnicity, and Sex on Fairness in Artificial Intelligence for Glaucoma**
Wang, S. Y., Ravindranath, R., Hernandez-Boussard, T., Stein, J. D.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Addressing Generalizability in Clinical Named Entity Recognition: Federated Learning or Large Language Models?: A Case Study on Visual Acuity Extraction from US and UK Eye Institutes.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Nguyen, Q. N., Wu, H., Pontikos, N., Wang, S. Y.
2024; 2024: 949-958
- **Prediction Models for Glaucoma in a Multicenter Electronic Health Records Consortium: The Sight Outcomes Research Collaborative.** *Ophthalmology science*
Wang, S. Y., Ravindranath, R., Stein, J. D., SOURCE Consortium, Amin, S., Edwards, P. A., Srikumaran, D., Woreta, F., Schultz, J. S., Shrivastava, A., Ahmad, B., Kim, J., Bryar, P., et al
2024; 4 (3): 100445
- **Limitations of Assessing Barriers in Diabetic Retinopathy Screening-Reply.** *JAMA ophthalmology*
Wang, S. Y., Ludwig, C. A., Ravindranath, R.
2024
- **Using Natural Language Processing to Identify Different Lens Pathology in Electronic Health Records.** *American journal of ophthalmology*
Stein, J. D., Zhou, Y., Andrews, C. A., Kim, J. E., Addis, V., Bixler, J., Grove, N., McMillan, B., Munir, S. Z., Pershing, S., Schultz, J. S., Stagg, B. C., Wang, et al

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
- **Evaluating the Performance of Large Language Models for Named Entity Recognition in Ophthalmology Clinical Free-Text Notes.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Majid, I., Mishra, V., Ravindranath, R., Wang, S. Y.
2024; 2024: 778-787
- **Addressing Generalizability in Clinical Named Entity Recognition: Federated Learning or Large Language Models?: A Case Study on Visual Acuity Extraction from US and UK Eye Institutes.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Nguyen, Q. N., Wu, H., Pontikos, N., Wang, S. Y.
2024; 2024: 949-958
- **Predicting Glaucoma Progression to Surgery with Artificial Intelligence Survival Models.** *Ophthalmology science*
Tao, S., Ravindranath, R., Wang, S. Y.
2023; 3 (4): 100336
- **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
- **Impact of Type 2 diabetes mellitus and insulin use on progression to glaucoma surgery in primary open angle glaucoma.** *Eye (London, England)*
Sun, M. T., Pershing, S., Goldberg, J. L., Wang, S. Y.
2023
- **The Association Between Frailty and Visual Field Loss in U.S. Adults.** *American journal of ophthalmology*
Bernstein, I. A., Fisher, A. C., Singh, K., Wang, S. Y.
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
- **Real-world agreement of same-visit Tono-Pen vs Goldmann applanation intraocular pressure measurements using electronic health records.** *Heliyon*
Gui, H., Zhang, Y., Chang, R. T., Wang, S. Y.
2023; 9 (8): e18703
- **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
- **Impact of Metabolic Syndrome on Risk of Incident Primary Open Angle Glaucoma**
Macri, C., Wong, C., Casson, R., Singh, K., Wang, S., Sun, M.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Use of Natural Language Processing to Accurately Identify Cataracts and Other Lens Pathology in Electronic Health Record Data - A Study Using the Sight Outcomes Research Collaborative (SOURCE) Repository**
Stein, J. D., Zhou, Y., Andrews, C. A., Addis, V., Bixler, J., Grove, N., Kim, J. E., McMillian, B., Munir, S., Schultz, J., Stagg, B. C., Wang, S., Woreta, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Machine learning approaches for predicting glaucoma progression in a large multicenter electronic health records consortium: the Sight Outcomes Research Collaborative (SOURCE)**
Wang, S. Y., Stein, J. D.

ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023

- **Real-World Agreement of Same-Visit Tono-Pen Versus Goldmann Applanation Intraocular Pressure Measurements Using Electronic Health Records at an Academic Medical Center**
Zhang, Y., Gui, H., Chang, R., Wang, S. Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Clinical and Ophthalmic Biomarkers of Diabetes Mellitus: A Longitudinal Study of Visual Outcome**
Huang, F., Yu, M., Huang, L., Zhou, X., Wang, R. K., Leng, T., Wang, S., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Seeing What Patients See: Identifying Visual Acuity from Ophthalmology Clinical Notes Using Deep Learning and Natural Language Processing**
Bernstein, I., Koornwinder, A., Hwang, H., Wang, S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Predicting near-term glaucoma progression: An artificial intelligence approach using clinical free-text notes and data from electronic health records.** *Frontiers in medicine*
Jalamangala Shivananjaiah, S. K., Kumari, S., Majid, I., Wang, S. Y.
2023; 10: 1157016
- **PhacoTrainer: Deep Learning for Cataract Surgical Videos to Track Surgical Tools.** *Translational vision science & technology*
Yeh, H., Jain, A. M., Fox, O., Sebov, K., Wang, S. Y.
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