

Stanford

Bryce Chiang

Clinical Instructor, Ophthalmology

CLINICAL OFFICES

- **Stanford Byers Eye Institute**

2452 Watson Ct

MC 5353

Palo Alto, CA 94303

Tel (650) 723-6995 **Fax** (650) 565-8297

Bio

CLINICAL FOCUS

- Ophthalmology

ACADEMIC APPOINTMENTS

- Clinical Instructor, Ophthalmology

PROFESSIONAL EDUCATION

- Fellowship, Stanford University , Glaucoma (2024)
- Residency: Stanford University Ophthalmology Residency (2022) CA
- Internship: Alameda County Highland Hospital Internal Medicine Residency (2019) CA
- Medical Education: Emory University Medical School (2018) GA
- BS, The Johns Hopkins University , Biomedical Engineering (2008)
- MSE, The Johns Hopkins University , Biomedical Engineering (2009)
- PhD, Georgia Institute of Technology , Biomedical Engineering (2016)
- MD, Emory University School of Medicine (2018)

Publications

PUBLICATIONS

- **Endoscopic enucleation and clinicopathologic correlation of a small choroidal melanoma hiding massive extrascleral extension.** *American journal of ophthalmology case reports*
Yu, M. D., Chiang, B., Pasricha, M. V., Erickson, B. P., Mruthyunjaya, P.
2023; 29: 101797
- **Factors affecting eye preference in a prospective randomized controlled fellow eye study comparing WFG-LASIK and WFO-LASIK treatment**
Chiang, B., Manche, E. E.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **A protocol to inject ocular drug implants into mouse eyes.** *STAR protocols*
Lin, C., Sun, Y. J., Lee, S. H., Mujica, E. M., Kunchur, C. R., Wu, M., Yang, J., Jung, Y. S., Chiang, B., Wang, S., Mahajan, V. B.
2022; 3 (1): 101143

- **Teleophthalmology and Inequities in Diabetic Eye Disease at Safety Net Hospitals.** *Telemedicine journal and e-health : the official journal of the American Telemedicine Association*
Snider, M. J., Lee, D., Chiang, B., Gupta, S., Khalifa, Y., Maa, A. Y.
1800
- **An intravitreal implant injection method for sustained drug delivery into mouse eyes.** *Cell reports methods*
Sun, Y. J., Lin, C., Wu, M., Lee, S. H., Yang, J., Kunchur, C. R., Mujica, E. M., Chiang, B., Jung, Y. S., Wang, S., Mahajan, V. B.
2021; 1 (8)
- **Prospective, Randomized, Contralateral Eye Comparison of Wavefront-Guided Laser in Situ Keratomileusis (WFG-LASIK) and Small Incision Lenticule Extraction (SMILE) refractive surgeries.** *American journal of ophthalmology*
Chiang, B., Valerio, G. S., Manche, E. E.
2021
- **Contamination of multiuse eyedrop bottles by exhaled air from patients wearing face masks during the COVID-19 pandemic: Schlieren imaging analysis.** *Journal of cataract and refractive surgery*
Garcia, G. A., Hines, J. A., Wang, E. W., Davila, J. R., Chiang, B., Choi, D. Y.
2021; 47 (9): 1167-1174
- **Enhancing Risk Assessment in Patients with Diabetic Retinopathy by Combining Measures of Retinal Function and Structure.** *Translational vision science & technology*
Brigell, M. G., Chiang, B. n., Maa, A. Y., Davis, C. Q.
2020; 9 (9): 40
- **Ocular drug delivery targeted by iontophoresis in the suprachoroidal space using a microneedle** *JOURNAL OF CONTROLLED RELEASE*
Jung, J., Chiang, B., Grossniklaus, H. E., Prausnitz, M. R.
2018; 277: 14-22
- **The suprachoroidal space as a route of administration to the posterior segment of the eye** *ADVANCED DRUG DELIVERY REVIEWS*
Chiang, B., Jung, J., Prausnitz, M. R.
2018; 126: 58-66
- **Automated head motion system improves reliability and lessens operator dependence for head impulse testing of vestibular reflexes**
Tan, G. X., Schoo, D. P., Della Santina, C. C., Sun, C., Rahman, M. A., Contreras, N., Chiang, B., IEEE
IEEE.2017: 94-99
- **Clearance Kinetics and Clearance Routes of Molecules From the Suprachoroidal Space After Microneedle Injection** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
Chiang, B., Wang, K., Ethier, C., Prausnitz, M. R.
2017; 58 (1): 545-554
- **Thickness and Closure Kinetics of the Suprachoroidal Space Following Microneedle Injection of Liquid Formulations** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
Chiang, B., Venugopal, N., Grossniklaus, H. E., Jung, J., Edelhauser, H. F., Prausnitz, M. R.
2017; 58 (1): 555-564
- **Distribution of particles, small molecules and polymeric formulation excipients in the suprachoroidal space after microneedle injection** *EXPERIMENTAL EYE RESEARCH*
Chiang, B., Venugopal, N., Edelhauser, H. F., Prausnitz, M. R.
2016; 153: 101-109
- **Sustained reduction of intraocular pressure by supraciliary delivery of brimonidine-loaded poly(lactic acid) microspheres for the treatment of glaucoma** *JOURNAL OF CONTROLLED RELEASE*
Chiang, B., Kim, Y. C., Doty, A. C., Grossniklaus, H. E., Schwendeman, S. P., Prausnitz, M. R.
2016; 228: 48-57
- **Circumferential flow of particles in the suprachoroidal space is impeded by the posterior ciliary arteries** *EXPERIMENTAL EYE RESEARCH*
Chiang, B., Kim, Y., Edelhauser, H. E., Prausnitz, M. R.
2016; 145: 424-431
- **A CMOS Neural Interface for a Multichannel Vestibular Prosthesis** *IEEE TRANSACTIONS ON BIOMEDICAL CIRCUITS AND SYSTEMS*

- Hageman, K. N., Kalayjian, Z. K., Tejada, F., Chiang, B., Rahman, M. A., Fridman, G. Y., Dai, C., Pouliquen, P. O., Georgiou, J., Della Santina, C. C., Andreou, A. G.
2016; 10 (2): 269-279
- **Ocular delivery of macromolecules** *JOURNAL OF CONTROLLED RELEASE*
Kim, Y., Chiang, B., Wu, X., Prausnitz, M. R.
2014; 190: 172-181
 - **Over-Expression of Catalase in Myeloid Cells Confers Acute Protection Following Myocardial Infarction** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
Cabigas, E., Somasuntharam, I., Brown, M. E., Che, P., Pendergrass, K. D., Chiang, B., Taylor, W., Davis, M. E.
2014; 15 (5): 9036-9050
 - **Directional Plasticity Rapidly Improves 3D Vestibulo-Ocular Reflex Alignment in Monkeys Using a Multichannel Vestibular Prosthesis** *JARO-JOURNAL OF THE ASSOCIATION FOR RESEARCH IN OTOLARYNGOLOGY*
Dai, C., Fridman, G. Y., Chiang, B., Rahman, M. A., Ahn, J., Davidovics, N. S., Della Santina, C. C.
2013; 14 (6): 863-877
 - **Restoration of 3D vestibular sensation in rhesus monkeys using a multichannel vestibular prosthesis** *HEARING RESEARCH*
Dai, C., Fridman, G. Y., Davidovics, N. S., Chiang, B., Ahn, J., Della Santina, C. C.
2011; 281 (1-2): 74-83
 - **Design and Performance of a Multichannel Vestibular Prosthesis That Restores Semicircular Canal Sensation in Rhesus Monkey** *IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING*
Chiang, B., Fridman, G. Y., Dai, C., Rahman, M. A., Della Santina, C. C.
2011; 19 (5): 588-598
 - **Cross-axis adaptation improves 3D vestibulo-ocular reflex alignment during chronic stimulation via a head-mounted multichannel vestibular prosthesis** *EXPERIMENTAL BRAIN RESEARCH*
Dai, C., Fridman, G. Y., Chiang, B., Davidovics, N. S., Melvin, T., Cullen, K. E., Della Santina, C. C.
2011; 210 (3-4): 595-606
 - **Effects of Biphasic Current Pulse Frequency, Amplitude, Duration, and Interphase Gap on Eye Movement Responses to Prosthetic Electrical Stimulation of the Vestibular Nerve** *IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING*
Davidovics, N. S., Fridman, G. Y., Chiang, B., Della Santina, C. C.
2011; 19 (1): 84-94
 - **Chronic Stimulation of the Semicircular Canals Using a Multichannel Vestibular Prosthesis: Effects on Locomotion and Angular Vestibulo-Ocular Reflex in Chinchillas**
Sun, D. Q., Rahman, M. A., Fridman, G., Dai, C., Chiang, B., Della Santina, C. C., IEEE
IEEE.2011: 3519-3523
 - **Restoring the 3D Vestibulo-Ocular Reflex via Electrical Stimulation: The Johns Hopkins Multichannel Vestibular Prosthesis Project**
Rahman, M. A., Dai, C., Fridman, G. Y., Davidovics, N. S., Chiang, B., Ahn, J., Hayden, R., Melvin, T. N., Sun, D. Q., Hedjoudje, A., Della Santina, C. C., IEEE
IEEE.2011: 3142-3145
 - **Current and future management of bilateral loss of vestibular sensation - an update on the Johns Hopkins Multichannel Vestibular Prosthesis Project.** *Cochlear implants international*
Della Santina, C. C., Migliaccio, A. A., Hayden, R., Melvin, T., Fridman, G. Y., Chiang, B., Davidovics, N. S., Dai, C., Carey, J. P., Minor, L. B., Anderson, I., Park, H., Lyford-Pike, et al
2010; 11 Suppl 2: 2-11