

# CALEB LEVI SHUMWAY, MD, MBA

calebshumway.com

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## FELLOWSHIP

**Cornea, Cataract, and Refractive Surgery** Tampa, FL Jul 2023 – Jul 2024  
The Eye Institute of West Florida  
Precepted by: Dr. Robert Weinstock and Dr. Neel Desai

## RESIDENCY

**Ophthalmology Resident** Bronx, NY Jul 2019 – Jun 2023  
Icahn School of Medicine at Mount Sinai – Bronx Care  
Chief Resident Jul 2022 – Jun 2023

## PRE-RESIDENCY FELLOWSHIP

**Ocular Pathology & Research Fellow**  
University of Utah - Moran Eye Center Salt Lake City, UT Jun 2018- Jun 2019

- Assisted with in vitro, ex-vivo, and in-vivo studies evaluating new surgical techniques, instruments, and new intraocular lens designs.

## EDUCATION

**University of California, Irvine** Irvine, CA Jun 2013 - Jun 2018  
Doctor of Medicine (MD)  
Master of Business Administration (MBA)

**Brigham Young University** Provo, UT Aug 2005 - May 2012  
Bachelor of Science (BS)

## PUBLICATIONS

### Papers

- Shumway, C.**, Waite, A. Refractive Surgery for the Underserved: La Fuente in Cusco Peru. Journal of Global Refractive Surgery. In submission. May 2022.
- Pompoco, C. J., Curtin, K., Taylor, S., Paulson, C., **Shumway, C.**, Conley, M., Swiston, C., Stagg, B., Ritch, R., Wirostko, B. M. Summary of Utah Project on Exfoliation Syndrome (UPEXS): using a large database to identify systemic comorbidities. BMJ open ophthalmology. Oct 2021.
- Shumway, C.**, Curtin, K., Taylor, S., Sundar, K. M., Wirostko, B. M., & Ritch, R. Association between Obstructive Sleep Apnea and Exfoliation Syndrome: The Utah Project on Exfoliation Syndrome. Ophthalmology Glaucoma. May 2021.
- Shumway, C.**, Patel, B. C., & De Jesus, O. Neuromyelitis Optica (NMO, Devics Disease). StatPearls. Mar 2021.

- Bhatler, P., Cao, L., Crochetiere, A., Raefsky, S. M., Cuevas, L. R., Enendu, K., Frisch, E., **Shumway, C.**, Gore, C. & Browne, A. W. Using a Macro Lens for Anterior Segment Imaging in Rural Panama. *Telemedicine and e-Health*. Nov 2020.
- **Shumway, C.**, Aggarwal, S., Park, S. T., Wade, M., & Kedhar, S. Complicated case of Mycobacterium abscessus conjunctivitis in Sjögren's syndrome. *American journal of ophthalmology case reports*. Jun 2020.
- Balendiran, V., Werner, L., Ellis, N., **Shumway, C.**, Jiang, B., Kamae, K., & Mamalis, N. Uveal and capsular biocompatibility of a new hydrophobic acrylic microincision intraocular lens. *JCRS*. Mar 2020.
- Ellis, N., Werner, L., Balendiran, V., **Shumway, C.**, Jiang, B., & Mamalis, N. Posterior capsule opacification prevention by an intraocular lens incorporating a micropatterned membrane on the posterior surface. *JCRS*. Jan 2020.
- **Shumway, C.**, Aggarwal S., Farid, M., Muniz-Castro H., Jarstad, A., Garg, S., Kedhar, S., Wade, M. Penetrating keratoplasty using femtosecond laser: A comparison of postoperative visual acuity and astigmatism by suture pattern. *Cornea*. Dec 2019.
- **Shumway, C.**, Ellis, N., Heczko, J., Jiang, B., Werner, L., & Mamalis, N. Evaluation of the capsular safety of a new hybrid phacoemulsification tip in a cadaver eye model. *JCRS*. Nov 2019.
- Wade, M., Muniz-Castro H., Garg, S., Kedhar, S., Aggarwal S., **Shumway, C.**, Farid, M. Long-Term Results of Femtosecond Laser Enabled Keratoplasty with Zig-Zag Trephination. *Cornea*. Jan 2019.
- Aggarwal, S., Knight, D., **Shumway, C.** Wade, M., Crow, W., Kupperman, B. Retrospective Review of Visual Acuity Changes Post-Cataract Surgery in Patients with Optic Neuropathy. *Acta Ophthalmologica*. Dec 2018.
- Miner, B., Purdy, A., Curtis, L., Simonson, K., **Shumway, C.**, Baker, J., Vaughan, J., Percival, K., Sanchez, O., Lahham, S., Joseph, L., Fox, J. C. Feasibility study of first-year medical students identifying cardiac anatomy using ultrasound in rural Panama. *World J Emerg Med*. Sep 2015.

## Presentations

- **Shumway, C.**, Andrade, J., Buxton, D., Nataneli, N., Mayers, M., Wade, M. A Novel Suture Device for Anterior Segment Applications. *ARVO* May 2022.
- **Shumway, C.**, Murdakhayev, E., Nataneli, N. DMEK Practice Patterns: Surgeon Preferences and Anatomic Limitations. *ASCRS* Apr 2022.
- **Shumway, C.**, Stern, E., Lopez, M., Zhou, Z. A Peculiar Scotoma After Covid 19. *New York Retina* Oct 2021.
- **Shumway, C.**, Carasquillo, O., Kumar, S., Friedman, I. A Case of Penetrating Ocular Trauma: A Delayed Presentation with an Unusual Cyst. *American Society of Ophthalmic Trauma*. Jun 2021.
- **Shumway, C.**, Tucker, J., Wade, M., Chao, T., Vu, T., Garg, S. Farid, M. Lens Meridian Position: A Novel Biometry Variable and Its Implications for Refractive Calculation. *ASCRS* May 2020.
- Werner, L. **Shumway, C.**, Lubeck, D., Ellis, N., Heczko, J., Bontu, S., Kennedy, S., Mamalis, N. Hybrid Phacoemulsification Tip to Enhance Capsular Safety. *ASCRS* May 2020.
- **Shumway, C.**, Wirostko, B., Curtin, K., Taylor, S., Paulson, C., Annis, T., Ritch, R. Risk factors for Progression of Exfoliation Glaucoma: A Longitudinal Epidemiological Study. *AAO* Oct 2019.
- **Shumway, C.**, Ellis, N., Mamalis, N., Werner, L. Evaluation of the Capsular Safety of a Novel Hybrid Phacoemulsification Tip in a Cadaver Eye Model. *ASCRS* May 2019.

- Mamalis, N., Balendiran, V., Ellis, N., **Shumway, C.**, ASCRS/ESCRS Survey on Foldable IOLs Requiring Explantation or Secondary Intervention: 2018 Update. ASCRS May 2019.
- Tucker, J., **Shumway, C.**, Muniz-Castro, H., Chao, T., Vu, T., Garg S., Farid, M., Steinert R., Wade, M. Lens Meridian Position as a Predictor of Effective Lens Position. ARVO May 2018.

## Posters

- **Gregerson, C.**, Annis, T., Murri, M., Shumway, C., Pettey, JH., Shah, A. Usability of a Portable Virtual Reality Device for Visual Field Screening in Outreach Settings. ARVO June 2020.
- **Shumway, C.**, Curtin, K., Taylor, S., Paulson, C., & Wirostko, B. M. Evaluation of Risk Factors for Pseudoexfoliation and Progression to Glaucoma: A Longitudinal Epidemiological Study. ARVO May 2019.
- Knight, D., **Shumway, C.**, Mehta, M., Aggarwal, S., Banjeree, D., Ziogas, A., Kupperman, B. Retinoblastoma Incidence in Children and Socio-Economic Factors: California Cancer Registries 1988-2013. ASRS Jul 2018.
- **Shumway, C.**, Aggarwal, S., Farid, M., Garg, S. Kedhar, S., Wade, M. Femtosecond Laser-Enabled Keratoplasty with zig-zag pattern: Comparison of Suture Pattern. ARVO May 2018.
- Tucker, J., **Shumway, C.**, Muniz-Castro, H., Chao, T., Vu, T., Garg S., Farid, M., Steinert R., Wade, M. Lens Meridian Position as a Predictor of Effective Lens Position. ARVO May 2018.
- **Shumway, C.**, Aggarwal, S., Kedhar, S., Wade, M. Case report: Successfully treated corneal ulcer due to Mycobacterium abscessus in a patient without previous ocular surgery. ASCRS May 2018.
- Aggarwal, S. **Shumway, C.** Wade, M., Crow, W., Kupperman, B., Retrospective Review of Visual Acuity Changes Post-Cataract Surgery in Patients with Optic Neuropathy. ASCRS May 2018.
- **Shumway, C.**, Garg, S., Farid, M., Steinert, R., Kedhar, S., Wade, M. Lateral Tarsconjunctival Onlay Flap for the Surgical Treatment of Dry Eye Disease. ASCRS May 2017.
- **Shumway, C.**, Simonson, K., Miner, B., Curtis, L., Purdy, A., Vaughan, J., Baker, J., Sanchez, O., Percival, K., Fox, C.. Introductory Portable Ultrasound Curriculum for Congenital Heart Disease and Rheumatic Heart Disease in a Rural International Setting. World Congress on Ultrasound in Medical Education Annual Conference Oct 2014.
- Miner, B., Purdy, A., **Shumway, C.**, Simonson, K., Curtis, L., Vaughan, J., Baker, J., Percival, K., Sanchez, O., Fox, C. Screening for Pediatric Cardiac Abnormalities in Rural Panama. World Congress Ultrasound in Medical Education Annual Conference Oct 2014.

## Patents

- Tucker, J., Wade, M., Garg, S., **Shumway, C.** Methods and systems for predicting the post-operative effective lens position in cataract surgery. U.S. Provisional Patent Application No. 63/212,559. 18 Jun 2021.

## VOLUNTEER EXPERIENCE

### Volunteer Provider

Moran Eye Center

Salt Lake City, UT

Sep 2018 – Jun 2019

- Assisted with vision screening, education and interpretation for patients at Navajo Nation and Refugee clinic
- Collected visual field scans using mobile virtual reality (VR) headset device

### **Volunteer Provider and Interpreter**

Women for World Health Ica, Peru May 2018

- Spanish interpreter for cataract surgical mission in Ica Peru

### **Head of Special Projects**

Flying Samaritans, UC Irvine Irvine, CA Sep 2013 – Jun 2018

- Spanish interpreter for attending physicians at a rural medical clinic in Valle Redondo, Mexico

### **Medical Student Volunteer**

Mama Zebra Foundation Talek, Kenya Dec 2016

- Collected history and performed physical exams for medical team in Kenya

### **English Second Language Teacher**

Friends for Asia Chiang Dao, Thailand Dec 2015

- Taught English to middle and grade school students in Chiang Dao Boarding School in Thailand

### **Ultrasound Instructor**

Floating Doctors Bocas Del Toro, Panama Jun 2014 - Jul 2014

- Led successful crowdfunding campaign to raise over \$10,000 to fund trip and donate to organization

## **TEACHING EXPERIENCE**

### **Medical Student Tutor**

UC Irvine School of Medicine Irvine, CA Sep 2014- Jun 2014

- Tutored individual and group sessions for various courses, including Anatomy and STEP 2 CS

## **GRANTS & AWARDS**

- Ming Chen Foundation Scholarship May 2022  
Awarded based on qualities of “integrity, compassion, and enthusiasm to learn”
- Manhattan Eye and Ear Foundation Research Grant Jun 2021- Jun 2022  
Research funding for engineering and testing surgical device prototypes
- Program in Medical Education for the Latino Community (PRIME-LC) Aug 2016 - Jun 2018  
Master’s scholarship award for dedication to underserved communities
- UC Irvine Summer Travel Scholarship, UC Irvine School of Medicine Jun 2014 - Aug 2014  
Summer stipend to travel to Panama to teach clinical ultrasound

## **LEADERSHIP & PROFESSIONAL SOCIETIES**

- Chief Resident  
Revamped surgical wet-lab for residents learning cataract surgery
- Refractive Surgery Alliance (RSA)  
Leader for Resident Lecture Series
- Member: ASCRS, ARVO, AAO, RSA

## **LANGUAGES & INTERESTS**

- Fluent Spanish speaker
- Music (singing, playing guitar), cooking, jogging, biking, weight-lifting, surfing

## **REFERENCES**

Available upon request