

## **Emmanuel Chang, MD PhD FACS**

### **Adult & Pediatric Vitreoretinal Surgeon**

Dr. Chang was born in Tulsa, Oklahoma and grew up in Kansas and Tennessee. He was selected as one of the top 20 high school students in the country by USA Today. He received his Bachelor's degree from Duke University with departmental distinction in Biomedical and Electrical Engineering. He is the recipient of the A.B. Duke Memorial Scholarship, Duke University's most prestigious merit scholarship awarded to the top 15 students and studied at Oxford University in England. After college, he went on to complete a combined MD/PhD degree, graduating from medical school at Baylor College of Medicine and finishing his doctorate Ph.D. at Rice University in the Department of Bioengineering. His cutting edge doctoral thesis work under Dr. Rebekah Drezek, PhD combined state of the art nanotechnology with optical imaging for biological applications and was recognized both nationally and internationally. He was the recipient of the highly competitive NDSEG and Harvey Fellows fellowship during his PhD training.

He completed his internship training at Methodist Hospital and continued his ophthalmology residency at the Cullen Eye Institute of Baylor College of Medicine, where he was selected to be Chief Resident by the faculty his final year. While at Baylor, Emmanuel received the Milton Boniuk and Lions Eye bank Research award as well as the Goar Resident Research Award multiple years in a row. In addition, he is a post-doctoral Fight for Sight Research fellowship recipient.

Dr. Chang had the privilege of completing his vitreoretinal surgical fellowship at the world-renowned retinal surgical training program, Associated Retinal Consultants/William Beaumont Hospital in Michigan, under the guidance of Dr. Michael Trese, Dr. George Williams, Dr. Antonio Capone, Dr. Tarek Hassan and 6 other distinguished retina faculty. He was awarded the Heed Ophthalmic Fellowship Award and the Ronald G. Michels fellowship award, the nation's highest honor given to a retina surgical fellow. He participated in numerous clinical trials and received multiple research grants.

Dr. Chang is a board-certified ophthalmologist by the American Board of Ophthalmology. He is a member of the American Academy of Ophthalmology, Association for Research in Vision and Ophthalmology, American Society for Retina Specialists, and the Cullen Eye Institute Alumni Association. He has written several publications and book chapters in adult and pediatric retinal diseases and presented at both national and international meetings.

Dr. Chang specializes in all aspects of adult and pediatric vitreoretinal diseases with a particular interest in macular degeneration, macular holes, retinal detachments, diabetic retinopathy, vein occlusions, and acquired/inherited pediatric retinal disorders including retinopathy of prematurity, familial exudative vitreoretinopathy, persistent fetal vasculature, Coats' disease, and ocular trauma. His research focuses on integrating biomedical engineering/nanotechnology and development of novel therapeutics in vitreoretinal diseases.

Emmanuel is fluent in English, Mandarin, and conversational Spanish. When not at work, Dr. Chang enjoys the culinary arts, activities at church, and spending time with his wife and two kids.



#### **COLLEGE**

Duke University

#### **MEDICAL SCHOOL**

Baylor College of Medicine

#### **INTERNSHIP**

Baylor College of Medicine

#### **RESIDENCY**

Baylor College of Medicine

#### **FELLOWSHIP**

Associated Retinal  
Consultants/William Beaumont  
Hospital

#### **CURRENT POSITION**

Retina & Vitreous of Texas, PLLC  
Research Associate,  
Department of Chemistry, Rice  
University

#### **CLINICAL FACULTY**

Baylor College of Medicine