



## Khizer Khaderi MD, MPH

Clinical Associate Professor, Ophthalmology

### CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

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Palo Alto, CA 94303

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### Bio

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#### BIO

Dr. Khizer Khaderi is a Clinical Associate Professor at the Byers Eye Institute at Stanford University. Khaderi is the Founding Director of the Stanford Human Perception Laboratory (HPL) and the Stanford Vision Performance Center (VPC). He also serves as faculty at the Stanford Institute for Human-Centered AI and the Wu Tsai Human Performance Alliance (HPA)

Khaderi is a renowned Neuro-Ophthalmic surgeon, technologist and futurist. Dr. Khaderi is pioneering the field of Symbiotics, defined as the convergence of human science + computer science. Khaderi developed the discipline of Symbiotics following initial interest from CS students interested in his research at the Stanford Human Perception Lab. Symbiotics involves a deep understanding in the principles of human systems and applying these principles computationally, to design and develop the next generation of human-centric technologies, where machines perceive, understand and respond to optimize the human experience. Dr. Khaderi envisions the application of Symbiotic principles as the key to unlocking ambient intelligence.

Khaderi has extensive domain expertise in artificial intelligence (AI), spatial computing (virtual reality (VR), augmented reality (AR), mixed reality (MxR)), wearables, gaming, IoT, Web3, applied neuroscience, human factors, and human-machine interfaces/interaction. His research interests include developing personalized human intelligent systems based on the human brain and sensory systems, developing technologies to optimize human performance, and combining biological and computational principles to expand our capabilities in research, clinical practice, and everyday life. Dr. Khaderi's approach to advance research interests and develop practical applications for everyday use is building technology, companies and collaborative partnerships across academia and industry.

Dr. Khaderi's experience across industry sectors include consumer electronics, gaming, retail, life science, sports/Esports health care, Pharma, e-commerce, to name a few. He has developed novel technologies in these areas, and generated multiple invention patents. Selected as a "40 under 40", he contributed to President Obama's Council of Advisors on Science and Technology regarding vision technology and the aging population. He also advises multiple companies, venture firms and organizations including Apple, Google, Meta, Microsoft, Riot Games, Intel, Activision, Unity, Epic Games, NBA, Glaukos, the Global Esports Federation, the World Health Organization, the International Olympic Committee, the International Telecommunication Union, and the World Bank.

## **CLINICAL FOCUS**

- Neuro-ophthalmology

## **ACADEMIC APPOINTMENTS**

- Clinical Associate Professor, Ophthalmology
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Human Performance Alliance

## **PROFESSIONAL EDUCATION**

- Medical Education: University of Utah School of Medicine (2002) UT
- Fellowship: USC Neuro-Ophthalmology Fellowship (2011) CA
- Board Certification: Ophthalmology, American Board of Ophthalmology (2008)
- Residency: University of Arizona Ophthalmology Residency (2006) AZ
- Internship: Providence Sacred Heart Medical Center Transitional Year (2003) WA