Alvin Liu, MD

Dr. T. Y. Alvin Liu, the James P. Gills Jr. MD and Heather Gills Rising Professor of Artificial Intelligence in Ophthalmology, was born and raised in Hong Kong. He subsequently attended Phillips Exeter Academy, Cornell University (BA) and Columbia University (MD). He completed his ophthalmology residency and vitreoretinal fellowship training at the Wilmer Eye Institute at Johns Hopkins University (JHU) and was named an “Emerging Vision Scientist” by the National Alliance for Eye and Vision Research in 2020. Currently, he holds dual faculty appointments at the JHU School of Medicine and School of Engineering. He is also the Inaugural Director of the James P. Gills Jr. MD and Heather Gills Artificial Intelligence Innovation Center, which is the first dedicated endowed ($10 million) AI center at the JHU School of Medicine.

As an interdisciplinary strategist at the intersection of venture capital, startup companies and health systems, he specializes in the implementation and scaling of healthcare artificial intelligence (AI) technologies in both clinical and operational domains, for example autonomous AI for diabetic retinopathy screening and generative AI for revenue cycle management. He has operational experience in various processes that are critical for AI deployment, including incentive alignment of stakeholders, IT integration, workflow design, key performance indicator establishment, and change management.

In addition to being an advisor/Medical Director for startup companies and a venture partner at a healthcare-focused investment fund, he has also completed executive education coursework at Wharton (venture capital), Harvard (digital transformation in healthcare), and Johns Hopkins (value-based healthcare).

In terms of AI governance, he holds leadership positions on a health system and national level. At Johns Hopkins Medicine, he is a co-chair of the AI and Data Trust Council, a leadership team that oversees all AI initiates across the entire health system in the imaging, clinical and operational domains. On a national level, he is a member of the American Academy of Ophthalmology AI Committee, and represents ophthalmology at the American Medical Association AI Specialty Society Collaborative Meeting.