Dr. Liu is as an Assistant Professor of Otolaryngology, and of Plastic and Reconstructive Surgery by courtesy, at Stanford University School of Medicine. He is co-director of the Stanford Sleep Surgery Fellowship, and preceptor to the Stanford Oculoplastic Surgery Fellowship. He is a former Stanford Biodesign Faculty Fellow.

Dr. Liu received medical and dental degrees from the University of California-San Francisco (UCSF). He was a former Howard Hughes Medical Institute (HHMI) Research Scholar. After oral and maxillofacial surgery residency at UCSF, he completed the Stanford sleep surgery fellowship in 2014 with the Department of Otolaryngology and sleep surgery pioneer Dr. Robert Riley.

Dr. Liu practices the full scope of sleep apnea surgery including nasal, palate, tongue base, hypoglossal nerve stimulation, genioglossus advancement, and maxillomandibular advancement (MMA). He introduced variations of adult maxillary expansion (DOME) for OSA with Professor Christian Guilleminault in 2015, as well as an updated sleep surgery protocol at Stanford.

He is also routinely referred complex facial trauma and orthognathic surgery.

Dr. Liu's active areas of research include dynamic airway examination to optimize sleep surgery outcome, virtual surgical planning for facial skeletal surgery, and neuromodulation of the upper airway. He has given keynote talks internationally at preeminent sleep conferences across specialties. He has published over 70 scientific articles and medical texts, with original scientific work on sleep surgery.