

# Stanford

---



## George Liu

- Affiliate, Department Funds
- Resident in OHNS/Otolaryngology/Head & Neck Surgery

### Bio

---

#### INTERNET LINKS

- LinkedIn Profile: <https://www.linkedin.com/in/georgesliu>

#### Publications

---

##### PUBLICATIONS

- **Estimation of Cochlear Implant Insertion Depth Using 2D-3D Registration of Postoperative X-Ray and Preoperative CT Images.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology* Liu, G. S., Cooperman, S. P., Neves, C. A., Blevins, N. H. 2024
- **End-to-end deep learning classification of vocal pathology using stacked vowels.** *Laryngoscope investigative otolaryngology* Liu, G. S., Hodges, J. M., Yu, J., Sung, C. K., Erickson-DiRenzo, E., Doyle, P. C. 2023; 8 (5): 1312-1318
- **Glomangiopericytoma Presenting as a Middle Ear Mass.** *The Laryngoscope* Liu, G. S., Berry, G. J., Soltys, S. G., Blevins, N. H. 2023
- **Automated Radiomic Analysis of Vestibular Schwannomas and Inner Ears Using Contrast-Enhanced T1-Weighted and T2-Weighted Magnetic Resonance Imaging Sequences and Artificial Intelligence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology* Neves, C. A., Liu, G. S., El Chemaly, T., Bernstein, I. A., Fu, F., Blevins, N. H. 2023
- **Signal to noise ratio quantifies the contribution of spectral channels to classification of human head and neck tissues ex vivo using deep learning and multispectral imaging.** *Journal of biomedical optics* Liu, G. S., Shenson, J. A., Farrell, J. E., Blevins, N. H. 2023; 28 (1): 016004
- **Benign Ectopic Thyroid in the Lateral (Level II) Neck Compartment.** *Cureus* Liu, G. S., Berry, G. J., Desai, K., Megwali, U. C. 2022; 14 (2): e22140
- **Deep learning classification of inverted papilloma malignant transformation using 3D convolutional neural networks and magnetic resonance imaging.** *International forum of allergy & rhinology* Liu, G. S., Yang, A., Kim, D., Hojel, A., Voevodsky, D., Wang, J., Tong, C. C., Ungerer, H., Palmer, J. N., Kohanski, M. A., Nayak, J. V., Hwang, P. H., Adappa, et al 2022
- **Multispectral Imaging for Automated Tissue Identification of Normal Human Surgical Specimens.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*

Shenson, J. A., Liu, G. S., Farrell, J., Blevins, N. H.  
2020: 194599820941013

- **Using Nasal Self-Esteem to Predict Revision in Cosmetic Rhinoplasty.** *Aesthetic surgery journal*  
Oakland, T. S., Patel, P. n., Liu, G. S., Most, S. P.  
2020
- **Prospective Evaluation of the Safety and Efficacy of THRIVE for Children Undergoing Airway Evaluation.** *Pediatric quality & safety*  
Oakland, T. S., Liu, G. S., Caruso, T. J., Sidell, D. R.  
2020; 5 (5): e348
- **Hypotympanic Sound Baffle for Amelioration of Pulsatile Tinnitus due to Carotid and Jugular Bulb Dehiscence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*  
Liu, G. S., Blevins, N. H., Vaisbuch, Y. n.  
2019; 40 (7): 920–26
- **Systematic Review of Temporal Bone-Resurfacing Techniques for Pulsatile Tinnitus Associated with Vascular Wall Anomalies.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Liu, G. S., Boursiquot, B. C., Blevins, N. H., Vaisbuch, Y. n.  
2019: 194599818823205
- **Thyroid cancer risk in airline cockpit and cabin crew: a meta-analysis.** *Cancers of the head & neck*  
Liu, G. S., Cook, A. n., Richardson, M. n., Vail, D. n., Holsinger, F. C., Oakley-Girvan, I. n.  
2018; 3: 7
- **The effect of antibiotics on protein diffusion in the Escherichia coli cytoplasmic membrane** *PLOS ONE*  
Liu, G. S., Bratton, B. P., Gital, Z., Shaevitz, J. W.  
2017; 12 (10): e0185810
- **ELHnet: a convolutional neural network for classifying cochlear endolymphatic hydrops imaged with optical coherence tomography** *BIOMEDICAL OPTICS EXPRESS*  
Liu, G. S., Zhu, M. H., Kim, J., Raphael, P., Applegate, B. E., Oghalai, J. S.  
2017; 8 (10): 4579–94
- **Computer-aided detection and quantification of endolymphatic hydrops within the mouse cochlea in vivo using optical coherence tomography** *JOURNAL OF BIOMEDICAL OPTICS*  
Liu, G. S., Kim, J., Applegate, B. E., Oghalai, J. S.  
2017; 22 (7): 76002
- **Explaining the Coincidence Rule for Estimating Respiratory Compensation in Metabolic Acid-Base Disorders** *ANNALS OF INTERNAL MEDICINE*  
Liu, G. S., Bhalla, V.  
2017; 166 (8): 610-610
- **Superresolution microscope image reconstruction by spatiotemporal object decomposition and association: application in resolving t-tubule structure in skeletal muscle** *OPTICS EXPRESS*  
Sun, M., Huang, J., Bunyak, F., Gumpfer, K., De, G., Sermersheim, M., Liu, G., Lin, P., Palaniappan, K., Ma, J.  
2014; 22 (10): 12160-12176
- **IS THE BEDSIDE TIMED VIBRATION TEST RELIABLE?** *MUSCLE & NERVE*  
Botez, S. A., Liu, G., Logigan, E., Herrmann, D. N.  
2009; 39 (2): 221-223