

## Fanrui Fu

Life Science Research Professional 2, OHNS/Otology & Neurotology Division

### Bio

---

#### LINKS

- Kim Butts Pauly's lab: <http://med.stanford.edu/kbplab.html>
- Radiological Sciences Laboratory (RSL): <http://med.stanford.edu/rsl.html>

### Publications

---

#### PUBLICATIONS

- **From microscope to head-mounted display: integrating hand tracking into microsurgical augmented reality.** *International journal of computer assisted radiology and surgery*  
El Chemaly, T., Athayde Neves, C., Fu, F., Hargreaves, B., Blevins, N. H.  
2024
- **Deep Learning Method for Rapid Simultaneous Multistructure Temporal Bone Segmentation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Neves, C. A., Chemaly, T. E., Fu, F., Blevins, N. H.  
2024
- **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
- **Improving Transcranial Acoustic Targeting: The Limits of CT Based Velocity Estimates and The Role of MR.** *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*  
Webb, T. D., Fu, F., Leung, S. A., Ghanouni, P., Dahl, J., Does, M. D., Pauly, K. B.  
2022; PP
- **Distortion-Free Diffusion Imaging Using Self-Navigated Cartesian Echo-Planar Time Resolved Acquisition and Joint Magnitude and Phase Constrained Reconstruction** *IEEE TRANSACTIONS ON MEDICAL IMAGING*  
Dai, E., Lee, P. K., Dong, Z., Fu, F., Setsompop, K., McNab, J. A.  
2022; 41 (1): 63-74
- **Evaluation of magnetohydrodynamic effects in magnetic resonance electrical impedance tomography at ultra-high magnetic fields** *MAGNETIC RESONANCE IN MEDICINE*  
Minhas, A. S., Chauhan, M., Fu, F., Sadleir, R.  
2019; 81 (4): 2264-76
- **Functional magnetic resonance electrical impedance tomography (fMREIT) sensitivity analysis using an active bidomain finite-element model of neural tissue** *MAGNETIC RESONANCE IN MEDICINE*  
Sadleir, R. J., Fu, F., Chauhan, M.  
2019; 81 (1): 602-14
- **The effect of potassium chloride on Aplysia Californica abdominal ganglion activity** *BIOMEDICAL PHYSICS & ENGINEERING EXPRESS*  
Fu, F., Chauhan, M., Sadleir, R.  
2018; 4 (3)

- **Direct detection of neural activity in vitro using magnetic resonance electrical impedance tomography (MREIT)** *NEUROIMAGE*  
Sadleir, R. J., Fu, F., Falgas, C., Holland, S., Boggess, M., Grant, S. C., Woo, E.  
2017; 161: 104–19
- **Temperature- and frequency-dependent dielectric properties of biological tissues within the temperature and frequency ranges typically used for magnetic resonance imaging-guided focused ultrasound surgery** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*  
Fu, F., Xin, S., Chen, W.  
2014; 30 (1): 56–65