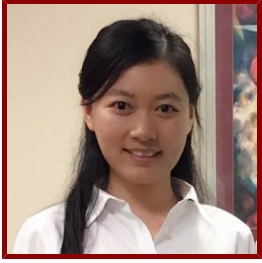


Stanford



Lu, Guolan

Postdoctoral Research Fellow, Otolaryngology - Head & Neck Surgery

Bio

HONORS AND AWARDS

- Stanford Molecular Imaging Scholar (SMIS Fellow), Stanford (2018-2021)
- Industry Selected Poster Award, World Molecular Imaging Congress (WMIC) (2018)
- Student Travel Award, World Molecular Imaging Congress (WMIC) (2017)
- Outstanding Translational Research Award, Department of Biomedical Engineering at Georgia Institute of Technology and Emory University (2016)
- Rising Stars in Biomedical Engineering and Science, Massachusetts Institute of Technology, Cambridge (2016)
- Outstanding Research Poster Award, Inauguration Workshop and Launch of the Integrative Cancer Imaging Research Initiative, Emory&Gatech (2016)
- Coulter Fellowship, The Wallace H. Coulter Foundation (2009-2012)
- Excellent Academic Scholarship, Shanghai Jiao Tong University (2009-2012)
- BOSCH Academic Scholarship, Shanghai Jiao Tong University (2011)
- BlackBerry Academic Scholarship, Shanghai Jiao Tong University (2011)
- National Scholarship of China, Ministry of Education of the P. R. China (2005)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Georgia Institute of Technology and Emory University , Biomedical Engineering
- Master of Science, Georgia Institute of Technology , Electrical and Computer Engineering
- Master of Science, Shanghai Jiao Tong University , Precision Instrument and Machinery

STANFORD ADVISORS

- Eben Rosenthal, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Detection of Head and Neck Cancer in Surgical Specimens Using Quantitative Hyperspectral Imaging.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Lu, G., Little, J. V., Wang, X., Zhang, H., Patel, M. R., Griffith, C. C., El-Deiry, M. W., Chen, A. Y., Fei, B.
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- **Deep convolutional neural networks for classifying head and neck cancer using hyperspectral imaging.** *Journal of biomedical optics*
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- **Detection and delineation of squamous neoplasia with hyperspectral imaging in a mouse model of tongue carcinogenesis.** *Journal of biophotonics*
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- **A Minimum Spanning Forest-Based Method for Noninvasive Cancer Detection With Hyperspectral Imaging** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
Pike, R., Lu, G., Wang, D., Chen, Z. G., Fei, B.
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- **Framework for hyperspectral image processing and quantification for cancer detection during animal tumor surgery** *JOURNAL OF BIOMEDICAL OPTICS*
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- **Spectral-spatial classification for noninvasive cancer detection using hyperspectral imaging** *JOURNAL OF BIOMEDICAL OPTICS*
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- **Medical hyperspectral imaging: a review** *JOURNAL OF BIOMEDICAL OPTICS*
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- **Semantic interpretation of robust imaging features for Fuhrman grading of renal carcinoma.** *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference*
Champion, A., Lu, G., Walker, M., Kothari, S., Osunkoya, A. O., Wang, M. D.
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- **Targeting MMP-14 for dual PET and fluorescence imaging of glioma in preclinical models.** *European journal of nuclear medicine and molecular imaging*
Kasten, B. B., Jiang, K., Cole, D., Jani, A., Udayakumar, N., Gillespie, G. Y., Lu, G., Dai, T., Rosenthal, E. L., Markert, J. M., Rao, J., Warram, J. M.
2019
- **Optical molecular imaging can differentiate metastatic from benign lymph nodes in head and neck cancer.** *Nature communications*
Nishio, N., van den Berg, N. S., van Keulen, S., Martin, B. A., Fakurnejad, S., Teraphongphom, N., Chirita, S. U., Oberhelman, N. J., Lu, G., Horton, C. E., Kaplan, M. J., Divi, V., Colevas, et al
2019; 10 (1): 5044
- **Probe-based fluorescence dosimetry of an antibody-dye conjugate to identify head and neck cancer as a first step to fluorescence-guided tissue preselection for pathological assessment.** *Head & neck*
Nishio, N., van Keulen, S., van den Berg, N. S., Lu, G., LaRochelle, E. P., Davis, S. C., Martin, B. A., Fakurnejad, S., Zhou, Q., Birkeland, A. C., Kaplan, M. J., Divi, V., Colevas, et al
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- **Fluorescence molecular imaging for identification of high-grade dysplasia in patients with head and neck cancer.** *Oral oncology*
Fakurnejad, S., van Keulen, S., Nishio, N., Engelen, M., van den Berg, N. S., Lu, G., Birkeland, A., Baik, F., Colevas, A. D., Rosenthal, E. L., Martin, B. A.
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- **The Clinical Application of Fluorescence-Guided Surgery in Head and Neck Cancer** *JOURNAL OF NUCLEAR MEDICINE*
van Keulen, S., Nishio, N., Fakurnejad, S., Birkeland, A., Martin, B. A., Lu, G., Zhou, Q., Chirita, S. U., Forouzanfar, T., Colevas, A., van den Berg, N. S., Rosenthal, E. L.
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- **Optimal Dosing Strategy for Fluorescence-Guided Surgery with Panitumumab-IRDye800CW in Head and Neck Cancer.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*
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- **Rapid, non-invasive fluorescence margin assessment: Optical specimen mapping in oral squamous cell carcinoma.** *Oral oncology*
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- **Intraoperative Tumor Assessment Using Real-Time Molecular Imaging in Head and Neck Cancer Patients.** *Journal of the American College of Surgeons*
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- **Ultrasound Imaging Technologies for Breast Cancer Detection and Management: A Review.** *Ultrasound in medicine & biology*
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- **Simulating cardiac ultrasound image based on MR diffusion tensor imaging** *MEDICAL PHYSICS*
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