

Stanford



Lei Xing

Jacob Haimson Professor and Professor, by courtesy, of Electrical Engineering
Radiation Oncology - Radiation Physics

CONTACT INFORMATION

- **Alternate Contact**

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Bio

ACADEMIC APPOINTMENTS

- Professor, Radiation Oncology - Radiation Physics
- Professor (By courtesy), Electrical Engineering
- Member, Bio-X
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Editor, Medical Physics Journal, (2003-2008)
- Member of international advisory board, Physics in Medicine and Biology, (2008- present)
- Member of Clinical Research and Cancer Epidemiology (CCE) Committee, American Cancer Society, (2006- present)
- Member of ZRG1 (Quick Trials on Imaging and Image-Guided Intervention) section, National Institute of Health, (2008- present)
- Chief of Medical Physics Research, Department of Radiation Oncology, Stanford University, (2007- present)
- Director of Radiation Physics Division, Department of Radiation Oncology, Stanford University, (2010- present)
- Member of Senior Editorial Board, American Journal of Nuclear Medicine and Molecular Imaging, (2010- present)
- Member of Editorial Board, Journal of Gastrointestinal Oncology, (2010- present)

HONORS AND AWARDS

- Concept Award for Breast Cancer Research, Department of Defense (2001)
- Research Scholar Award, American Cancer Society (2001)
- Basic Science Investigator Award, American Society of Therapeutic Radiology (ASTRO). (2002)
- Research Scholar of 2005, American Cancer Society (2005)

PROFESSIONAL EDUCATION

- PhD, Johns Hopkins University , Physics (1992)

COMMUNITY AND INTERNATIONAL WORK

- Clinical implementation of intensity modulated radiation therapy

LINKS

- Xing Lab: <http://xinglab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Biologically conformal radiation therapy (BCRT) and IMRT;

Metabolic imaging (MRSI, PET/CT) for tumor delineation and assessment of therapeutic response;

Radionuclide imaging based on novel tracers;

Radiological and molecular/metabolic image-guided radiation therapy;

Deformable image registration and removal of PET/CT respiratory artifacts;

Radiobiology study using molecular imaging (small animal PET, CT, MRI, optical);

Computer optimization of clinical decision-making and internet medicine.

CLINICAL TRIALS

- Cervical Nodal Mets in Squamous Cell Carcinoma of H&N - MRI, FDG-PET, & Histopathologic Correlation, Not Recruiting
- Endoscopic Capillary Oximetry for Tumor Diagnosis in Head and Neck Cancer, Not Recruiting
- Indirect Magnetic Resonance Lymphangiography of the Head and Neck Region Using Conventional Gadolinium-based Contrast, Not Recruiting
- Phase I Dose Escalation of Stereotactic Radiosurgical Boost for Locally Advanced Esophageal Cancer, Not Recruiting
- Real-Time kV Imaging vs. Real-Time 3D Patient Surface Tracking for Head & Neck Cancer, Not Recruiting
- Real-Time MV/kV Image Guided Radiation Therapy, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Xianjin Dai, Bulat Ibragimov, Siddique Khan, Christopher Locke, Ming Ma, Don Vernekohl, Jia Wu, Yixuan Yuan

Postdoctoral Research Mentor

Xianjin Dai, Bulat Ibragimov, Siddique Khan, Christopher Locke, Ming Ma, Don Vernekohl, Jia Wu, Yixuan Yuan

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Masters Program)
- Biomedical Informatics (Phd Program)