The Department of Radiation Oncology at Stanford University has an opening for a postdoctoral research fellow position with focus on machine learning for MRI-guided radiotherapy. The prospective candidate will be involved in developing machine learning algorithms to optimize the use of MRI for radiotherapy applications, such as sparse MRI for real-time motion tracking, quantitative/functional MRI for treatment response predication and MRI-based adaptive radiation treatment planning.

The department has an active research program on applying AI techniques to advance patient care in radiation oncology. We have been collaborating closely with other departments at Stanford as well as industrial partners. The successful candidates will have

• access to a wide range of state-of-the-art equipment including 3T MRI simulator (Siemens Skyra) and MR-Linac system (ViewRay MRIdian)
• opportunity to work with a multi-disciplinary team including physicians, electrical engineers, medical physicists and vendors
• opportunity to translate research to clinical applications
• chance to enroll into the medical physics certification program if he/she is qualified and interested in a career in clinical medical physics

The position requires a Ph.D. degree in Medical Physics, Physics, Biomedical Engineering, Electrical Engineering, Computer Science or related areas. We are in particular looking for candidates with background in machine learning, medical image analysis, image reconstruction and MRI sequence programming. Strong communication skills and the ability to work in multidisciplinary settings are highly desired.

To apply, please send a cover letter outlining your research experience and career objectives, current CV and the contact information of 3 references to Lianli Liu, PhD (llliu@stanford.edu).

Stanford is an equal opportunity and affirmative action employer committed to diversity and inclusion in all aspects of recruiting and employment.