Research Fellowship in Artificial Intelligence in Breast Imaging

Breast Imaging Service

Department of Radiology

Memorial Sloan Kettering Cancer Center

Memorial Sloan Kettering Cancer Center (MSK) has a position for a talented and productive quantitative scientist for a research fellowship to develop artificial intelligence tools in the field of breast cancer imaging. The cross-disciplinary breast cancer imaging team at MSK has multiple deep learning projects to improve breast cancer detection, lesion classification, risk assessment, patient triage, and to integrate these tools into the MSK clinical workflow. The research projects will leverage the uniquely large curated breast imaging datasets at MSK, as well as imaging datasets from collaborators at outside institutions, including breast MRI, ultrasound and mammography. The fellowship will involve working jointly with radiologists, computer scientists, and medical physicists.

Advanced programming skills with Python, machine learning skills, and quantitative modeling are a requirement. Advanced knowledge of MRI image processing, imaging physics, or statistical modeling would be desirable. The ideal candidate would have an established and focused research agenda in medical image-based machine learning. Applicants must possess a PhD in a quantitative discipline. She/he should have excellent communication skills with a proven ability to work successfully within a multi-disciplinary physician-scientist team on translational research projects. The successful applicant should have a demonstrated record of high-quality publications in scientific journals and strong analytical, writing and verbal skills. The candidate should have an interest in the biology of cancer and will interact with scientists and clinicians in multiple departments.

MSK is an NCI-Designated Comprehensive Cancer Center, and is recognized as one of the largest and most successful comprehensive cancer centers in the world, based on the availability of outstanding care-givers, "state of the art" facilities for cancer care, a commitment to excellence in the training of professionals for oncology, and cutting-edge cancer research. With a history extending over 100 years, The Department of Radiology is one of the oldest and largest cancer radiology groups in the world. MSK offers competitive salaries and benefits. Applicants with appropriate credentials are welcome to apply. We are happy to receive applications from outside the U.S. Interested applicants should forward a curriculum vitae and bibliography to:

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