An opening is now available for a postdoctoral researcher in the department of medical physics for individuals interested in combining deep learning with longitudinal MRI analysis for outcomes modeling. The two-year project will focus on the development of advanced deep learning and machine learning classifiers to early predict cardiac toxicity from radiation treatments by tracking tissue changes from longitudinal 4D cardiac MRI scans. Opportunities to work on related problems involving tracking of cancer response and radiation toxicity modeling using multi-modality images is also possible, time permitting. This is an excellent opportunity for a researcher with a PhD in biomedical engineering, medical physics, or computer science background interested in working on big data longitudinal image analysis with cutting edge deep learning methods. The job will involve working with a multi-disciplinary team of computer scientists, medical physicists, radiation oncologists, and pathologists.

Ideal candidates must have a strong programming background (Python and Matlab) and be familiar with deep learning libraries (e.g. Pytorch/Keras). Knowledge of machine learning and/or medical image analysis is required. Prior experience in MR image analysis, MRI harmonization, and/or radiomics analysis is highly desirable. Excellent written and communication skills are required. Successful completion of the project is expected to result in one or more high quality technical publications.

Memorial Sloan Kettering Cancer Center is located on the Upper East Side of Manhattan, NY, and is recognized as a world leader in clinical cancer care and research. Interested candidates should send a resume and list of three references via e-mail to:

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