Department of Medical Physics

Postdoctoral fellow or research associate in MRI research & development

The MRI Physics group at Memorial Sloan Kettering Cancer Center (MSK), led by Ricardo Otazo, offers postdoctoral research fellow or research associate positions (according to previous experience) in the areas of rapid and quantitative MRI development.

We are looking for individuals with skills and interest in the following areas – this can include pulse sequence programming, image reconstruction and combinations:

• Development of dynamic MRI techniques using non-Cartesian k-space trajectories and deep learning reconstruction

• Development of quantitative MRI techniques based on MR fingerprinting for body applications

• Application of developed technology to clinical cancer studies in Radiology and image-guided radiotherapy studies in Radiation Oncology

The selected candidates will work under the supervision of Ricardo Otazo and will have the opportunity to work closely with physicists, engineers and clinicians in the departments of Medical Physics, Radiology and Radiation Oncology.

Facilities: The MRI Physics team has access to research time at scanners in the Departments of Radiology (1.5T and 3T GE) and Radiation Oncology (1.5T MR-Linac and 3T Philips). The candidate will also have access to high performance computer servers for the development of deep learning applications. MSK is located on the Upper East Side of Manhattan and is recognized as a world leader in clinical cancer care and research.

Requirements: Candidates should have a PhD in physics, engineering or computer science. Background on MRI physics, pulse sequence programming in GE, compressed sensing, deep learning and/or image reconstruction is a plus. We also invite computer scientists interested in applications of deep learning and optimization algorithms.

To apply: Please submit a CV and brief research statement to:

Ricardo Otazo, PhD
Chief, Magnetic Resonance Imaging and Spectroscopy Physics
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MSK is an equal opportunity and affirmative action employer committed to diversity and inclusion in all aspects of recruiting and employment. All qualified individuals are encouraged to apply and will receive consideration without regard to race, color, gender, gender identity or expression, sexual orientation, national origin, age, religion, creed, disability, veteran status or any other factor which cannot lawfully be used as a basis for an employment decision.