



## Postdoctoral Fellow in AI-Based MRI Acquisition and Reconstruction

### Center for Biomedical Imaging (CBI)

NYU Grossman School of Medicine, New York, NY

Join the forefront of MRI innovation at the Center for Biomedical Imaging (CBI), where cutting-edge artificial intelligence meets advanced physics to revolutionize how we see inside the human body. We're seeking a Postdoctoral Fellow to help pioneer the next generation of AI-driven MRI acquisition and reconstruction technologies that will transform patient care worldwide.

**About Us:** The Bernard and Irene Schwartz Center for Biomedical Imaging (<http://cbiweb.net>) at the NYU Department of Radiology houses approximately 160 full-time research staff and provides state-of-the-art facilities, including whole-body 0.55T, 1.5T, 3T, and 7T scanners, extensive GPU infrastructure, and dedicated reconstruction servers with direct integration into the clinical PACS system. Researchers at CBI have pioneered key advances in MRI acquisition and reconstruction, including parallel imaging, compressed sensing, and deep learning-based reconstruction. CBI also leads the development of the fastMRI datasets, the largest open raw MRI database, which has become a central resource for AI-driven reconstruction research. CBI's approach is to encourage collaboration across research groups, to promote creativity and build a suitable environment for breakthrough innovations at the forefront of biomedical research.

**Research Focus:** The selected candidate will work in a multidisciplinary team led by Riccardo Lattanzi, PhD, and Li Feng, PhD, and will contribute to the development of next-generation MRI technologies that integrate AI with acquisition and reconstruction. The role involves close collaboration with radiologists, physicists, and engineers, with strong opportunities for clinical translation. Key research directions include:

- AI-driven MRI acquisition design and optimization
- Deep learning-based image reconstruction (including unrolled and self-supervised methods)
- Integration of physics-based models with data-driven approaches
- Joint reconstruction and denoising for accelerated MRI

**Qualifications:** We are looking for a self-driven, creative, and interactive scientist who is strongly motivated to acquire new skills and to perform interdisciplinary research. The ideal candidate is a Ph.D. or M.D./Ph.D. with experience in MRI and a solid background in deep learning. MR physics and/or biomedical engineering. Knowledge of pulse sequence programming and MR image reconstruction will be considered a plus.

**Salary/Benefits:** The position is for two years, contingent on performance. Salary is commensurate with experience. Full benefits will be provided.

**To Apply:** Informal inquiries are welcomed and will be answered promptly. For full application, please email a cover letter, your CV with a list of publications to:

[Riccardo.Lattanzi@nyulangone.org](mailto:Riccardo.Lattanzi@nyulangone.org)

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