



Department of Radiology
and Biomedical Imaging

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Postdoctoral Fellowship in Advanced MRI Techniques

Department of Radiology and Biomedical Imaging
University of California, San Francisco (UCSF)
The ResoNAN Lab

The **ResoNAN Lab** is a newly established research group, directed by Dr. Nan Wang, at the University of California, San Francisco (UCSF), dedicated to advancing MRI technologies. The lab focuses on developing innovative MRI acquisition, reconstruction, and physics-informed image correction technologies that make MRI faster, more quantitative, more robust, and ultimately more impactful for patient care. Potential projects include development of quantitative neuroimaging techniques, high-resolution diffusion imaging, motion estimation and correction, and musculoskeletal imaging. We are looking for curious, creative, and highly motivated **postdoctoral fellows** who are excited to tackle challenging problems, develop elegant solutions, and shape the next generation of MRI technology.

What You'll Work On

Our research integrates MRI physics, pulse sequence design, image reconstruction, and AI to create ultrafast, quantitative, and high-fidelity MRI techniques for understanding human structure and function. As a postdoctoral fellow, you will have the opportunity to:

- Design next-generation MRI acquisition and reconstruction methods
- Explore AI and computational imaging techniques
- Work with state-of-the-art Siemens and GE MRI systems spanning low to high field strengths (0.55T, 3T, and 7T)
- Collaborate with scientists, physicists, radiologists, and clinicians to translate new MRI technologies into real-world clinical applications

What We Offer

- Close mentorship in technical and career development, including MRI physics, clinical translation, and grant writing.
- A strong multidisciplinary team with diverse expertise.
- Access to world-class multi-vendor MRI facilities at UCSF
- Broad collaborations across engineering, neuroscience, AI, and clinical radiology across UCSF and Stanford.

Ideal Candidates

- Ph.D. in Biomedical Engineering, Medical Physics, Electrical Engineering, Computer Science, or related disciplines
- Strong background in MRI physics, signal processing, image reconstruction, machine learning, or computational imaging
- Experience with MRI pulse sequence programming (Pulseseq, Siemens IDEA, GE EPIC, etc.)
- Programming experience in Python, C/C++, MATLAB, or related languages

How to Apply

Please send the following materials to **Dr. Nan Wang** at nan.wang2@ucsf.edu

- CV
- Cover letter describing your research interests and career goals
- Contact information for three references

Join Us

If you are excited about inventing the next generation of MRI technology and working in a collaborative, supportive, and creative environment, **we would love to hear from you.**

Let's build the future of MRI together.

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