Post-Doctoral Research Fellow in Musculoskeletal Imaging

Department of Radiology and Biomedical Imaging
University of California, San Francisco

The department of Radiology and Biomedical Imaging at the University of California, San Francisco, has an opening for a post-doctoral research fellow in the field of musculoskeletal imaging. The position will be in the Bone Quality Research Lab (Pl: Galateia Kazakia, PhD). Dr. Kazakia's lab is located at the China Basin and Mission Bay campuses of UCSF, and is affiliated with the Musculoskeletal Quantitative Imaging Research (MQIR) group.

MQIR is a multidisciplinary team of imaging scientists, bioengineers, MR physicists, CT researchers, and radiologists, and has close collaborations with clinicians including orthopaedic surgeons, endocrinologists and rheumatologists. The successful candidate will have access to the extensive imaging and laboratory resources of the MQIR group, including research dedicated 3T MR systems, preclinical and clinical CT scanners, a High Resolution peripheral Quantitative Computed Tomography (HR-pQCT) system, a benchtop microCT scanner, and biological, chemical, and molecular laboratories. The research projects include development of novel image analysis algorithms and their clinical application to musculoskeletal diseases, such as osteoporosis. Specifically, this position will focus on: 1) development of image processing techniques using both CT and MR data to detect bone structure and explore progression of bone disease, and 2) the application of these techniques to two NIH-funded clinical studies on diseases with significant skeletal implications. More information on Dr. Kazakia's research program can be found at: https://radiology.ucsf.edu/research/labs/musculoskeletal-quantitative-imaging/labs/kazakia

A competitive candidate would possess: A PhD degree in biomedical engineering, computer science, mechanical engineering, biomechanics or related field; background in CT acquisition and related image processing and data analysis; strong programming skills with C, C++, Matlab; strong communication skills in written and verbal English; successful publication record. Experience with MR image acquisition and analysis a plus.

Applicants should email a CV, along with a brief letter outlining their research background and interests and a list of three references to Dr. Galateia Kazakia:

Galateia Kazakia, PhD
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