The Computational Breast Imaging Group (CBIG) of the Radiology Department at the University of Pennsylvania has open postdoctoral positions. CBIG’s mission is to act as a translational catalyst between computational science and cancer imaging research. Work in our group focuses on developing innovative image analysis, machine learning and data science methodologies for multimodality imaging, and also on incorporating such methods into clinically relevant applications. Most of our work to date has been on breast imaging, while more recently expanding more broadly in oncologic imaging, including lung and molecular imaging applications. A priority area is integrating imaging with molecular and genomic biomarkers towards precision medicine prevention and therapy for cancer.

Postdoctoral Position Qualifications:
We are seeking highly motivated individuals with excellent academic track-record, including first-author publications in peer-reviewed journals. Successful candidates should have, or be in the process of completing, a PhD (or equivalent) in Biomedical, Electrical or Computer Engineering, Computer and Information Science, or related field. Ideal applicants should have a background on biomedical image analysis, computer vision, pattern recognition and/or machine learning. Proficiency in quantitative analytical methods and computer programming (e.g., Python, C/C++) is essential. Experience with medical image analysis (e.g., MRI, CT, X-ray, Ultrasound) or statistical methods and software packages (e.g., ITK C/C++ libraries, R/SPSS) is preferable. Applicants should demonstrate excellent oral and written communication skills, and the ability to work effectively independently and as part of a multidisciplinary team.

Successful applicants will join a vibrant collaborative research environment and will work closely with clinical investigators. Collaborators include faculty in our Radiology department, the Center for Biomedical Image Computing and Analytics (CBICA), the Abramson Cancer Center (ACC), the Penn Institute for Biomedical Informatics (IBI), and the Center for Clinical Epidemiology and Biostatistics (CCEB).

For more information, please visit:

Computational Breast Imaging Group (CBIG):
http://www.uphs.upenn.edu/radiology/research/labs/cbig/

Center for Biomedical Image Computing and Analytics (CBICA):
http://www.cbica.upenn.edu/

Abramson Cancer Center (ACC):
https://www.pennmedicine.org/cancer

Center for Clinical Epidemiology and Biostatistics (CCEB):
http://www.cceb.upenn.edu/

Penn Institute for Biomedical Informatics (IBI):
http://upibi.org/

Penn Biomedical Postdoctoral Programs:
http://www.med.upenn.edu/postdoc/
For more details and to apply contact:

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Applications should include a letter of motivation, a curriculum vitae, and names and addresses of three references. The University of Pennsylvania is an equal opportunity employer.