POSTDOCTORAL FELLOW POSITIONS

Penn Image Computing and Science Laboratory (PICSL)
Department of Radiology
University of Pennsylvania
Philadelphia PA, USA
http://picsl.upenn.edu

The Penn Image Computing and Science Laboratory (PICSL), led by Drs. James C. Gee and Paul A. Yushkevich, seeks applicants for the position of Postdoctoral Fellow. The position involves pursuing independent cutting-edge image analysis methodology research, supporting and establishing collaborations with clinical investigators, and contributing to the specific aims of NIH grants AG027785, which involves developing and validating techniques for subfield-level hippocampal morphometry, and NS061111, focused on developing object-centric computational models for imaging analysis.

Applicants must have a Ph.D. or equivalent degree, an excellent background in mathematics and computational sciences, and a strong track record of independent research in medical image analysis, with publications in the field’s major journals (e.g., Neuroimage, IEEE-TMI, MedIA) and conferences (MICCAI, IPMI, etc.). Applicants with expertise in the following areas are particularly encouraged to apply:

- Computational neuroanatomy
- Deformable models and model-based segmentation
- Machine learning and statistical methods for image-based inference
- Insight Toolkit (ITK)

PICSL is a dynamic and growing group involved in many exciting biomedical imaging projects, including multi-modality neuroimaging, animal imaging, geometric and statistical modeling of imaging data, diffeomorphic registration and open source imaging applications. The lab’s current work spans numerous collaborations across a variety of disciplines and includes applications of image analysis to study the normal development and pathological correlates of brain structure; and the correlation between brain structural changes; cognitive deficits in central nervous system (CNS) disorders and the biomechanics of moving organs. PICSL is a part of the graduate groups of the Departments of Computer and Information Science, and Bioengineering. It is affiliated with the Centers for Functional Neuroimaging, for Bioinformatics and for Cognitive Neuroscience, the Institutes for Medicine and Engineering and for Translational Medicine and Therapeutics, the General Robotics, Automation, Sensing and Perception Laboratory, the Working Group on Applied Mathematics and Computational Science, and the Leonard Davis Institute of Health Economics, and is a founding member of the Center for Health Informatics at Penn, the Penn Center for Musculoskeletal Disorders, and the National Library of Medicine Insight Consortium.

PICSL is located in Philadelphia, a vibrant city that offers many professional and cultural opportunities. PICSL fosters a friendly, noncompetitive, collaborative environment where each individual member of the laboratory is able to thrive, while also effectively contributing to the group’s overall programmatic aims. Past postdoctoral trainees at PICSL have been very successful in obtaining highly competitive positions in the academy, industry and US Government agencies.

The University of Pennsylvania is an equal opportunity, affirmative action employer. Women and minority candidates are strongly encouraged to apply.

Please submit curriculum vitae, a brief statement of research interests, and names of three references to:

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