Postdoctoral Position on Deep Learning for Neuroimaging

Applications are invited for a postdoctoral position in the ANSIR Lab, University of Texas Southwestern Medical Center, Dallas, TX USA in the area of deep learning. The research involves the development of state-of-the-art deep learning algorithms (DNN, CNN) and probabilistic models for multi-modal neuroimage analysis using our large existing and growing database of neuroimaging data spanning traumatic brain injury in sports, diseases impacting cognition: (Alzheimer’s, diabetes, schizophrenia, epilepsy, cardiovascular, brain tumors) and chemical addictions. The project develops new tools for the systematic discovery of biomarkers of sports related brain injury, and for outcome predictions in disease and drug addictions. The candidate will benefit from membership in vibrant national and international research communities through our on-going collaborations with UPenn, UCLA, Children’s National in Washington DC, Univ. of Washington, Wake Forest Univ., Philips and Siemens Research, as well as a large local neuroscience community at UTSW’s O’Donnell Brain Institute, and UTD's Centers for Brain Health, Brain Performance, and Vital Longevity. The candidate will also benefit from regular interaction with computer scientists, statisticians, high performance computing scientists, neuroradiologists, neuroscientists and geneticists and from exposure to our group’s previous work on deep machine learning and big data medical image analysis.

The salary compensation is very competitive and is enhanced by the relatively low cost of living in Dallas. The position is a fully funded 2-year post with health insurance. The funding for this position is stable and drawn from multiple start-up packages and R01 NIH grants. Visa assistance is available for international applicants. This is an excellent opportunity to launch your career: hone skills in research, teaching, leadership, grant writing, while receiving close mentorship from multiple professors and clinicians and a lively UTSW postdoctoral association. UTSW is ranked in the Top 25 Best Places to Work for Postdocs (The Scientist).

QUALIFICATIONS: A Ph.D. is required and the successful candidate will have a strong background in Computer Science, Mathematics (Applied Math, Statistics), Electrical Engineering, Neuroscience or related field. Experience in signal/image processing (MEG/EEG, MRI, PET) and image analysis is highly desirable. Researchers with machine learning expertise in Deep Learning (DNN, CNN), probabilistic graphical models, ensemble methods, and SVM are particularly encouraged to apply. Solid big data programming skills with a working knowledge of Linux, C/C++, Python (scikit-learn, Theano, PyMVPA), and Matlab is desirable.

For consideration, please submit your application preferably as one single PDF-document including cover letter, detailed CV with publication & reference lists, a concise description of research interests & career goals, and academic transcripts to both:

Prof. Joseph Maldjian Joseph_Maldjian@UTSouthwestern.edu and 
Prof. Albert Montillo Albert.Montillo@UTSouthwestern.edu
with the subject line:"PostDocFellow-DeepLearn: (your name)".
Applications will be reviewed immediately until the position is filled.

UT Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.