Postdoctoral Research Associate, University of Massachusetts Lowell (UML)
Machine Learning, Computational Intelligence, and Content-based Multimedia Big Data Analysis

We seek multiple postdoctoral researchers to conduct analytical and experimental research in the areas of machine learning (including but not limited to deep learning), computational intelligence, content-based multimedia big data analysis (including but not limited to image, video, and text analytics), with an emphasis on prototype design, data analytics, algorithm evaluation, and system deployment, and help immediate supervisor in writing scholarly articles and proposals. The postdoctoral researcher will work directly under the supervision of Prof. Yu Cao (http://www.cs.uml.edu/~ycao/), director of the Big Data and Computational Intelligence Lab (BIGCI) at UMass Lowell's Computer Science department, Co-director of UMass Center for Digital Health. The BIGCI lab is currently being supported by more than $3.7 million external/federal research grants from both NSF and NIH. The BIGCI lab has produced over 70 peer-reviewed publications in highly reputable journals and top conferences, such as TNNLS, TBME, TPAMI, MTAP, Neurocomputing, Cognitive Neurodynamics, ACM MM, IEEE ICME, ACM CIVR, ACM ICMR, IEEE ISM, IAPR/IEEE ICPR, ACM/IEEE BODYNETS, IEEE EMBC, including best paper awards. More information about the lab can be found at http://www.cs.uml.edu/~ycao/. The postdoctoral researcher will also have plenty of opportunities to collaborate with other high profile Computer Science and Biomedical researchers at UMass Lowell, and researchers in the Boston Metro areas, including professors and researchers from MIT, Harvard University and Harvard Medical School, Boston University, UMass Medical School, and etc.

Minimum Qualifications (Required):
-A Ph.D. in Computer Science, with dissertation in the area of computational intelligence, machine learning, content-based multimedia big data analysis with an emphasize on image, video, and text analytics
-Minimum of 5 years of experiences conducting research in the field of computational intelligence, machine learning, and content-based multimedia analysis
-Must be willing and able to travel
-The ability to work effectively with diverse groups

UML is one of the five-campuses of the University of Massachusetts System, which was ranked 42nd in the world in 2013 by the Times Higher Education World University Ranking and was also ranked as the 19th best university in the world in the Times of London's 2011 World Reputation Rankings. UML a tier 1 public research university with a national reputation in science, engineering, Management and technology. The Department of Computer Science currently has 20 tenured and tenure-track faculty members, 3 full-time lecturers, and a few adjunct instructors serving over 700 BS students, 161 MS students, and 98 PhD students. It also offers an MS in Information Technology online program with over 100 students. It offers bioinformatics options at all levels, a robotics minor, a data science option, and a PhD in computational mathematics. The department faculty has active research programs in diverse areas across computer science with funding from the National Science Foundation, the National Institutes of Health, the Department of Homeland Security, the Department of Defense, and various companies including EMC, HP, Intel, Pfizer, and Sun. In the last few years, the total amount of external/federal grants from the department is more than $20 million.

UML is located in the city of Lowell, which is within 35 to 40 minutes driving to Boston downtown. The city of Boston is the largest city of New England. Both the city of Lowell and Boston belong to the Greater Boston Metropolitan, which is the home to over 4.6 million people as of the 2010 U.S. Census. The high-tech corridor of Massachusetts boasts over 3,500 high-tech computing related companies, which is one of the largest high tech clusters in the world. The Greater Boston has many sites and people significant to American history and culture, particularly the American Revolution, civil rights, literature, and politics. It is one of the nation's centers of education, finance, industry, and tourism, with the sixth-largest Gross metropolitan product in the country and twelfth-largest in the world.

Please send your detailed Curriculum Vitae, three writing samples of research publications, to this email address: ycao@cs.uml.edu. Thanks.