

PhD and Postdoc Openings in Data Science and Analytics Algorithms and Tools at UNC Charlotte (Starting Immediately–Fall 2016, Spring '17)

Contact Email: atalukde@uncc.edu

Web: <http://cs.uncc.edu/directory/talukder-ashit>

**Prof. Ashit Talukder, Professor and Director, Data Visualization Center, UNC Charlotte
Director, Data Science Initiative, UNC Charlotte-CCI**

Please email resumes, research experience/interests (and GRE/TOEFL scores, transcripts for PhD applicants) in word or PDF format with subject line: PhD /Postdoc openings in Data Science and Analytics Algorithms and Tools

The Data Visualization Center at UNC Charlotte is a highly interdisciplinary center that applies data science and analytics, interactive visualization and visual analytics to a variety of large scale and complex problems in science, engineering, medicine, business, design, and the arts. It was established in January, 2005 and includes over 30 faculty members and over a hundred graduate and undergraduate students. The Center faculty is truly interdisciplinary with members from CS, SIS, Engineering, English, Geography and Earth Sciences, Architecture, Ethics, and other departments. The Center also has one of the deepest programs anywhere in Data science and visual analytics, fundamental visualization, and human-computer interaction research with 9 faculty members doing work in these areas. The VisCenter Lab provides an exciting, state-of-the-art environment for data science, visual analytics, visualization and HCI research and application development with an abundance of advanced displays, interaction devices, and a large, multiscreen stereoscopic projection system. These unique facilities are available for use to all VisCenter faculty and students. In addition, faculty and students enjoy a highly interactive and collaborative environment through the VisCenter seminar series, invited speakers, symposia, workshops, social events, and other activities. The VisCenter has research funding from the Army, NIH, NSF, the Department of Homeland Security, DOE, U.S. DOT, EPA, Bank of America, and other agencies and companies.

The Center is looking for multiple exceptional PhD and post-doctoral candidates for the research activities in the Center. Candidates with experience in one or more of the following areas are encouraged to get in touch with the Center Director, Dr Ashit Talukder, at the email ID above.

Multiple PhD Openings and Post-Doc Openings in Data Science – Desired Skills and Research Areas (Candidates are expected to have experience in some, but not necessarily all, of the areas below)

- MS/BS in CS, EE or related field for PhD applicants; PhD in CS, EE or related field for postdocs
- Experience programming in multiple languages
- Data analytics and Data mining
- Real-time stream data processing, mining and analytics, and indexing
- Data analytics infrastructure and tools (e.g. Hadoop, Spark, emerging solutions)
- Distributed computing and processing infrastructure
- High-performance computing (massive data and streaming data)
- Machine learning (in the context of massive and/or complex data, and distributed data)
- Artificial intelligence
- Data computing in large volumes for cloud environments
- Analytic algorithms for distributed computing, metadata extraction, search and retrieval, data exploration, and machine learning
- Feature extraction, preprocessing, uncertainty quantification and subsampling for massive data
- Visual analytics and visualization
- Computer vision and image processing
- Applied R&D experience of the above areas in Data science and analytics to diverse domains