Ph.D. Student Positions in Computer Science at the City University of New York (CUNY)

Highly-motivated PhD students are sought to start in Fall 2014 under Professor Jianting Zhang in the areas of Parallel Spatial Databases and High-Performance Geospatial Computing.

The students will join a 4-year project entitled "Spatial Data and Trajectory Data Management on GPUs" that is recently funded by NSF IIS-Medium Collaborative Research program. The project aims at developing parallel indexing structures and query processing algorithms for spatial and trajectory data on commodity Graphics Processing Units (GPUs) to provide high performance which is crucial in speeding up existing applications and enabling new scientific and business inquiries. More information about the project can be found at: http://www.nsf.gov/awardsearch/showAward?AWD_ID=1302423

CUNY Graduate Center is classified as RU/VH (Research Universities with Very High research activity[i]). CUNY Ph.D. program in Computer Science is ranked favorably by US News and World Report BEST GRAD SCHOOL ranking in USA[ii]. Qualified graduate students will be compensated with $2000/month stipend and full in-state and out-state tuition reimbursement while working on the project.

Desired qualifications:
- A BS or preferably an MS in CS, EE, or related areas.
- Strong programming ability.
- Experience/interest in one or more of the following:
-- Spatial databases, multi-dimensional indexing and query processing
-- Knowledge of Geographic information Systems/Sciences
--Parallel techniques (e.g., CUDA, OpenMP, TBB)
-- Experiences in open source LLVM compiler

For further information:
- Professor Jianting Zhang's research at CUNY City College: http://www-cs.ccny.cuny.edu/~jzhang/
- CS Ph.D. program at CUNY Graduate Center: http://cs.gc.cuny.edu.

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[i] http://classifications.carnegiefoundation.org/descriptions/basic.php
[ii] http://grad-schools.usnews.rankingsandreviews.com/best-graduate-schools/top-science-schools/computer-science-rankings/page+4