Ginger D. Grannaman
Senior
Winston-Salem State University
Major: Computer Science

Faculty Advisor: Dr. Elva Jones

Program:
Research Alliance in Math & Science

Email: grannamangd@ornl.gov
Home: ggran866@wssu.edu

**Research Area:  Computing and Computational Sciences**

Collocation patterns represent subsets of Boolean spatial features which are often found in close geographic proximity. Examples of Boolean spatial features include plant and animal species, cancers, crime and business types. Spatial association rule mining discovers the spatially collocated features from large geo databases in an automated manner. However, in some practical situations the location of features may not be well defined. In this research project we propose to extend the collocation mining algorithm for uncertain spatial objects.

**Research Mentor:**
Ranga Raju Vatsavai
GIST/CSED
Oak Ridge National Laboratory

(865) 576-3569
vatsavairr@ornl.gov