

**Name:** Lee Florea

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**Education:** B.S., Physics and Mathematics, 1995, Western Kentucky University  
B.A., Secondary Education, 1996, Western Kentucky University  
M.S., Geological Sciences, 1998, University of Missouri-Columbia  
Ph.D. Candidate, Geology, ---, University of South Florida

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### **Research areas:**

My focus of study and investigation is in karst. I have a classical training in karst geology, hydrology, and geomorphology from caves in the Appalachian lowlands. Currently, my main focus is the differences between eogenetic (young rock) and telogenetic (old rock) karst aquifers. My Ph.D. work in Florida is a study of the relationship between conduits, matrix permeability, petrology, and directional anisotropy within the unconfined Floridan Aquifer. Other areas of current focus are karst geochronology in Florida, spring-flow behaviour, and conduit classification systems.

In addition to the above mentioned projects, I am currently involved in several other avenues of research. I am continuing funded research to assess potential impacts to karst due to construction of interstate highway systems in Kentucky. I am studying the impacts of paleo-tectonics, nick-point migrations, and post-glacial river incision upon the karst geomorphology and hydrology in southeast Kentucky. I have a general interest in paleokarst and its impact upon fluid flow. I am involved in several lines of research in the Bahamas primarily related to karstification of carbonate eolianites. I am involved in karst research in western Cuba, and in the Maya Mountains of Belize.

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