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Major:
Chemistry

Rank:
Graduate Student/ Chemistry Department
B.S. Chemistry Tennessee State University May 2008

Research Advisor(s)
Dr. Vercruyssen

Current Research
I am currently working on making lanthanide nanoparticles in different polysaccharides. The purpose of my research is to try to synthesize lanthanide nanoparticles for their unique optical properties and as models for potentially making actinide nanoparticles. The actinide nanoparticles (i.e. Uranyl) could be used in transportation and storage of nuclear material more safely and as starting material for making Plutonium nanoparticles (e.g., energy sources for NASA's satellites).

Long-term goals: (Future career)
I would like to become a forensic scientist specializing in microscopy and toxicology for the FBI, FDA, or a major cities police department. After working in the lab for a few years, I will go back to school and become a medical examiner and work for one of the same companies mentioned above.

Personal interests
I am interested in working with the transmission electron microscope as well as learning more about the atomic force microscope. I also enjoy troubleshooting problems when it comes to making nanoparticles in biological or organic compounds.

Nano-Bio Core Research Goals

I would like to become as fluent as possible on all the machines that are available to me so that I have a broad knowledge about analytical methods and instrumentation.