

Aeriel Murphy

Hometown: Wetumpka, Al

Status: PhD Student

Department: Materials Science and Engineering

Undergraduate Institution and Major: University of Alabama, Metallurgical and Materials Engineering

Current Activities/Hobbies: Running, going to the movies, community service, and traveling

Involved with NSBE in the past? Yes

Why did you choose to attend Graduate School? I was first introduced to research in high school where I was extremely competitive in science fair. I participated in year long college level research projects at both the University of Alabama and Alabama State University while in high school which allowed me to compete in science fair competitions all over the USA. When I got to undergrad my love for research and creating new knowledge grew more and more each year and I decided that pursuing a PhD was the right choice for me.

Research summary: My research focuses on understanding how grain size, texture, alloying, and composition affect the recrystallization and grain growth behavior of Mg alloys and how these parameters affect crack initiation, fatigue life, and crack growth during low-cycle fatigue testing.

Career goals: After graduation I plan to work in industry as a research engineer and to teach on the community college level.