

Chris Shearer



Graduate Institution: Georgia Institute of Technology

Location: Atlanta, GA

Graduate Discipline: Civil Engineering

Hometown: Strongsville, OH

Research Interests:

My research involves the multi-scale investigation on the structure (i.e., chemical, physical, and mechanical properties) and performance (i.e., durability) of structural materials, with a focus on sustainable concrete materials technology. Specifically, I am interested in the characterization and potential reuse of biomass-derived fly ash and treated high-carbon fly ash in concrete, geopolymers, and bricks. I hope to advance the technology necessary to promote clean energy through economically utilizing energy by-products in novel materials.

About me:

While pursuing my PhD I have served as a teaching assistant for the Materials of Construction undergraduate course in addition to conducting research. I am a member of many professional societies including the American Concrete Institute, the Earthquake Engineering Research Institute, and the American Society of Civil Engineers, where I have served in multiple leadership roles. During my undergraduate studies I was involved in the Concrete Canoe Competition as an administrative engineer, mix designer, and project manager. I also participated in marching band and choir as an outlet for my musical interests. I have interned at the Ohio Department of Transportation and worked on power plant design as a structural engineer for URS–Washington Division. I am an avid movie-watcher, reader, traveler, and supporter of Yellow Jackets sports. After graduation, I aspire to become a professor of Civil Engineering to integrate my passion for teaching and for materials technology.



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