

## Ph.D.'s on The Market



Ana Uroic Stefanko since (Ph.D. Candidate, Expected July 2021)

**Dissertation Title:** Pyrolytic transformation of organic waste-based biomass into a sustainable carbon adsorbent for in situ removal of heavy metals

**Area:** Environmental Engineering

**Research Interests:** Water and wastewater treatment, stormwater remediation, heavy metal pollution, adsorption of contaminants on carbon materials, application of novel adsorbents, optimization and use of ICPE for elemental analysis

**Career Goals:** To incorporate the knowledge obtained from professional experience and academic achievements into developing new environmentally sustainable solutions for engineering applications



Gregory Slusarczyk (Ph.D. Graduate, Expected July 2021)

**Dissertation Title:** Coastal Hazard Protection and Mitigation Measures to Enhance Coastal Resilience

**Area:** Coastal Engineering

**Research Interest:** Hydrodynamic modeling of storm surge and evaluation of surge barriers

**Career Goals:** To contribute to the most challenging coastal and hydraulics problems through research, development and application engineering and technology.



**Masoud Nobahar** (Ph.D. Graduate, Expected May 2021)

**Dissertation Title:** Development of An Early Warning Protocol Against Highway Slopes Failure On Yazoo Clay

**Area:** Geotechnical and Structural Engineering

**Research Interests:** GeoTechnical and GeoStructural Instrumentation and Performance Monitoring, Computational Mechanics and Geomechanics, Geophysical Testing, Slope Stability Analysis, Artificial Intelligence and Machine Learning Techniques

**Career Goals:** To be a research scientist with excellence



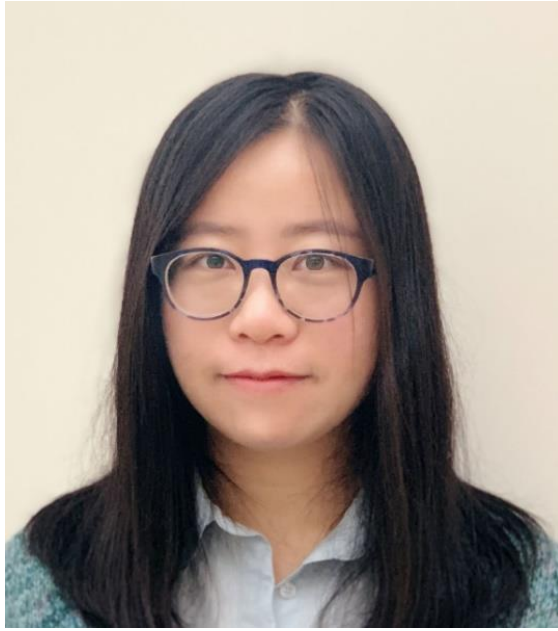
**John Ivoke** (Ph.D. Graduate, December 2020)

**Dissertation Title:** Effect of Seasonal Changes on the Hydro-Mechanical Properties of Expansive Yazoo Clay Soil

**Area:** Geotechnical Engineering

**Research Interests:** Effects of Climate and Seasonal Changes on Infrastructures, Smart and Sustainable Infrastructures, Computational Geomechanics and Soil-Structure Interaction.

**Career Goals:** To impact human lives positively through my profession and sustainable development.



**Shihui Liu** (Ph.D Graduate, May 2020)

**Dissertation Title:** Durability of MICP= treated Geomaterials and Reinforcement

**Area:** Geotechnical Engineering

**Research Interests:** Self-healing of construction materials, soil improvements, durability of building materials, erosion reduction of soil structure

**Career Goals:** Be an excellent, professional researcher



Peidong Su (Ph.D. Graduate, May 2019)

**Dissertation Title:** Toxicity Characterization and Treatment of Stainless Steel Pickling Residue for Beneficial Uses

**Area:** Environmental Engineering

**Research Interests:** Hazardous waste treatment; PFCs treatment; Fate and transportation of heavy metals; Synthesis of biochar and activated carbon.

**Career Goals:** Pursuit of excellence in environmental engineering with high integrity.



Xiaohua Luo (Ph.D. Graduate, May 2019)

**Dissertation Title:** Performance Evaluation, Threshold Updating, and Decision Modeling of the Pavement Warranty Program in Mississippi

**Area:** Traffic Engineering

**Research Interests:** Traffic engineering, pavement management system, and intelligent transportation system.

**Career Goals:** To be a traffic engineer and contribute my experience and knowledge in the field of traffic engineering.



Yang Li (Ph.D. Graduate, December 2018)

**Dissertation Title:** Environmental Fate and Transport of Insecticides Clothianidin and Thiamethoxam

**Area:** Environmental Engineering

**Research Interests:** Soil remediation, Heavy metal contamination, Fate and transport of contaminants in the environmental, Wastewater treatment, Bioreactor landfills

**Career Goals:** To be a professional engineer with excellence



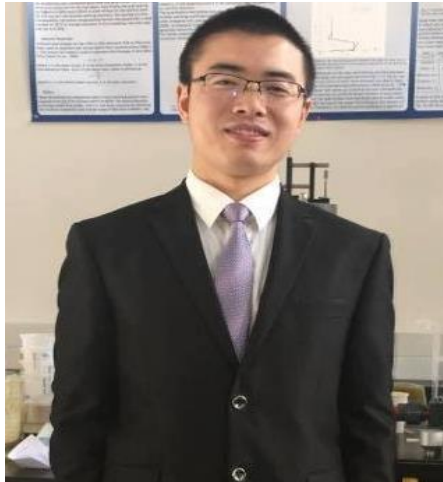
Lei Bu (Ph.D. Graduate, December 2018)

**Dissertation Title:** Development of Traffic Management Strategies Using Decentralized Traveler Information in Reducing Congestion

**Area:** Transportation Engineering

**Research Interests:** Optimization modeling for traffic network, emergency evacuation simulations and modeling, sustainable transportation infrastructure, transportation data analytics, and climate change.

**Career Goals:** To be the energetic and innovative researcher for the academic/governmental/industrial institution.



Xuesheng Qian (Ph.D. Graduate, December 2018)

**Dissertation Title:** Numerical Modelling of Submarine Debris Flow and Its Impact on Subsea Pipelines

**Area:** Coastal Engineering/ Water Resources Engineering

**Research Interests:** Computational Hydraulics, Geohazard Analyses, Storm Surge Modeling, Sediment Transport, High Performance Computing, etc.

**Career Goals:** My long-term goal of professional career is to become a recognized expert in addressing water challenges in 21<sup>st</sup> century.

Ubani Ogbonnaya (Ph.D. Graduate, May 2018)



**Dissertation Title:** “The Effects of Particle Size Distribution on Microbial Induced Calcite Precipitation and Improvement of Biocementation through Fiber Reinforcement and Confining Pressure

**Area:** Geotechnical Engineering

**Research Interest:** Soil Improvements, Experimental Soil Dynamics, Soil-structure Interaction, Levee Strengthening and Foundation Engineering.

**Career Goals:** To make use of my expertise in the field of geotechnical engineering to advance research on soil improvement and foundation engineering related problems.