



Position: Ph.D. Assistantship in Climate, Hydrology, and Data Science

Description: The Climate Analytics Group (<https://aub.ie/ClimateAnalytics>) in the Department of Crop, Soil, and Environmental Sciences at Auburn University is looking for Ph.D. students interested in climate data science and impact modeling. The perspective student will have the opportunity to conduct research on understanding and predicting of climate indicators, extreme climate events and their impacts on water, food, and ecosystems using data science, artificial intelligence (AI), and process-based modeling approaches combining with emerging climate/earth system data generated by sensors, satellites, numerical simulations, etc. The work will inform decision making, climate adaptations and resilience actions in food and agricultural systems, ecosystems, and water resources, and interact with stakeholders at regional or national scales (e.g., climate prediction center, agricultural community, coastal community, federal emergency management agency). Current research activities in the group are funded by National Science Foundation (NSF), National Institute of Food and Agriculture (NIFA), National Oceanic and Atmospheric Administration (NOAA), National Aeronautics and Space Administration (NASA), and Alabama Center of Excellence (ALCOE).

Qualifications: Applicants must have a MS or BS in a science or engineering field (such as hydrology, meteorology, climate/earth science, environmental science or engineering, agricultural and biological engineering, geography, computer science, statistics, physics, or related fields) at the time the PhD program begins. Deserving candidates should have strong commitment and motivation to study climate/hydrologic issues using statistics, machine learning, process-based models (e.g., climate models, hydrologic models, land surface models) and multi-dimensional data, have experience with at least one programming language (e.g., Python, R, etc.), and possess or demonstrate a potential for excellent written and verbal communication skills.

Application Deadline Date: Position open until filled; application review begins immediately.

Application: If interested, please send an email to Dr. Di Tian (tiandi@auburn.edu) with personal statement, CV, and unofficial transcripts.

Contact information: Questions regarding the position may be directed to:
Dr. Di Tian
Department of Crop, Soil, and Environmental Sciences
226 Funchess Hall, Auburn University
Auburn, AL 36849, USA
Email: tiandi@auburn.edu

Auburn University is a land grant institution recognized for its commitment to world-class scholarship, interdisciplinary research with an elite, top-tier Carnegie R1 classification. Auburn is home to more than 30,000 students, and its faculty and research partners collaborate to develop and deliver meaningful scholarship, science and technology-based advancements that meet pressing regional, national and global needs. The campus is located in the city of Auburn, which is a beautiful university town ranked by U.S. News & World Report among the top ten list of the best places to live in the United States for the year 2009.