THE UNIVERSITY OF TENNESSEE KNOXVILLE

Graduate Research Assistantship (PhD level) in the Fidan Ecosystems Informatics Lab for Decision-making (FEILD)

Topics of interest: environmental data science, water quality, flooding and disaster dynamics, water resources modeling

FEILD explores the complex dynamics of our environment using data analytics and modeling approaches. We pursue questions regarding how human actions influence ecosystem health and downstream water resources through an interdisciplinary, management-focused perspective. The PhD Student filling this position will have the opportunity to formulate their own research design that incorporates analytical skills in data-intensive modeling techniques such as Bayesian statistical learning, computer vision, and geospatial analytics. Potential projects revolve around flood modeling in agriculture-dominated landscapes, assessing water quality dynamics after major storm events, and quantifying emerging contaminant abundance/type in different urban watersheds.


Dr. Eminé Fidan

Start date: Summer or Fall 2025

Compensation: Tuition waiver with course fees paid, competitive stipend, and health insurance

Education and Skills: B.S. or M.S. in Biological and Agricultural Engineering, or closely related discipline. Prior experience with programming is not required but favorable. Strong scientific writing skills are preferred.

Location: University of Tennessee, Knoxville
The University of Tennessee is Tennessee's flagship university and a premier public research (R1) institution with close ties to Oak Ridge National Lab. The Great Smokey Mountains National Park is a 45 drive away and Knoxville boasts its outdoors (with 112 miles of paved greenways, 1000 acres of public wilderness, and the Tennessee River alongside campus for water lovers).

Mentoring Style: Weekly 1 on 1 meetings, open and consistent communication via email, opportunities to network at conferences, and personalized professional development opportunities

How to apply: Send an email about your research interests and qualifications, as well as your CV, transcript, and contact information of a reference to Dr. Eminé Fidan (efidan@utk.edu).