Capturing and Processing Drone Imagery and Data

Faculty Advisor: Dr. Amy Frazier, Assistant Professor in the School of Geographical Sciences and Urban Planning with mentoring from Dr. Kunwar Singh, Geospatial Scientist at AidData, The College of William and Mary

Research Project Overview: Drone use is on the rise across the world. Companies are rapidly adopting these geospatially-enabled technologies to perform surveys, create maps, monitor operations, and create 3D models for analysis. We are looking for a student who is interested in learning more about how to process drone imagery into products that can be used for data analytics. The student will work through a series of hands-on, computer laboratory exercises focused on capturing and processing drone imagery and data. These exercises have been created for a new textbook on capturing and processing drone imagery and data, so the student will receive a behind-the-scenes peek into textbook development and the content before it hits the shelves.

Any pre-requisites needed? An interest in drones and prior coursework in GIS (e.g., GIS 211, GIS 311) is strongly preferred.

Research available for scholarship ($1000)? Yes

Research available for course credit (45 hours per credit)? Yes

Research opportunity available to ASU Online Students: Yes