



Drone-based Thermal Imaging Workshop for Conservation

Thursday, January 11, 10am-12pm

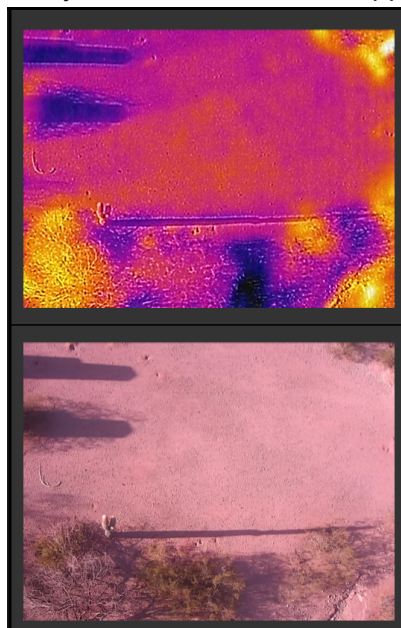
10AM - 12PM Workshop

McDowell Sonoran Conservancy
7729 East Greenway Road, Suite 100
Scottsdale, AZ 85260

9-9:45AM Hands-on Drone Flight (optional)

Fraesfield Trailhead
13294-13400 E Rio Verde Dr, Scottsdale, AZ 85262

We are researchers at the School of Arts, Media, and Engineering at Arizona State University, studying how drones can be applied in citizen science projects. We are working with an **aerial thermal imaging drone** which could be used for mapping temperatures in the park over different seasons, live tracking and monitoring of specific species, as well as plant cover analysis and various other applications.



Images captured during test flights in Phoenix, AZ. Top: Thermal Image, Bottom: Digital Image.

We are organizing a workshop to show our flyover data and drone to the McDowell Sonoran Conservancy community. We hope to get your feedback and ideas about how this technology could be applied in your current research endeavors. We will also discuss, teach the ethics of drone flight for research, and allow you to experience this technology first-hand through thermal image processing, analysis, and related discussions.

The workshop will run from 10AM to 12PM at the McDowell Sonoran Conservancy. There will be an optional hands on drone flight prior to the workshop from 9-9:45AM at the Fraesfield Trailhead. During this session, you will learn about about the technical side of drone flight itself, and aid in a test flight for data collection which will be analyzed in the following workshop.

The workshops will be audio and video-recorded, and photographed. No prior drone experience necessary! You must be 18 or older to participate. Please contact Kyle to RSVP or if you have any questions kyle.hoefer@asu.edu.