

The assembly of high elevation pollinator communities  
Lauren Ponisio

Sampling plan:

I plan to observe pollinator interactions in high elevation meadows in the Sangre de Cristo, Sandias/Manzanos, Magdalena/Mt. Washington, Gila and Chiricahua mountains. In each mountain range/region I hope to sample from two meadows:

- 1) Sangre de Cristo: Johnson's mesa (~July 10- 13) and the meadows off Jack's Creek Trail (~July 16-19)
- 2) Sandias/Manzanos: Kiwanis meadow in the Sandias (~July 23-26) and the meadows near Capilla peak in the Manzanos (~July 29 – August 1)
- 3) Magdalena/Mt. Washington: meadow off North Baldy Trail in the Magdalenas (August 4-7), meadows near fire tower in Mt. Washington (~August 8-11)
- 4) Gila: Bearwallow meadows (~August 15-18) and Ben Lewis meadows (~ August 19-22)
- 5) Chiricahua: Rustler Park (~August 25-28) and Round Park (~August 29-September 1)

Because we cannot sample in the rain, exact sampling days will depend on how many days we loose to weather.

I will spend four days in each meadow observing interactions from approximately 9am to 2pm. In order to identify the flower visitors, I will make reference collections of pollinators including Lepidoptera (butterflies, skippers and moths), Diptera (flies), Hymenoptera (wasps and bees) and Coleoptera (beetles). I will also take pictures and measurements of flowering plants involved in the interactions and collect specimens I am unable to identify using field guides.

I will be accompanied by Hanna Scardina, an undergraduate research assistant from UC Berkeley.