Sandra Cooke, Greensboro College

Class info: BIO 3400 Ecology, 11 students (all bio majors), face-to-face, field work only within walking distance to campus

What we did:

Backyard Pollinators

- Field component
 - <u>90 min class</u> before the lab to prep (went over background & methods, including morphospecies ID)
 - <u>Homework</u>: Students reviewed morphospecies
 ID and took quiz
 - <u>3-hour lab</u>: students constructed quadrat, walked to field site, did two plots each.
- Data analysis component
 - <u>3-hour lab</u>: network interaction plots of individual, class, and other class' data
- Assessment: EREN tool, lab handouts, test questions

Lichen in Diverse Landscapes

- Field component
 - <u>45 min class</u> before the lab to prep (went over background & methods, drew sampling grids)
 - <u>Homework</u>: join EREN Lichen, download canopeo, photo transfer plan
 - <u>3-hour lab</u>: students worked in pairs on campus, did five trees per pair; uploaded all data on iNaturalist.
- Data analysis component
 - <u>3-hour lab</u>: worked w/ class data, EREN lichen data, NEON data (provided by project leaders)
- Assessment: EREN tool, lab handouts, test questions

What went well

- Backyard pollinators fieldwork they really enjoyed it, and I should've have them do more!
- Network interaction plots (by hand) were a good way to visualize some of the data on a smaller scale.
- Lichen fieldwork overall went well; it helped that we had already identified and measured these trees and used iNaturalist a bunch.





Possible improvements

- **Backyard pollinator analysis** provide more guidance on how to use the provided large datasets to test the project hypotheses.
- Lichen data entry & photo upload into iNaturalist was cumbersome. Are so many photos needed?
- Lichen data download from iNaturalist was weird (e.g., DBH and pH fields were not available)
- Lichen spatial module was cool, but I wasn't sure if it was helpful for seeing relationships between lichens, air quality, and other variables.