



MID-ATLANTIC MEGALOPOLIS

Year 3

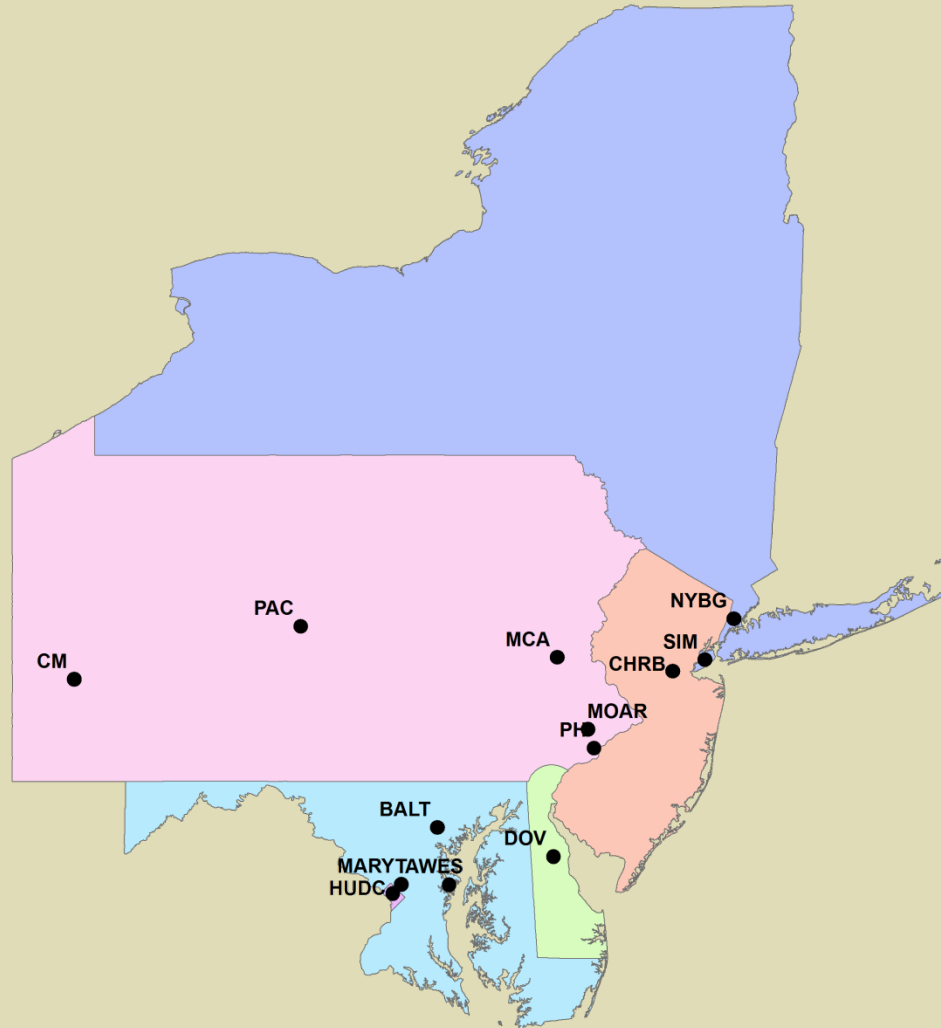


Morris Arboretum
UNIVERSITY of PENNSYLVANIA

Cindy Skema
Wed 2 Oct 2019



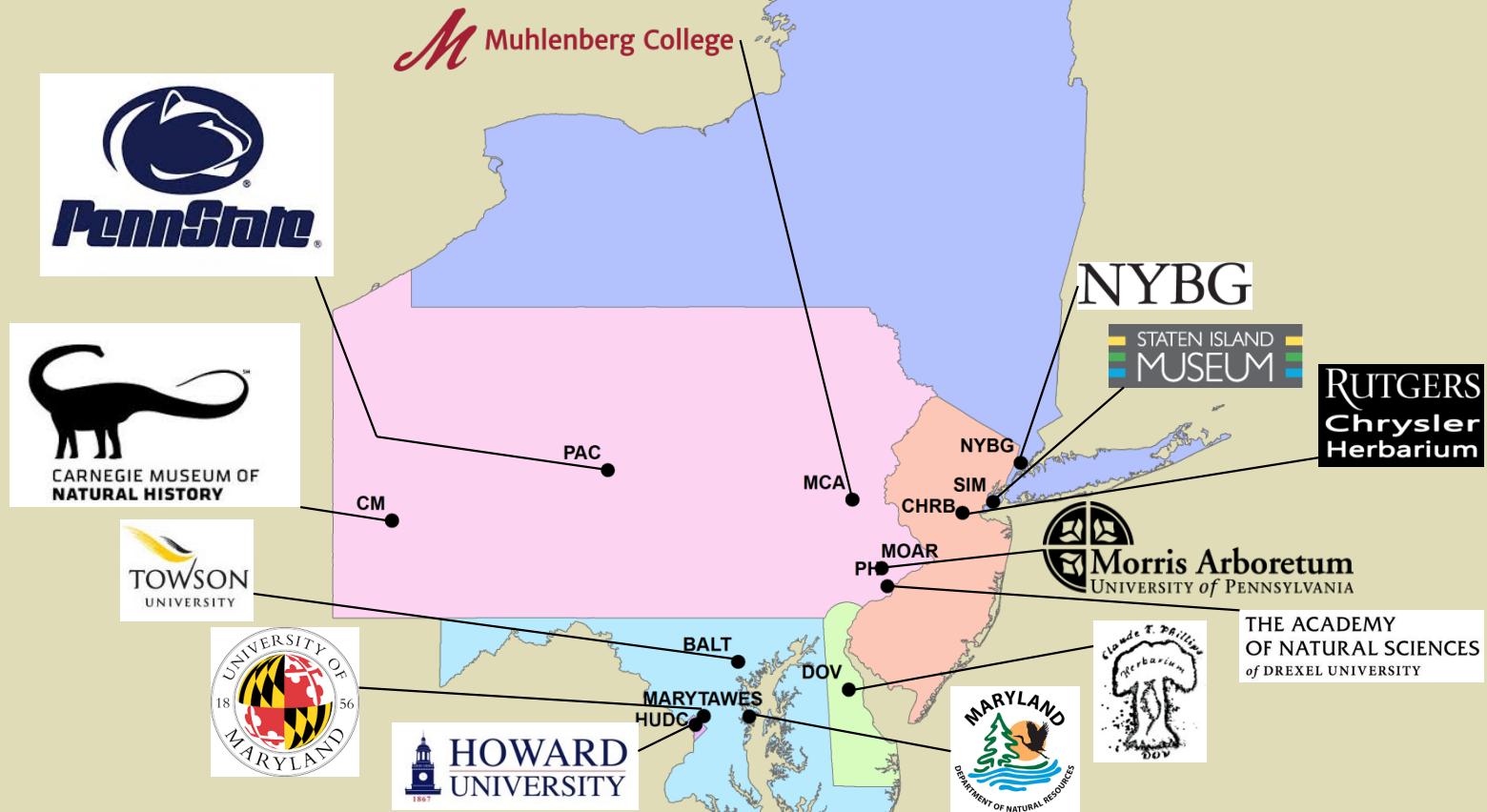
MID-ATLANTIC MEGALOPOLIS PROJECT





MID-ATLANTIC MEGALOPOLIS PROJECT

13 institutions, ~ 1 million specimens



Achieving a greater scientific understanding of our urban areas, one plant specimen at a time.



PROGRESS TO DATE: YEAR 3

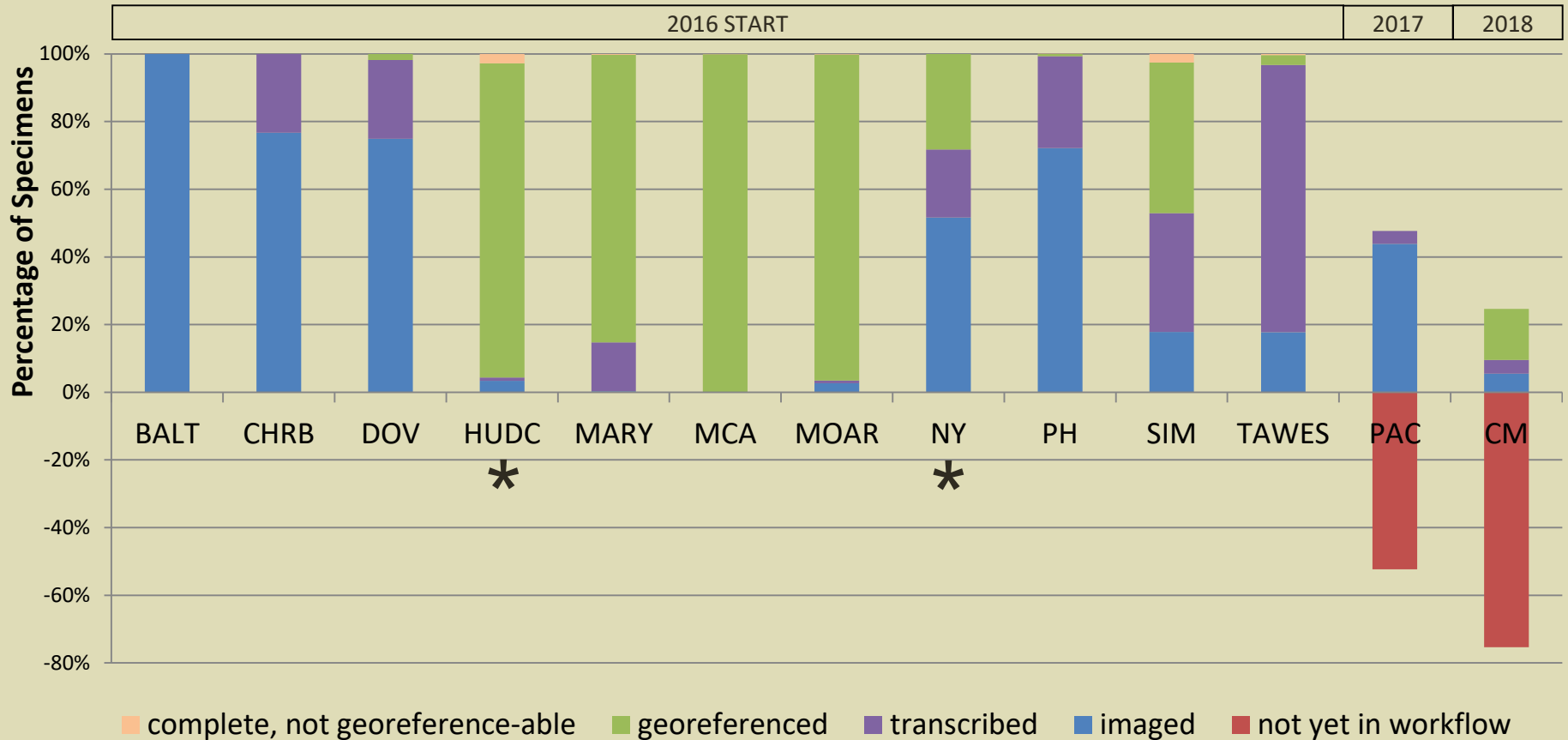
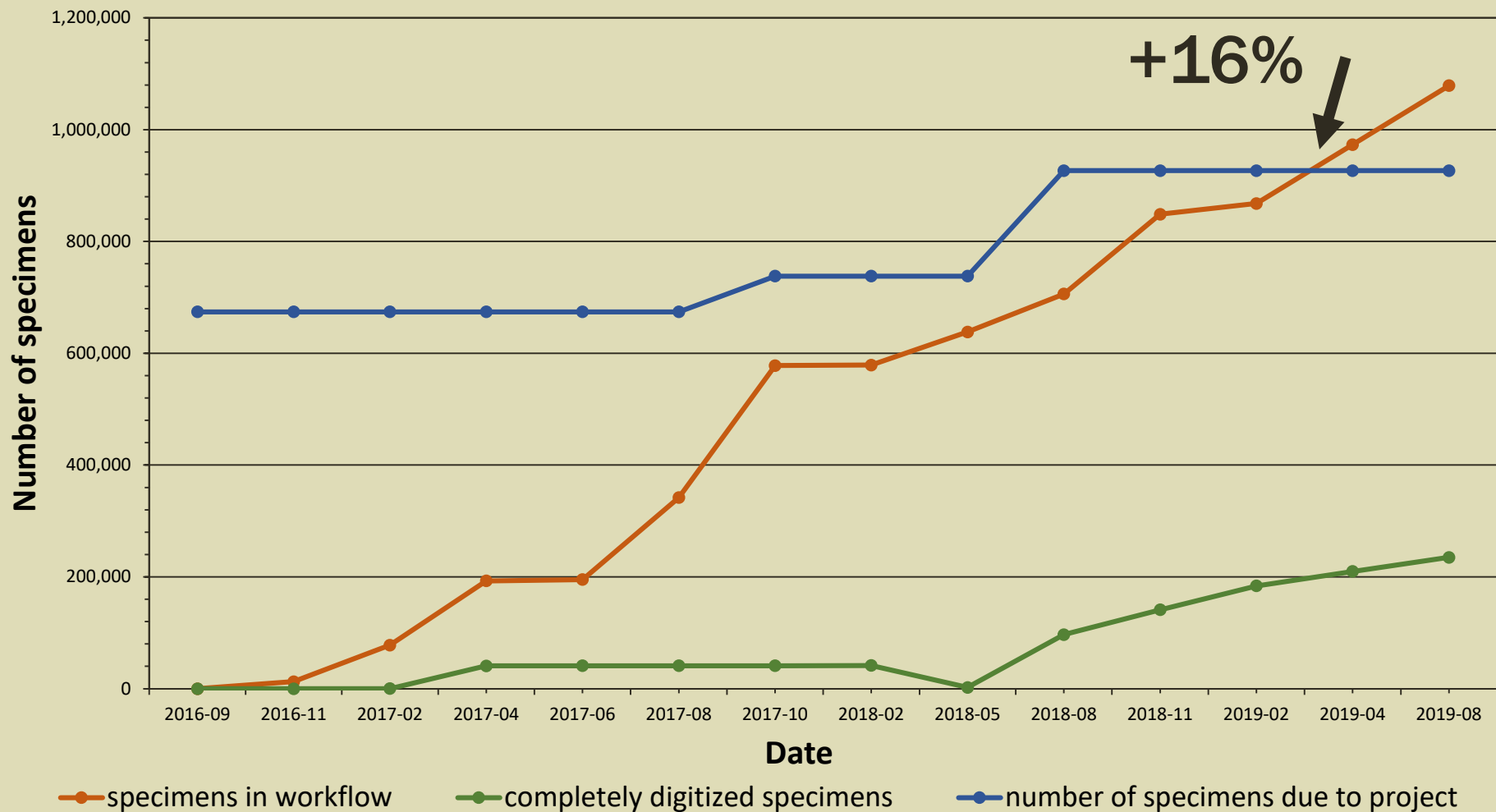


image → transcribe → georeference



PROGRESS TO DATE: YEAR 3



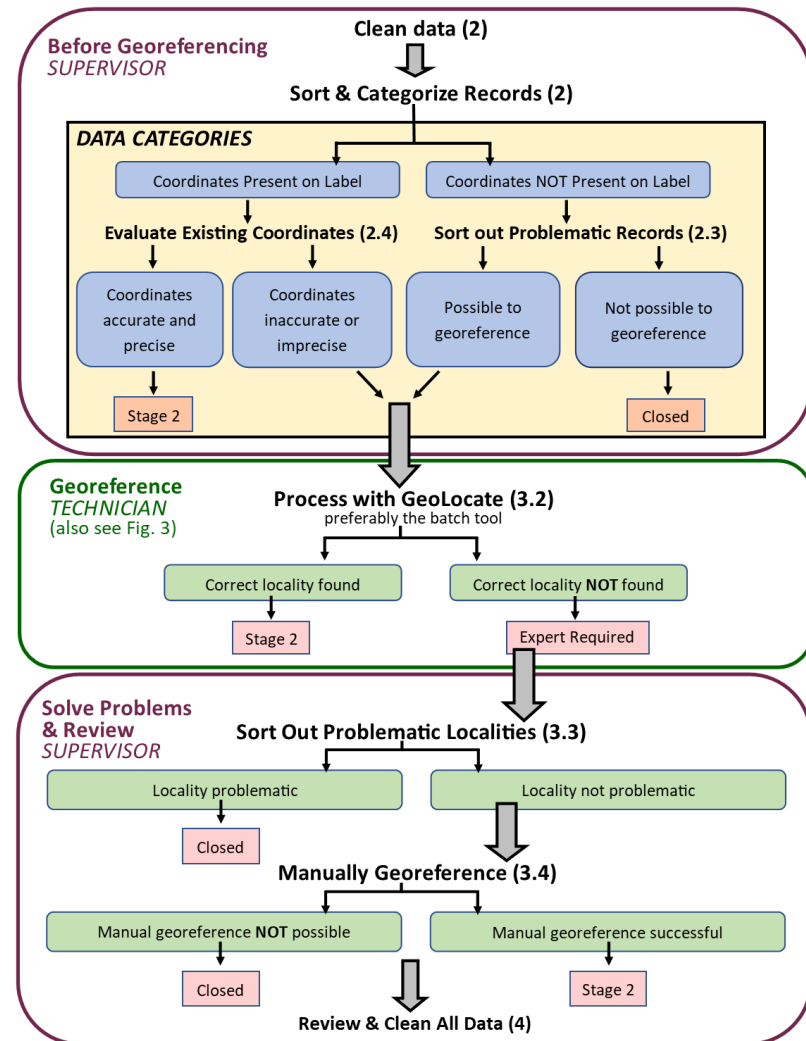


VOLUNTEER TRANSCRIPTION TRAINING VIDEO



GEOREFERENCING GUIDELINES

- standardize the approach to georeferencing for MAM
- help organize georeferencing efforts more efficiently in Symbiota using GeoLocate
- tips for georeferencing newbies





IMPROVING IMAGING: FINE FOCUS PROTOCOL

Focus

Focus

Focus





IMPROVING IMAGING: FINE FOCUS PROTOCOL

- a procedure to improve focus quality in herbarium specimen imaging with Canon cameras
- use standard text target and numeric value to manually focus lens to optimal focus quality → then image batch!



Results							
File Edit Font Results							
Nr	Image	Min	Max	Mean	S-Dev	Mass	L1
1	temp.tif edges	0	42.451	1.293	2.786	1.927E7	1.927E7



mamdigitization.org

MID-ATLANTIC MEGALOPOLIS

THE PROJECT

PARTICIPANTS

VOLUNTEER

EVENTS

NEWS & REPORTING

RESOURCES

MAM Work Queue

MAM Data Portal



RESOURCES

MAM GEOREFERENCING GUIDELINES

by Michelle Mancini, Anne Barber, Timothy A. Block and C. Skema

PDFs:

[Georeferencing Guidelines, April 2019](#)

MAM Transcription Training Video [here](#).

FINE FOCUS

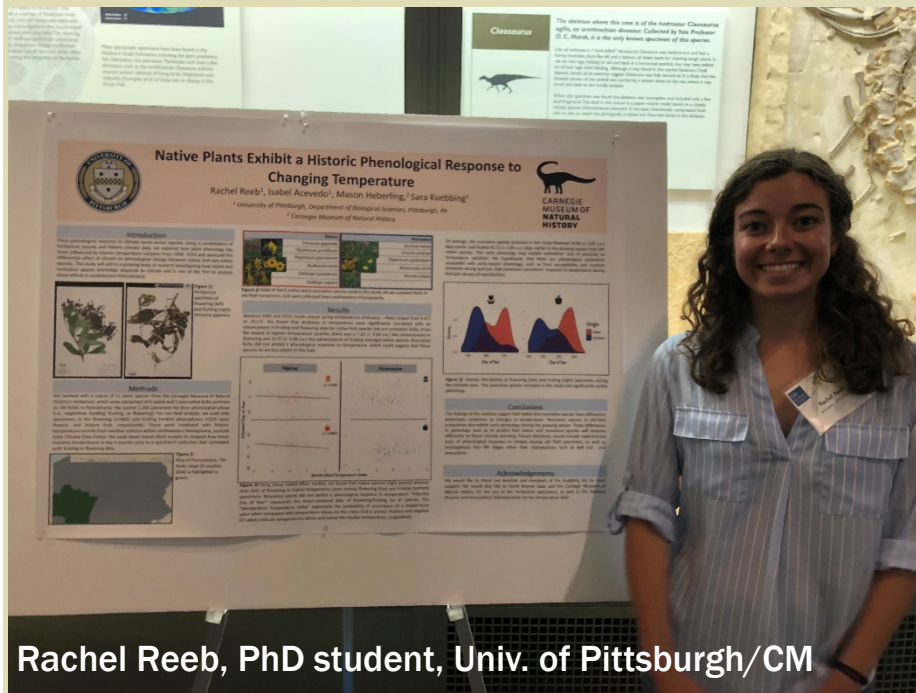
by C. Skema, Anne Barber, and T. Block

Fine Focus is a method we developed to 1) provide a means for obtaining an objective numeric value that corresponds to focus quality, and 2) to improve focus quality in certain circumstances. You can download the software and a step-by-step instructional guide [here](#) (Box link) or [here](#) (google drive link). Please contact us with any questions you may have regarding its use.

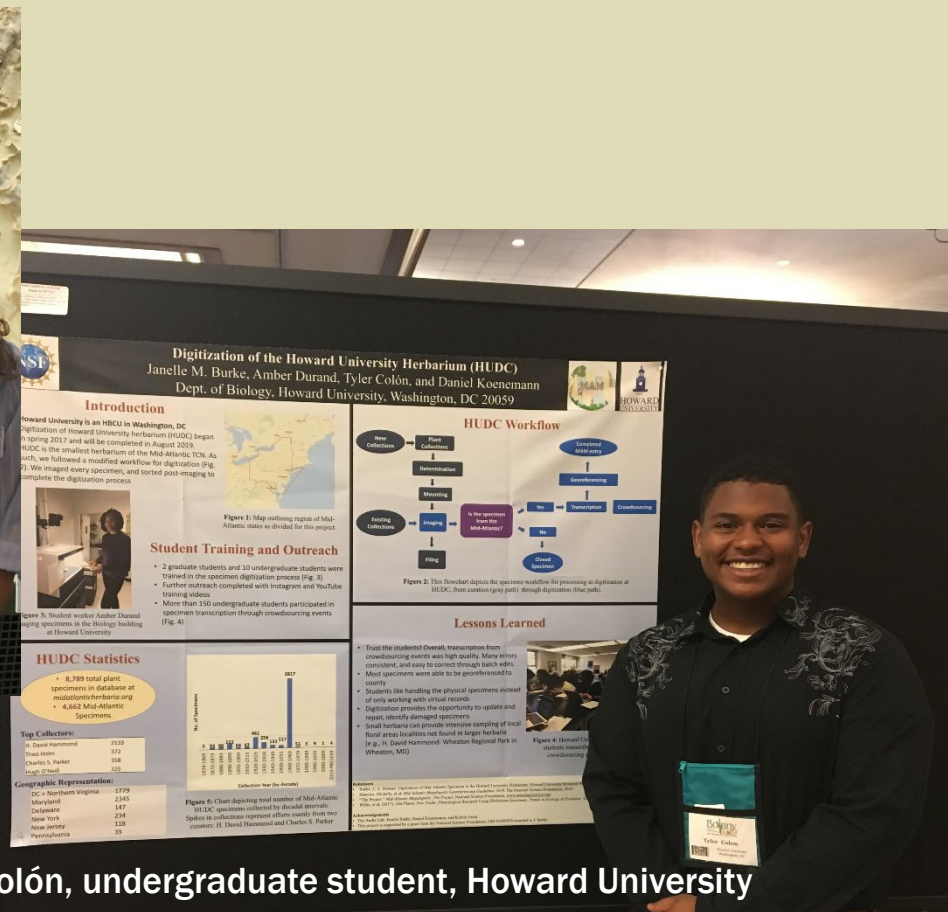


RESEARCH BEGINS...

- 1 peer-reviewed paper, 14 presentations at conferences



Rachel Reeb, PhD student, Univ. of Pittsburgh/CM



Tyler Colón, undergraduate student, Howard University



“PLANTS IN THE CITY” EVENT

- Year 3 workshop/symposium/conference at Rutgers University





**Thank you!
... Questions?**

Email midatlanticherbaria@gmail.com