

Unleashing the power of biodiversity data with data science

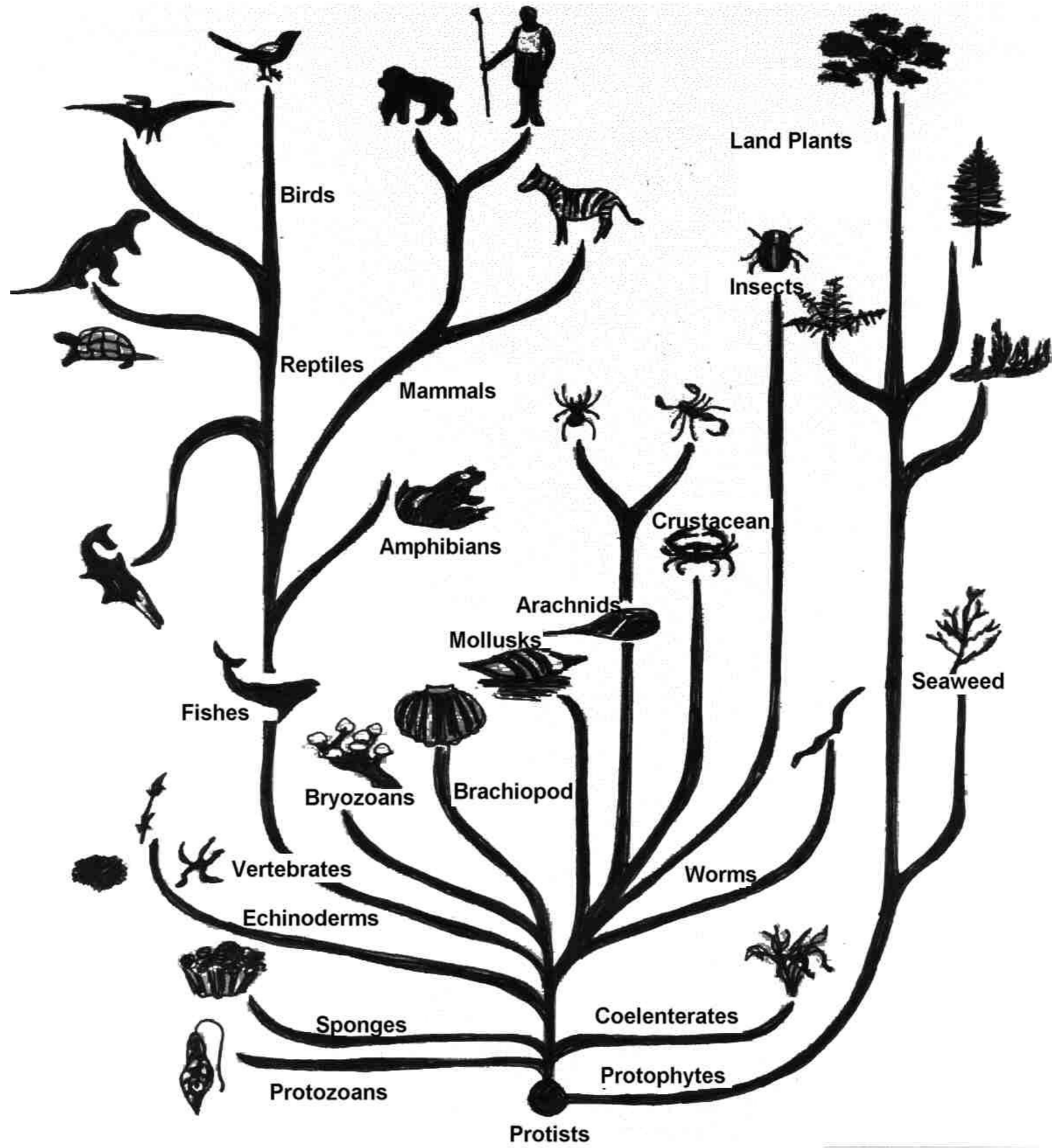
R-Ladies
June 2019

Ciera Martinez, PhD



Website

bit.ly/rladies_biodiversity

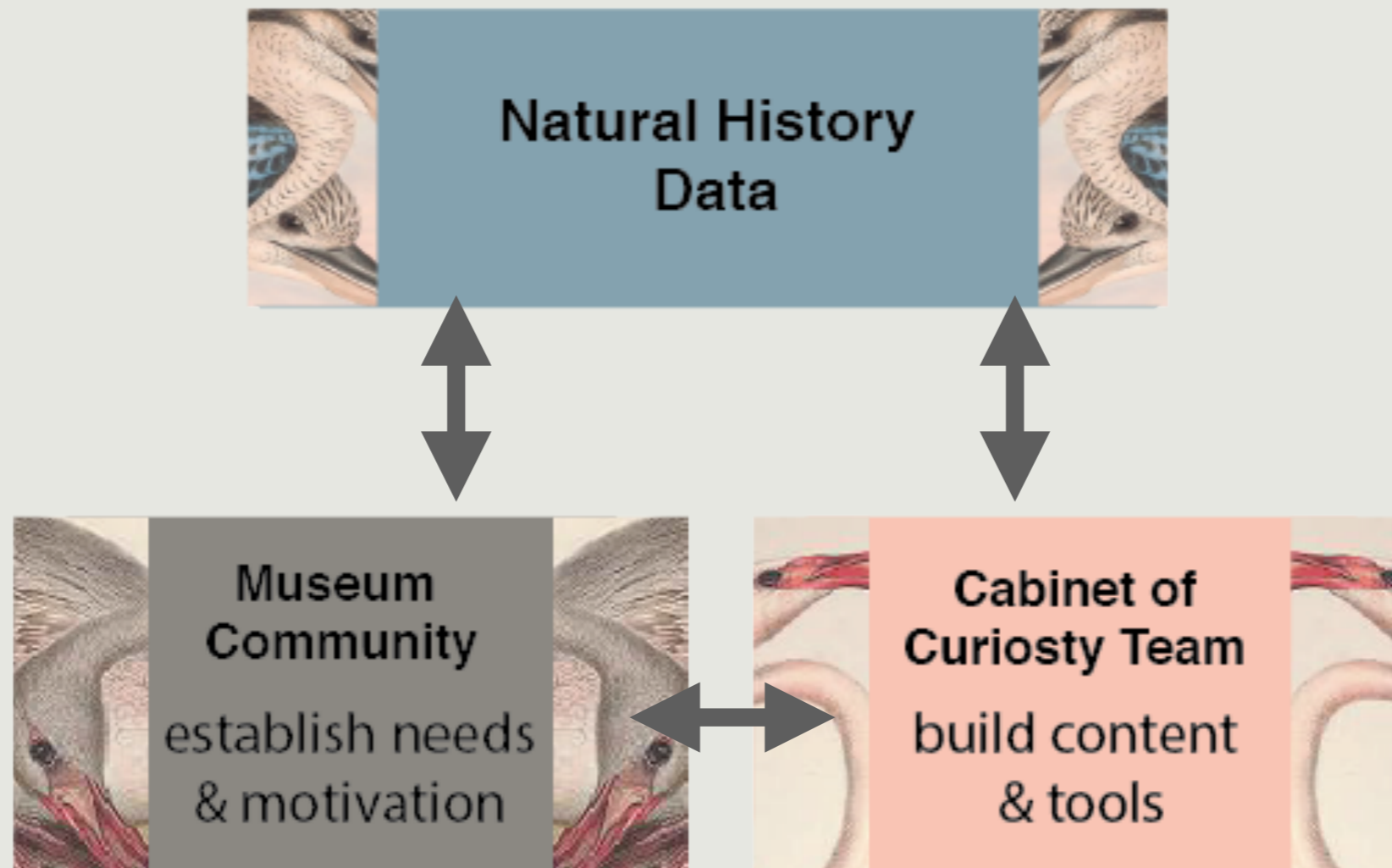






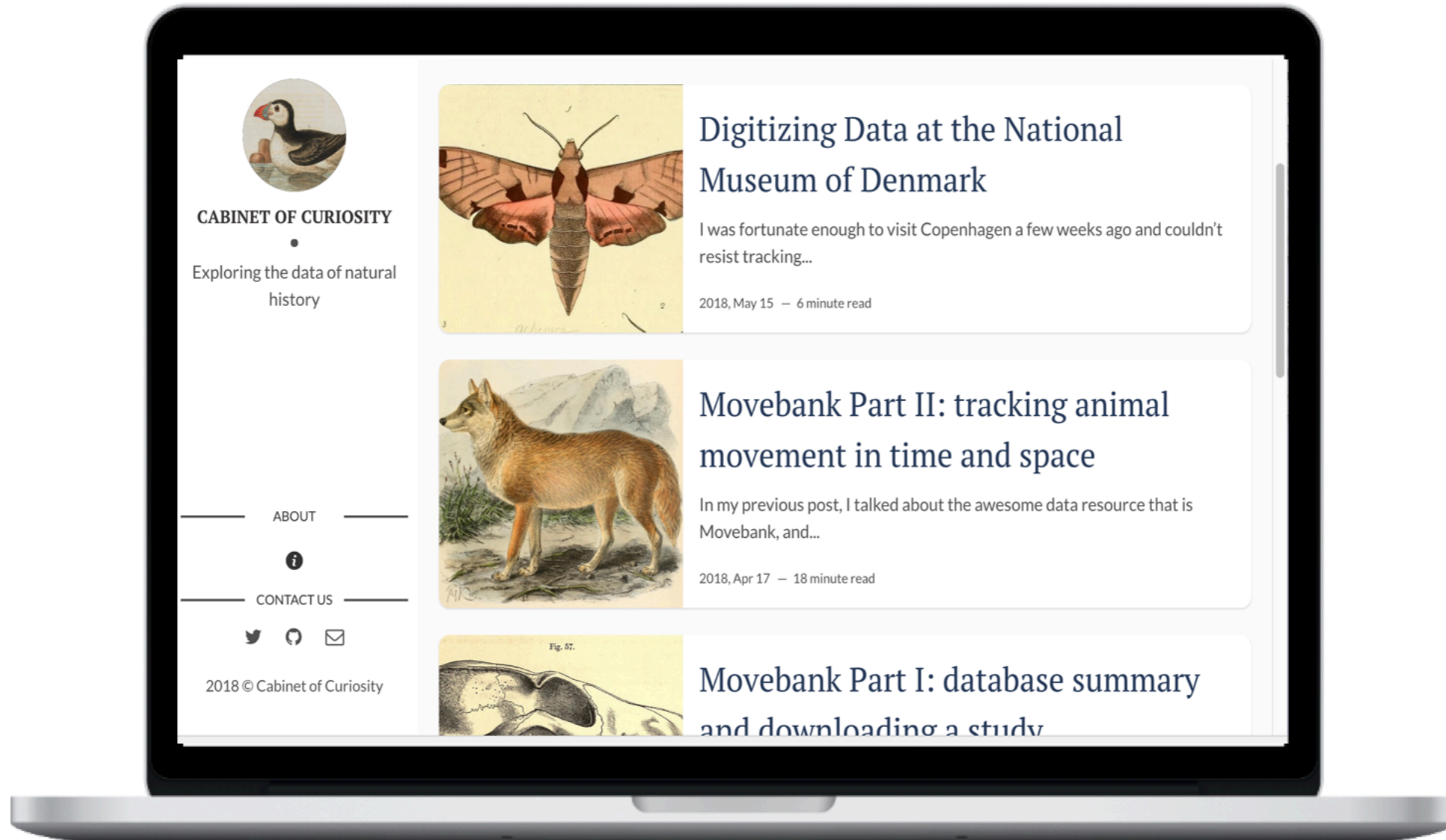
Mozilla Project Goals

1. Empower programmers to build tools to help researchers use data.
2. Create tutorials, curriculum, and data standards for Natural History Data community and classrooms.
3. Reinforce and support continuation and sustainability of digitization efforts.



Cabinet of Curiosity

Exploring the data of natural history



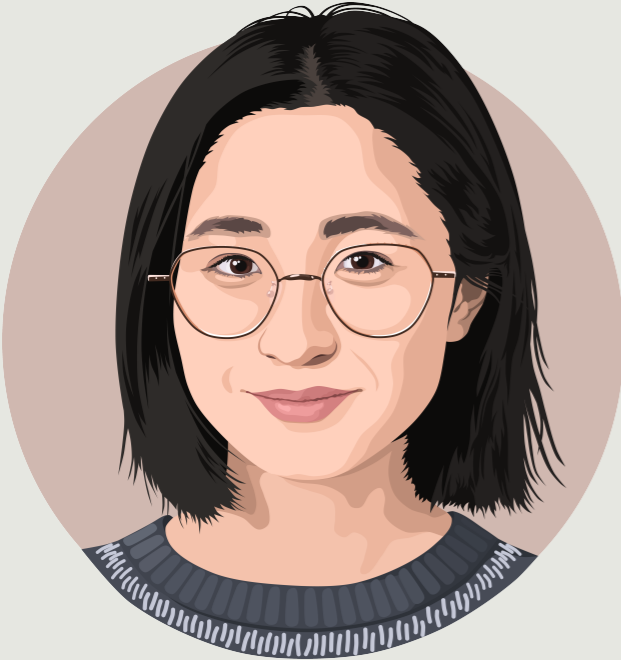
curiositydata.org/



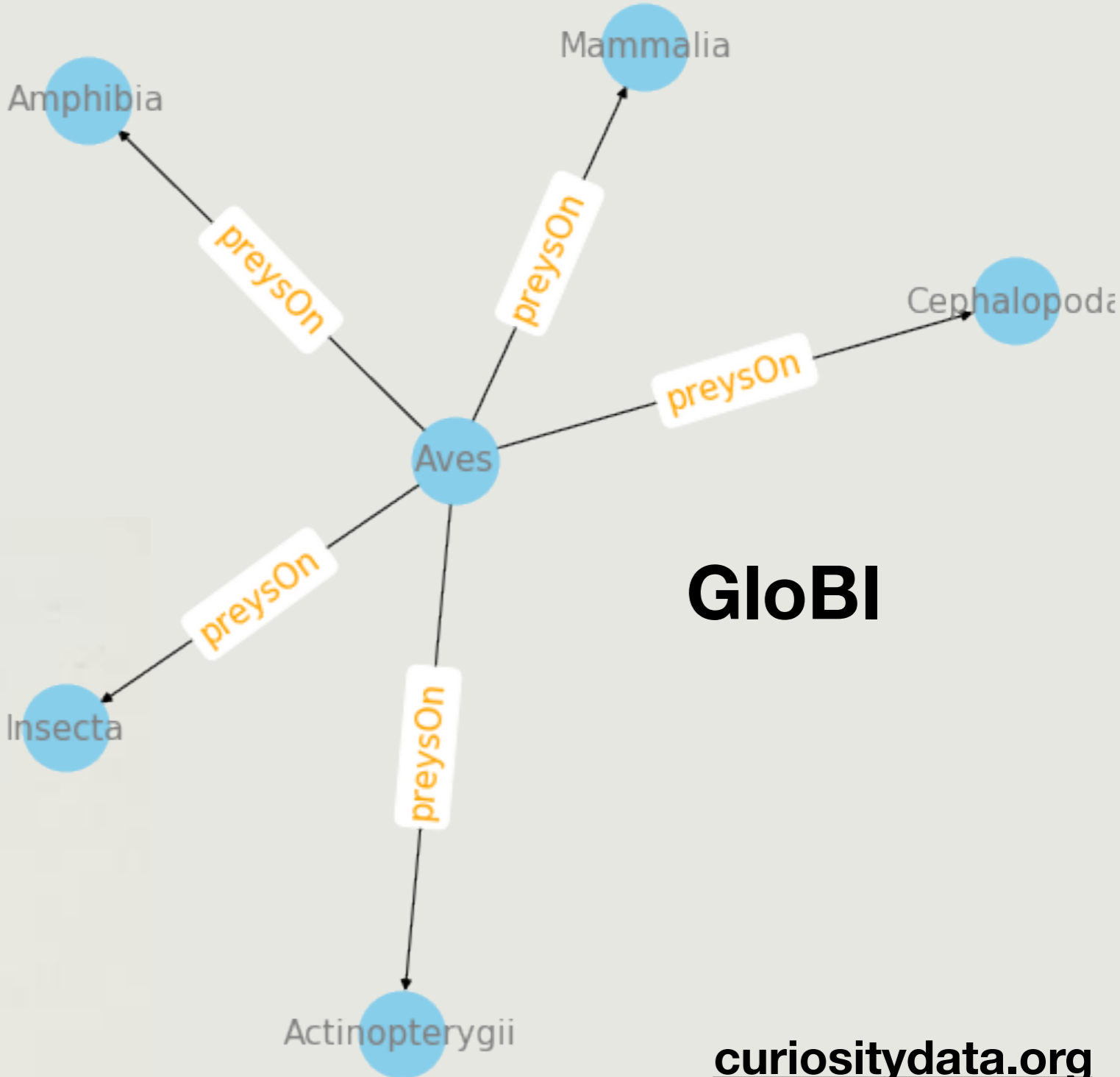
BERKELEY INSTITUTE
FOR DATA SCIENCE



Ask how animals interact with network graph visualization



Yikang Li

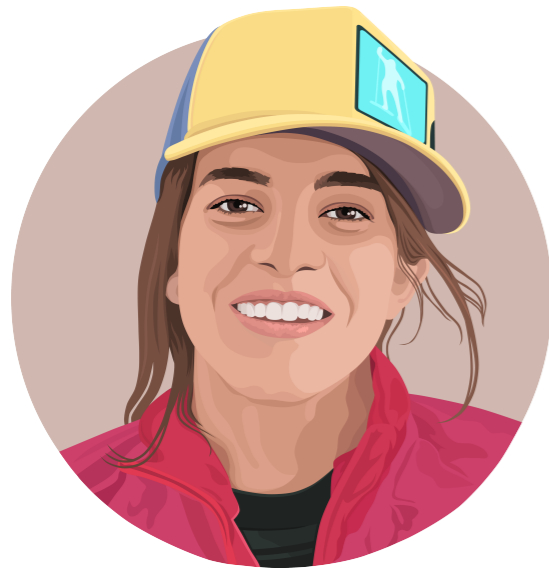


GloBI



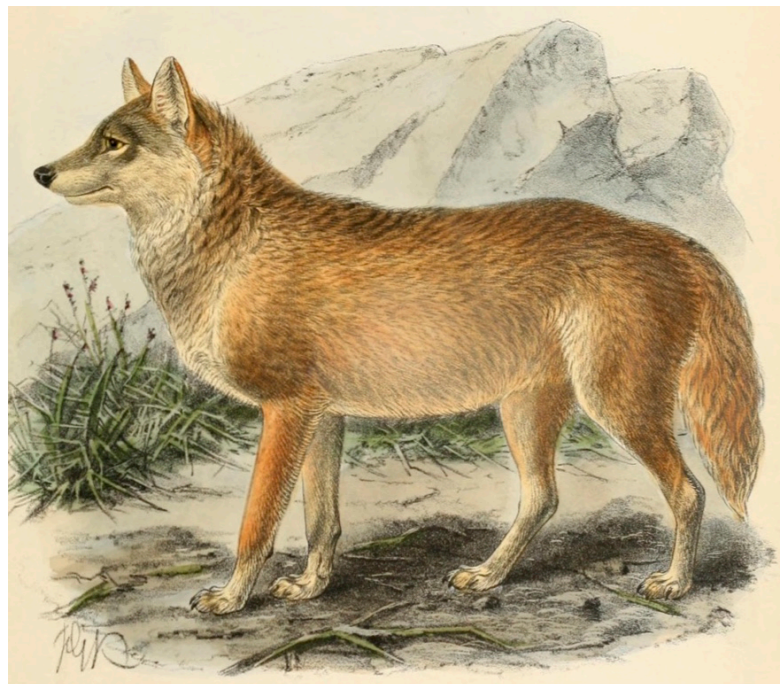
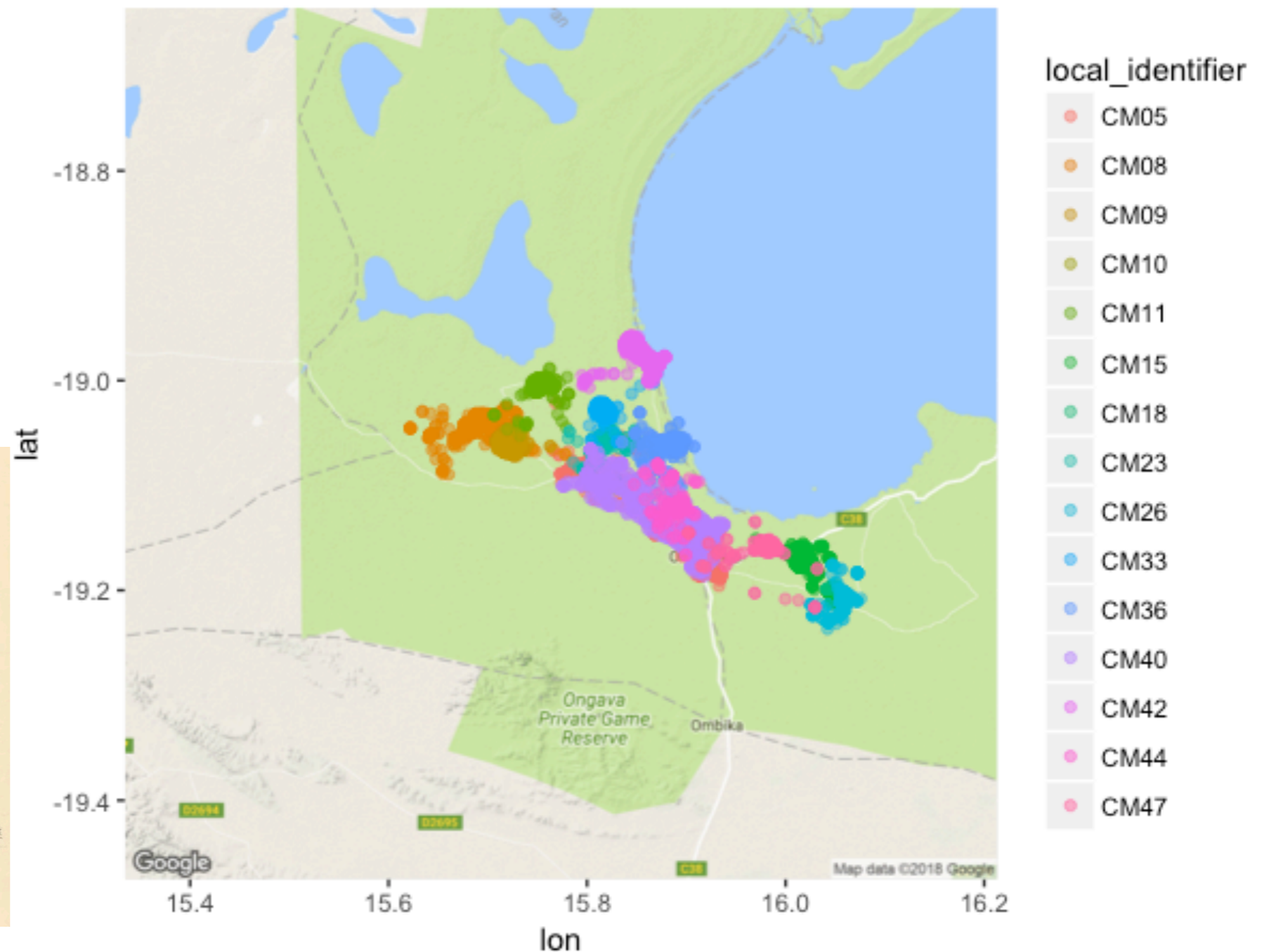
Tracking animal movement in time and space

MoveBank

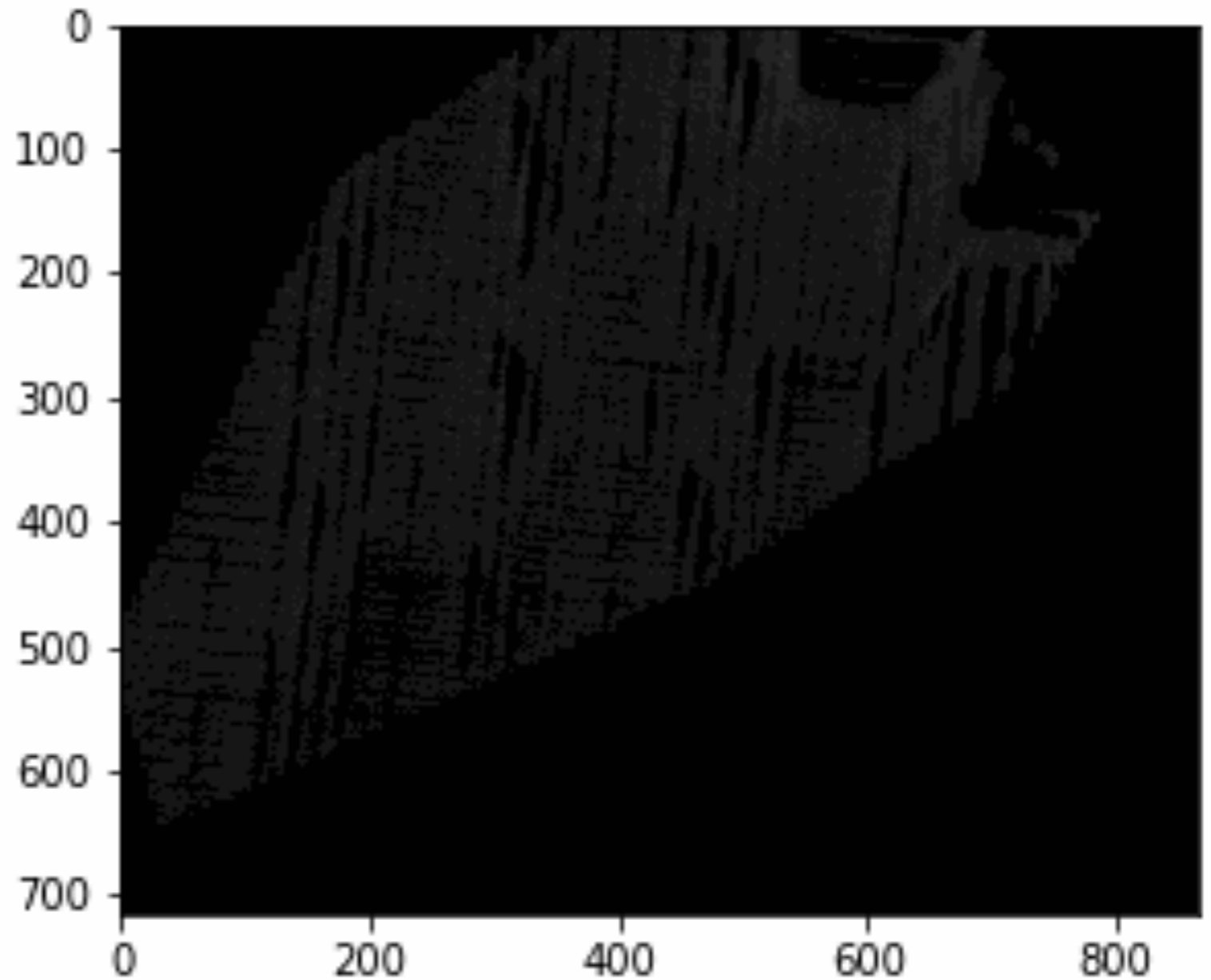
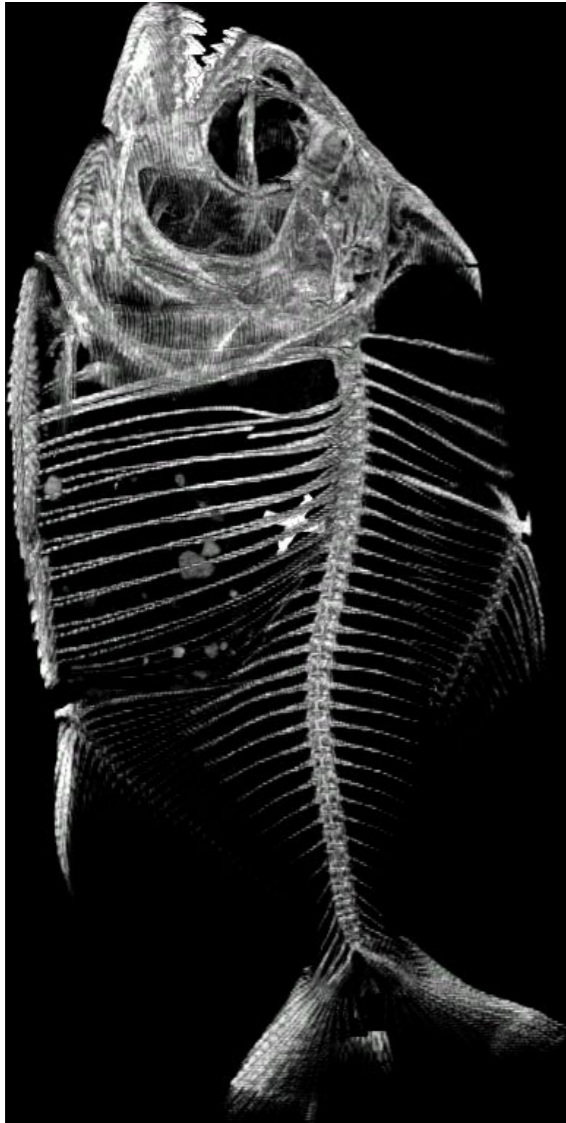


Caryn Johansen

Jackals in April 2009



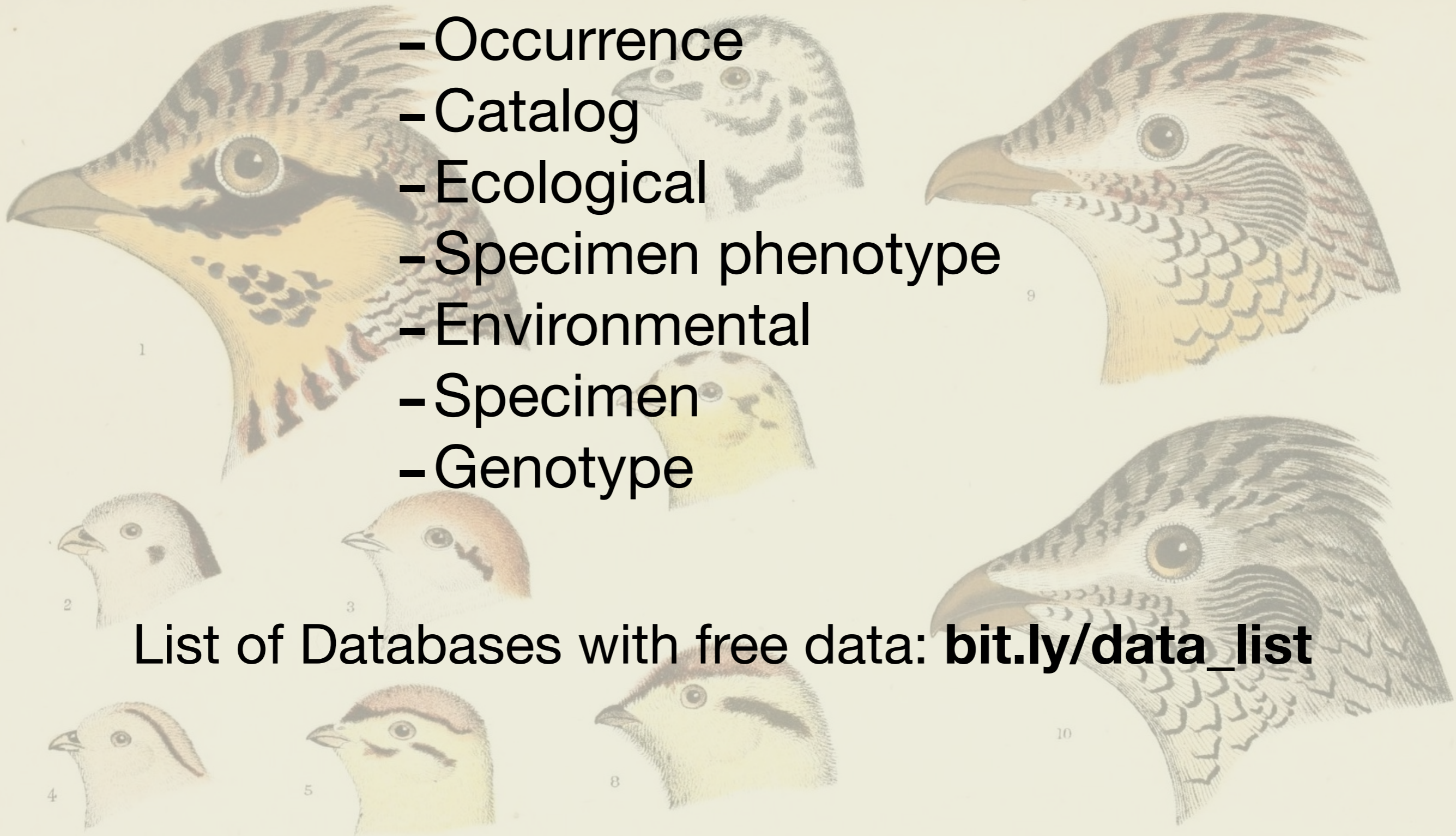
Soon: Explore 3D animal skeletons using Python Morphosource

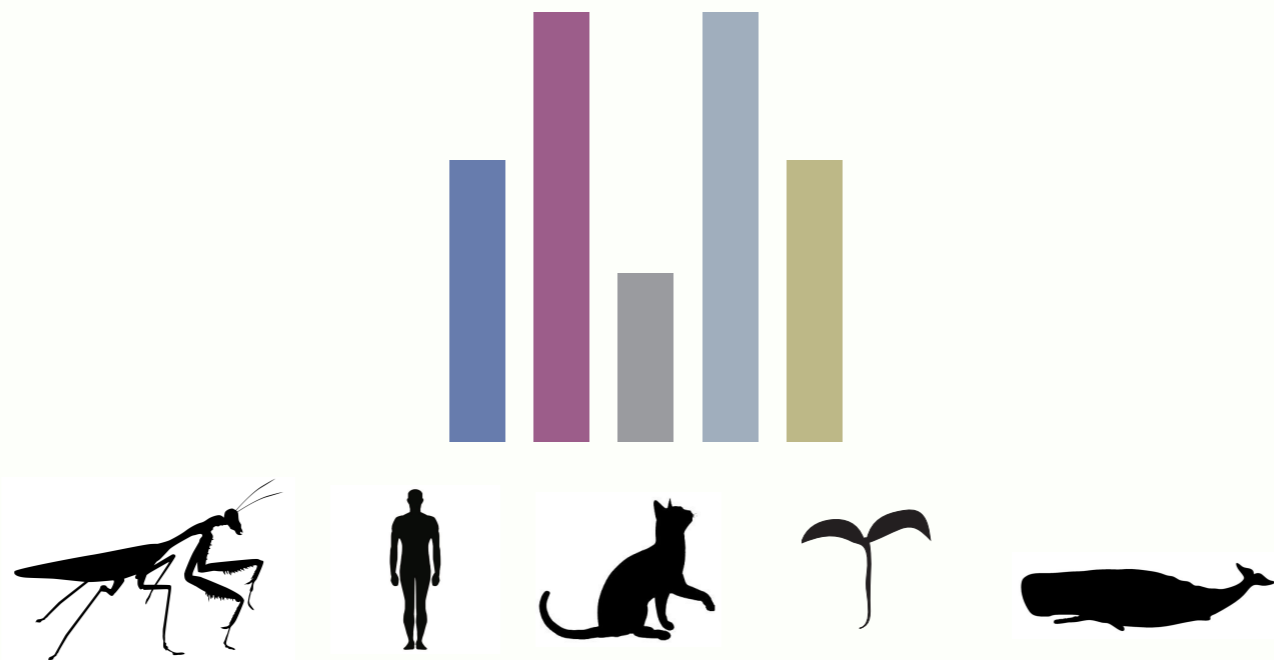


Other data

- Occurrence
- Catalog
- Ecological
- Specimen phenotype
- Environmental
- Specimen
- Genotype

List of Databases with free data: bit.ly/data_list





Find me at



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cieramartinez.org

Mozilla project

curiositydata.org

mozillasciencefellows.org

How to contribute: bit.ly/coc_homebase

Website

bit.ly/rladies_biodiversity