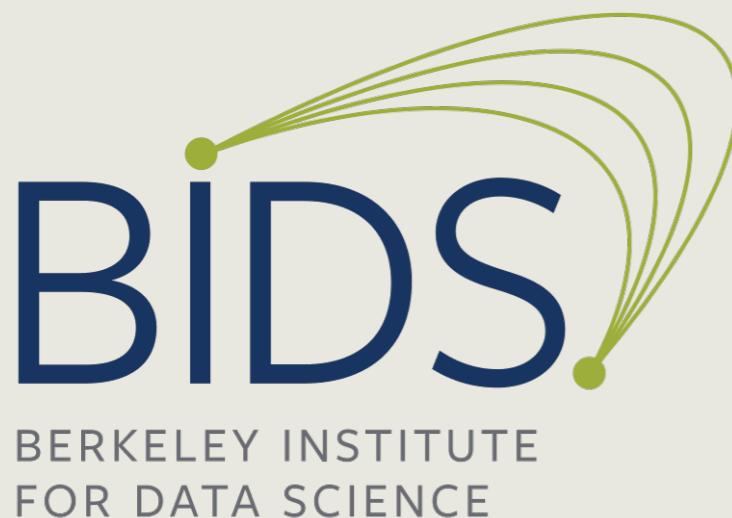


# Unleashing the power of biodiversity data with data science

R-Ladies  
June 2019

Ciera Martinez, PhD

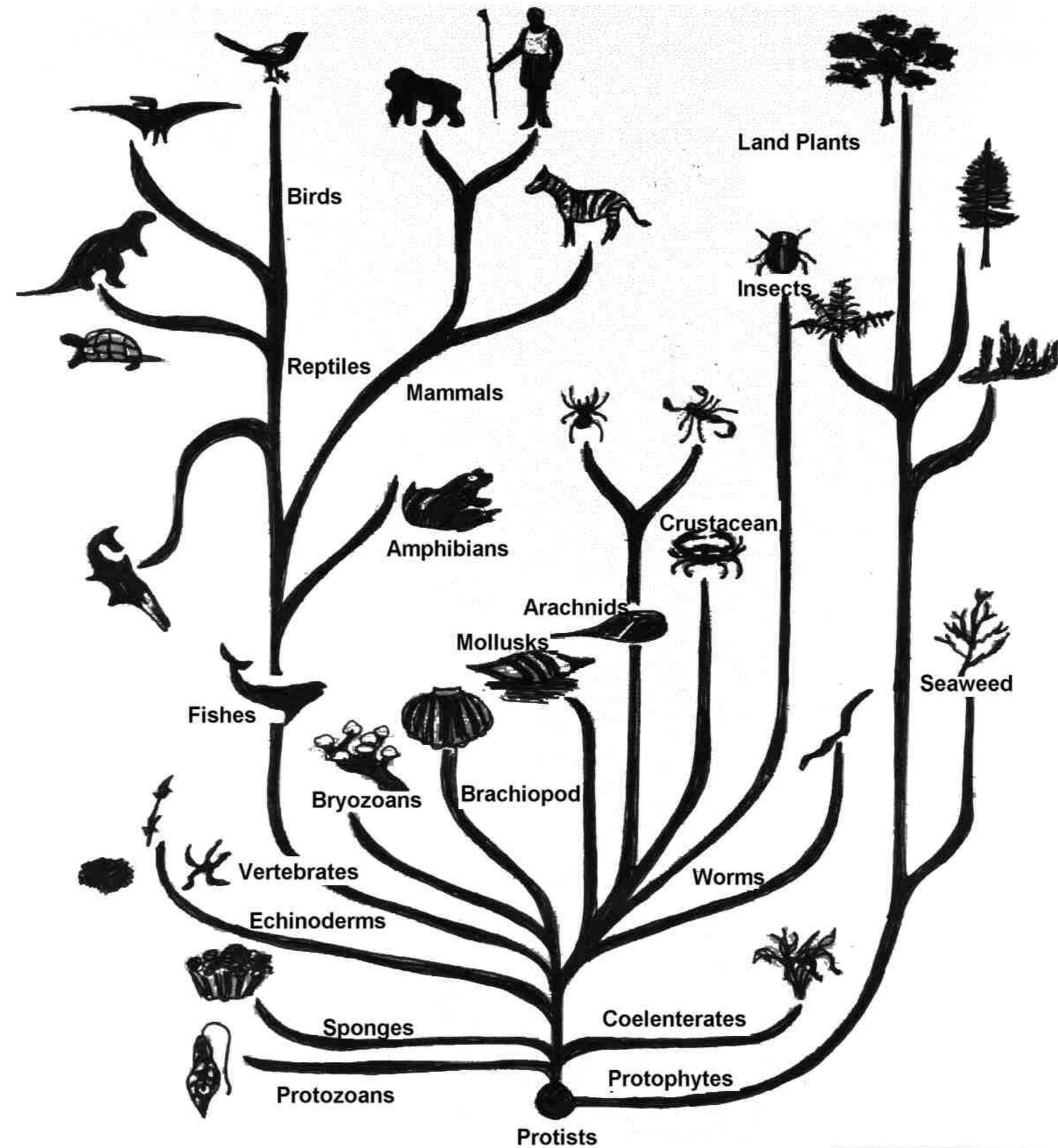


BERKELEY INSTITUTE  
FOR DATA SCIENCE



# Website

**[bit.ly/r ladies\\_biodiversity](https://bit.ly/r ladies_biodiversity)**

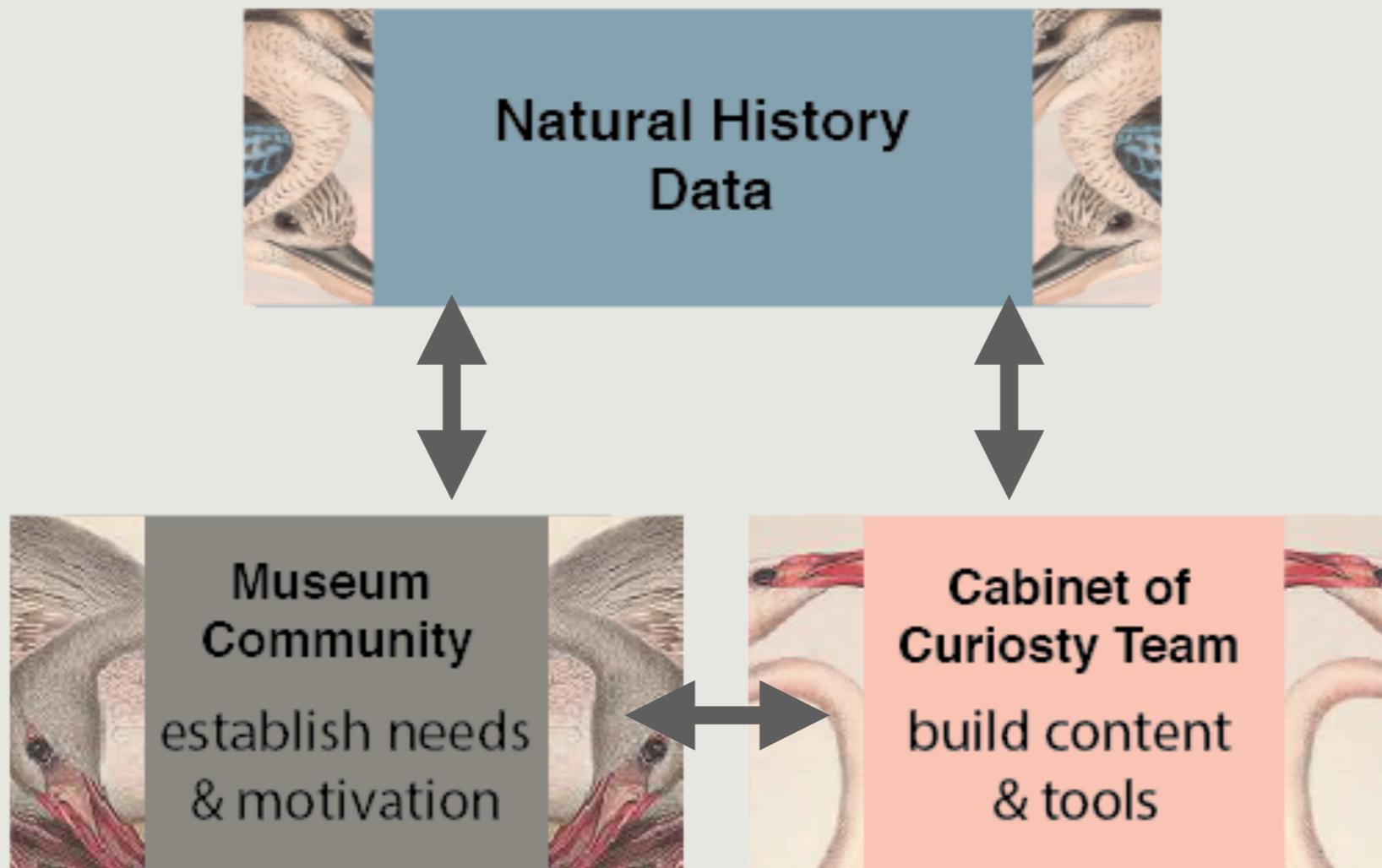






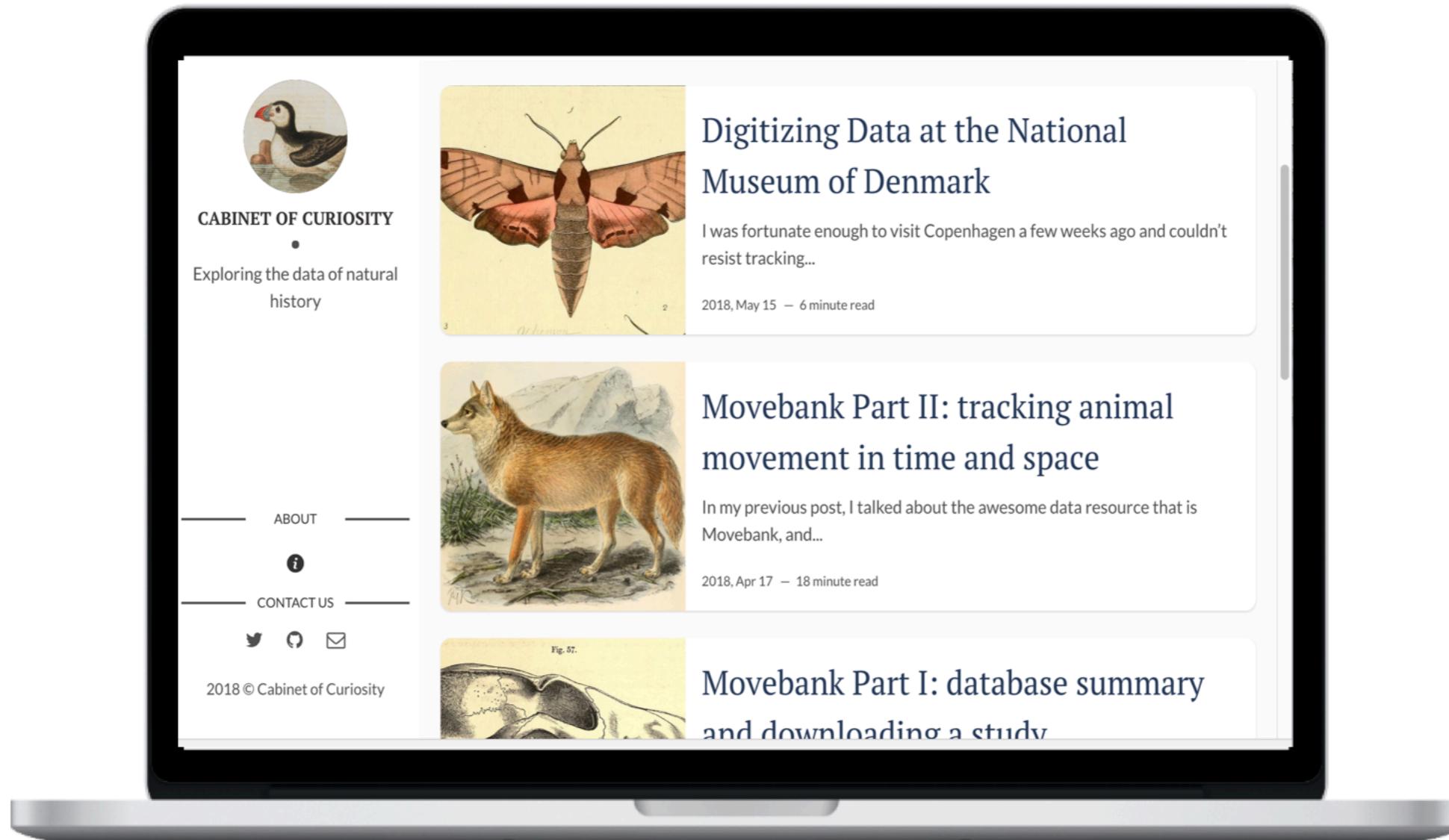
# Mozilla Project Goals

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

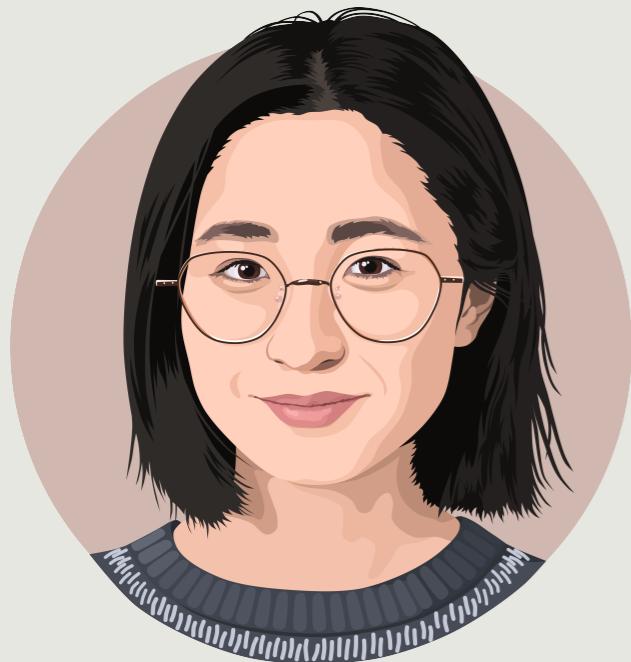
## Exploring the data of natural history



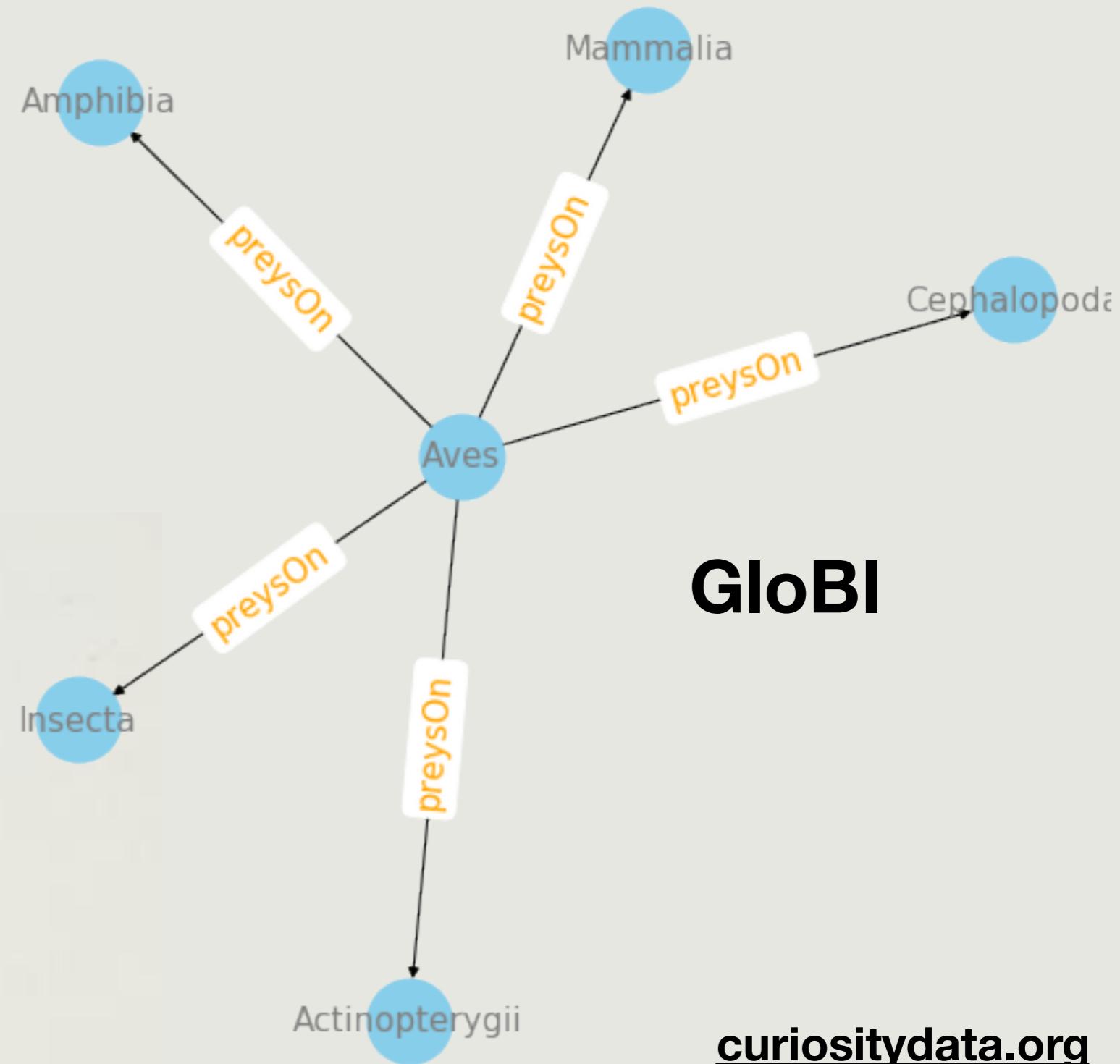
[curiositydata.org/](http://curiositydata.org/)



# Ask how animals interact with network graph visualization



**Yikang Li**



**GloBI**

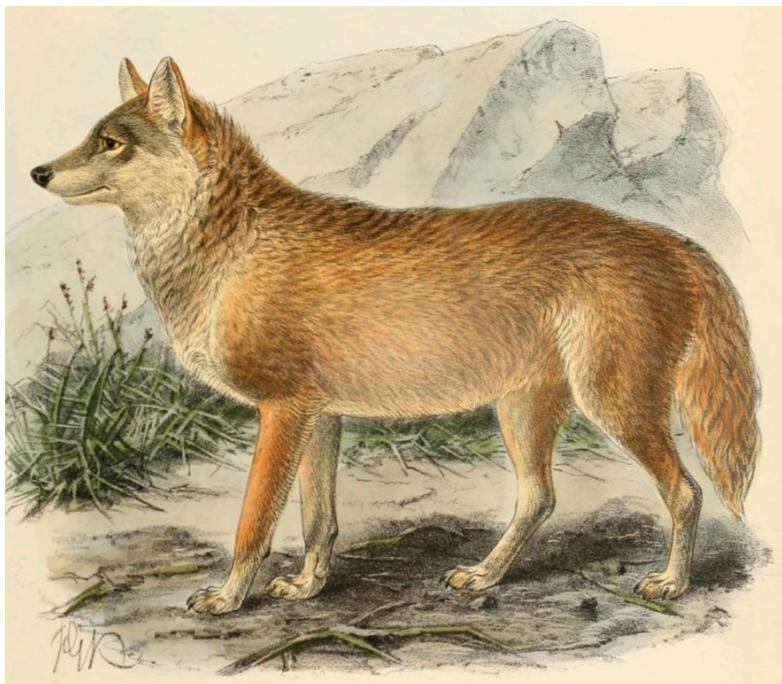
[curiositydata.org](http://curiositydata.org)

# Tracking animal movement in time and space

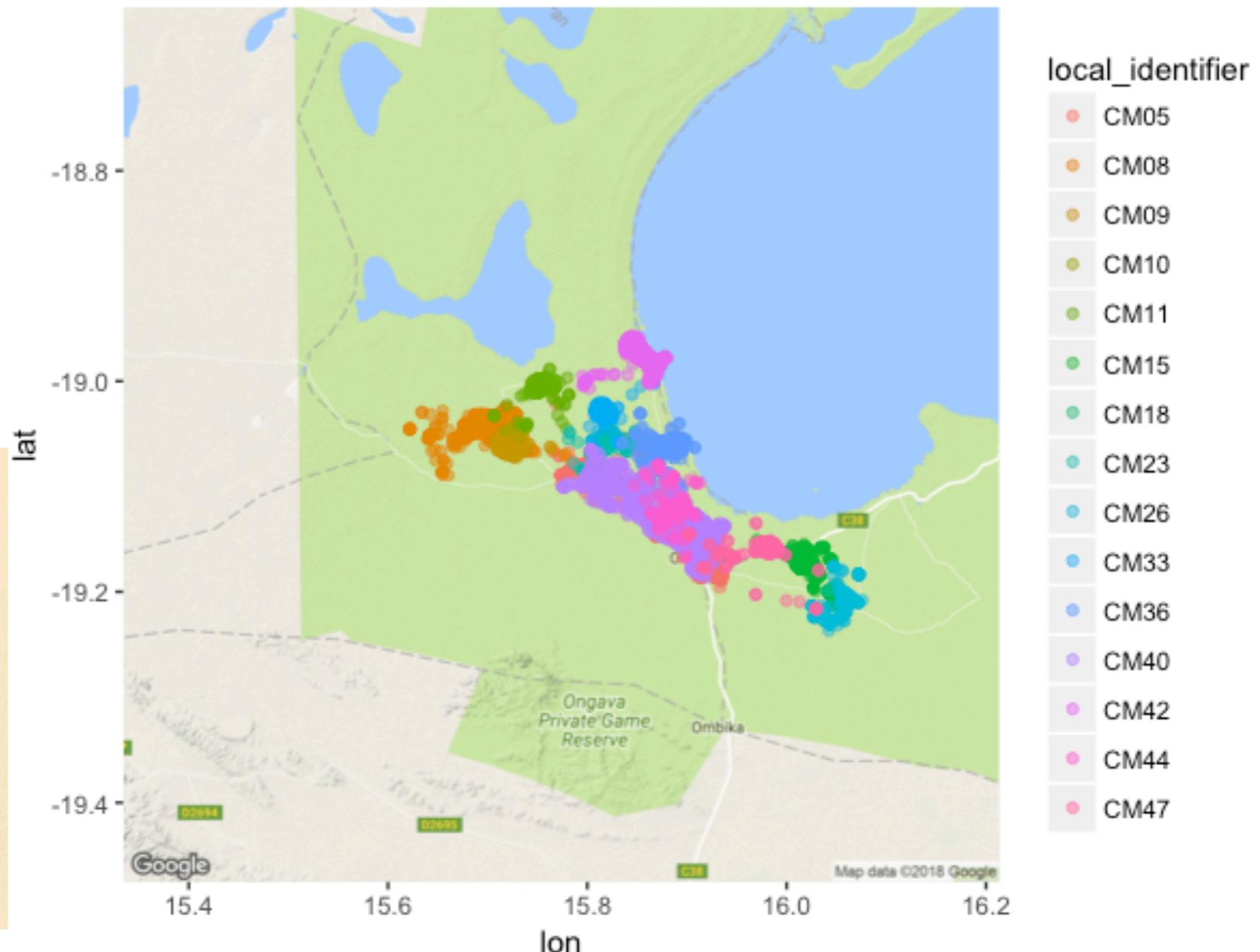
## MoveBank



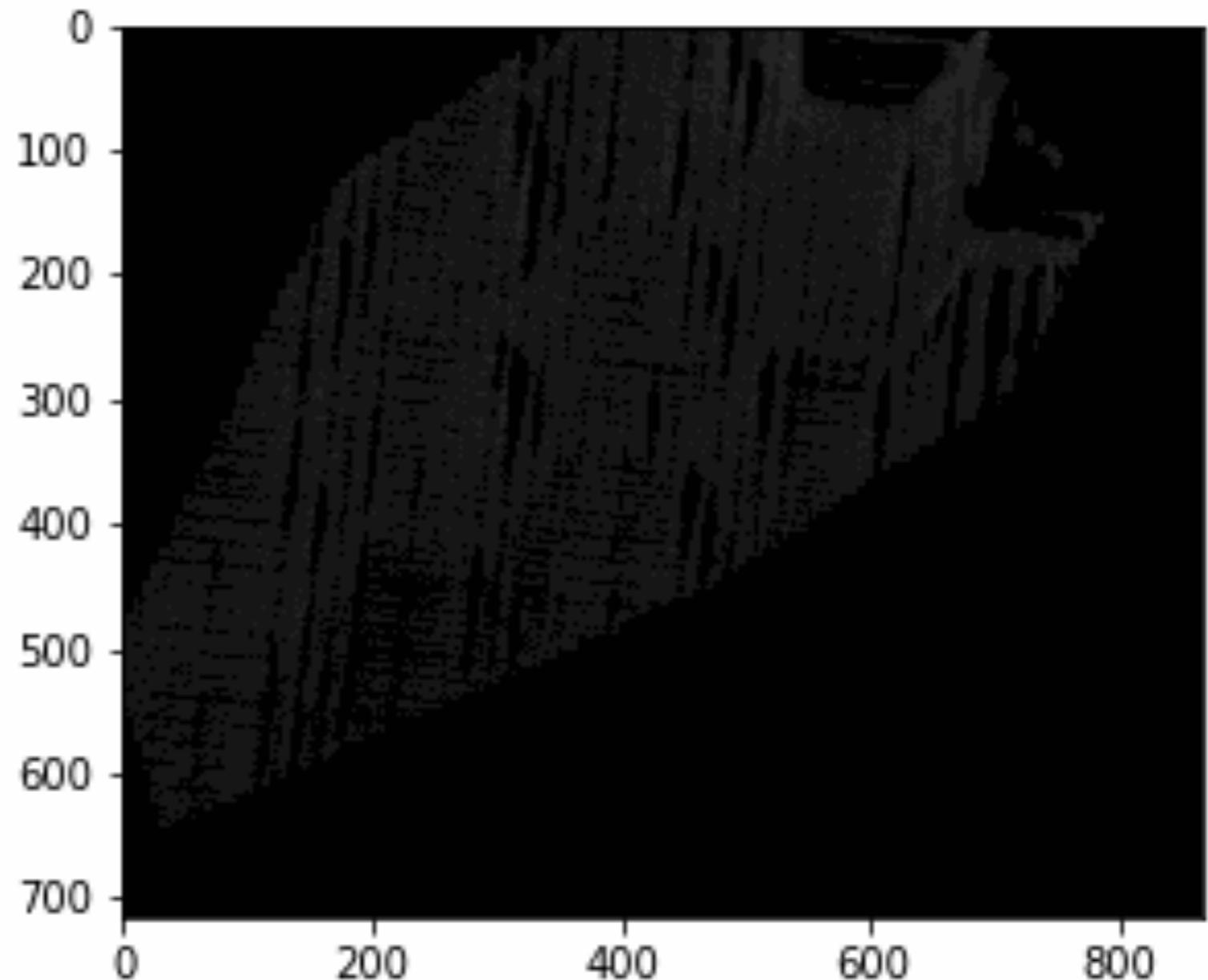
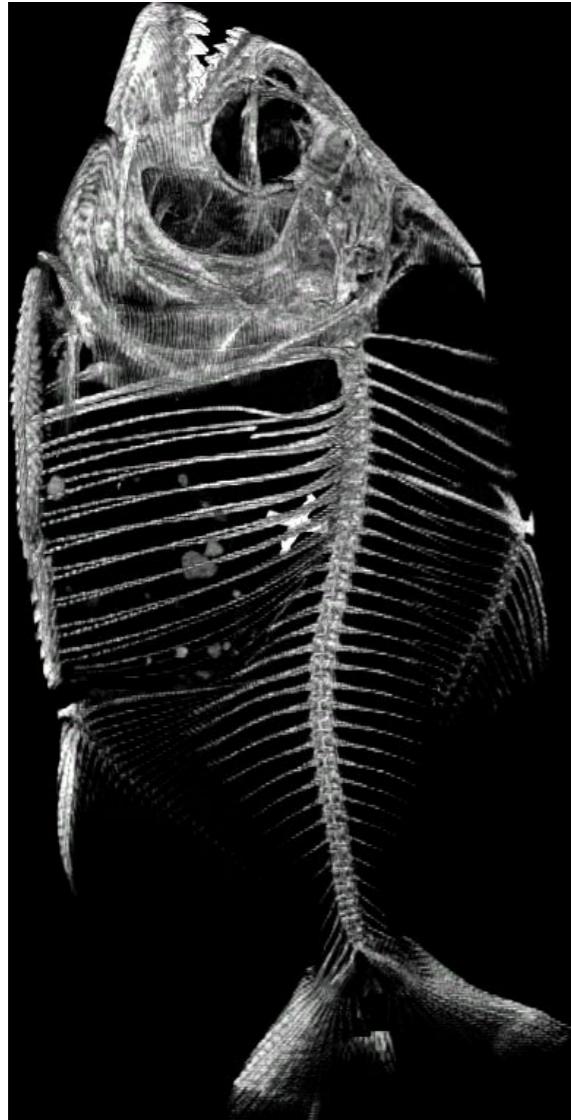
**Caryn Johansen**



Jackals in April 2009



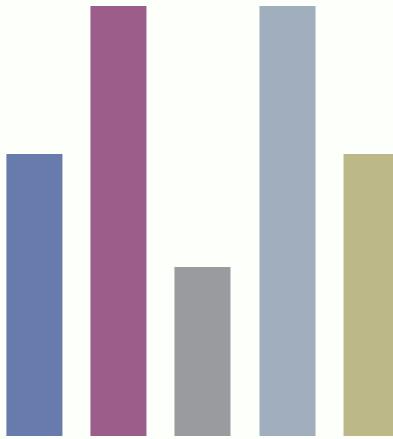
# Soon: Explore 3D animal skeletons using Python Morphosource



# Other data

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

List of Databases with free data: [bit.ly/data\\_list](http://bit.ly/data_list)



Find me at

Mozilla project



@cierareports



@iamciera

cieramartinez.org

curiositydata.org

mozillasciencefellows.org

How to contribute: [bit.ly/coc\\_homebase](https://bit.ly/coc_homebase)

# Website

**[bit.ly/r ladies\\_biodiversity](https://bit.ly/r ladies_biodiversity)**