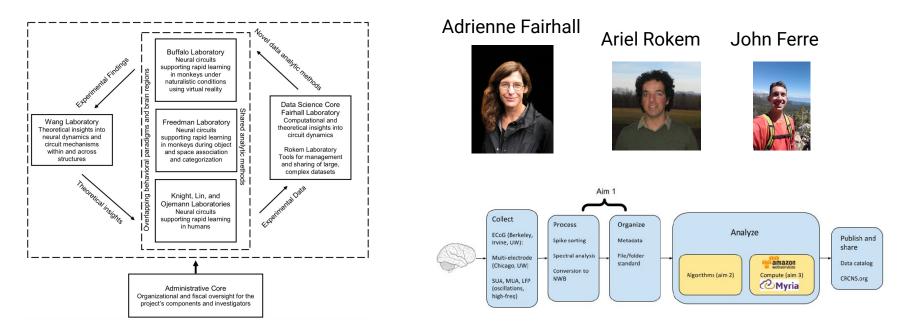
The learning2learn Data Science Core

February 25th, 2020

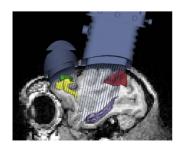


Identify neural mechanisms supporting rapid learning in monkeys and humans.

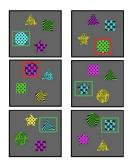
Develop and validate novel techniques for large-scale single unit recordings from multiple brain regions during learning

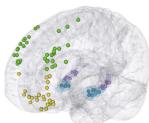
Generate and test a multi-region computational understanding of circuit mechanisms that underlie rapid learning.

The data









~5-20 TB/week at steady-state

=> ~1-2 PB to store at steady-state

 \sim 10%-20% of that needs to be routinely accessed

Challenges

Computational resources

Statistical methods and algorithms

Integration of different data types

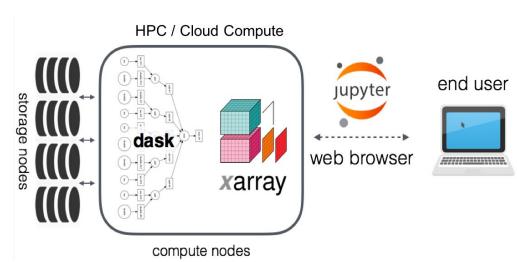
Integration of theory and experiments

Reproducibility and extensibility

PANGEO

A community platform for Big Data Geoscience





PanNeuro

