# Neuroinformatics resources for computational modellers

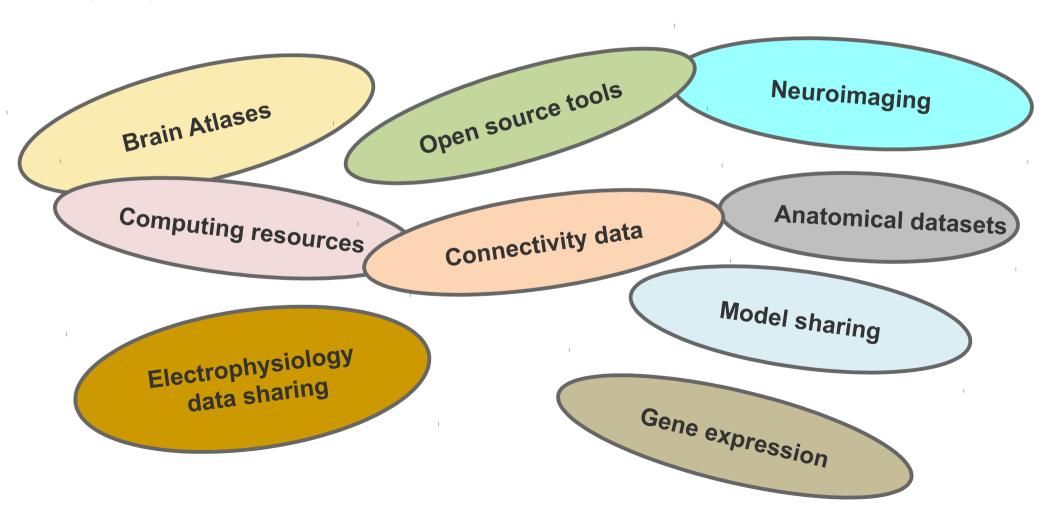


Padraig Gleeson (University College London, UK)
Andrew Davison (CNRS, Gif-sur-Yvette, France) &
https://github.com/NeuralEnsemble/NeuroinformaticsTutorial/blob/master/CONTRIBUTORS.md



#### Introduction

Neuroinformatics (like computational neuroscience, connectomics, etc.) means many different things to different people...



## **Current tutorial**

Focus on neuroinformatics resources which may be of use for those creating and analysing computational models of neuronal systems

## **Topics**

Experimental datasets

Structured data from literature

Analysis tools

Simulation environments

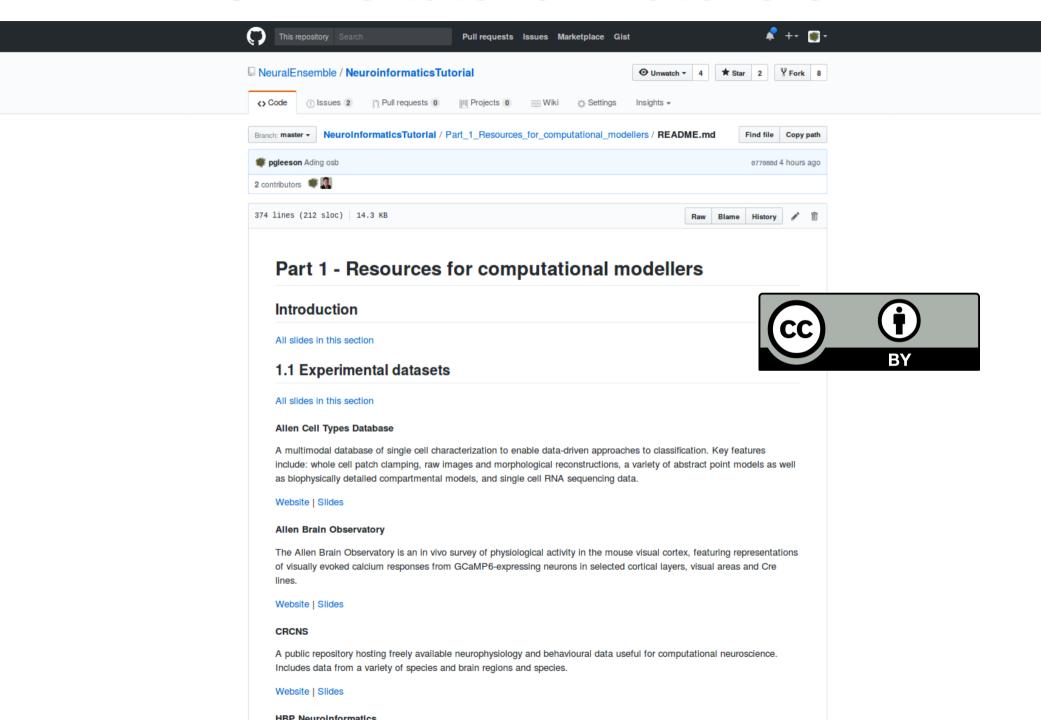
Model sharing

Computing infrastructure

Open source initiatives

Web portals

## Online tutorial materials



## **Exercises**

#### Hands on demonstrations

Human Brain Project Collaboratory

Run Allen Institute cell model on NSG via OSB

Demonstration of Neo/PyNN using Jupyter notebooks

#### **Participant Exercises**

Cell morphology from NeuroMorpho.Org visualised on Open Source Brain

Exploring Brain Circuits with the Fruit Fly Brain Observatory

OpenWorm tutorials