

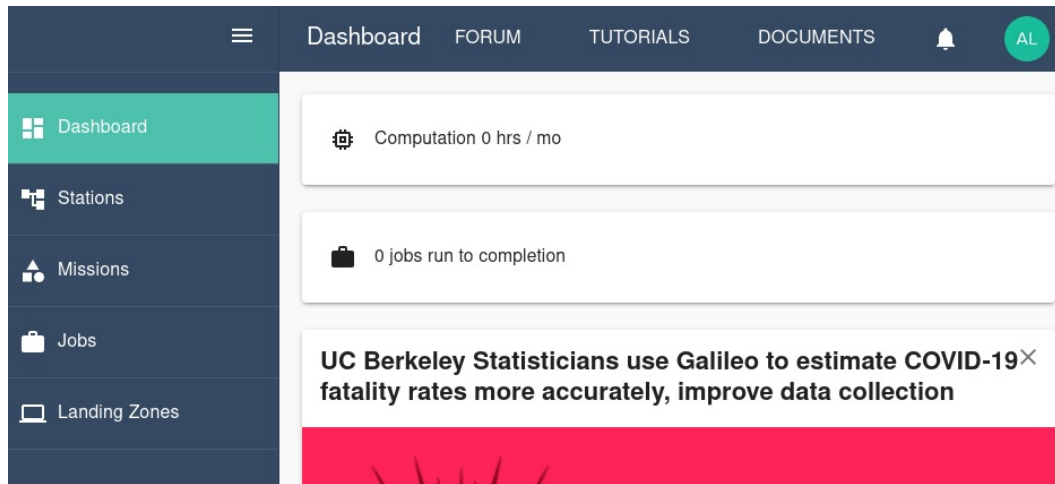
Tutorial: Running MAFFT in Galileo

Getting started with MAFFT in Galileo

To get started with Galileo, [log into your account](#) using Firefox or Chrome.

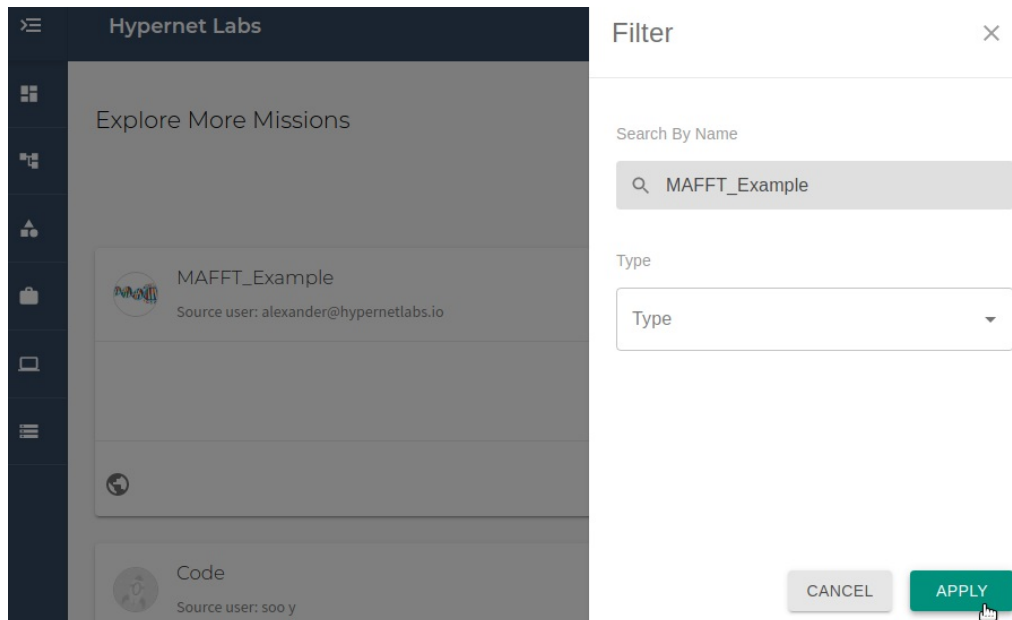
Understanding the user interface and cloning a Mission

When you log into Galileo, the first thing you'll see is your Dashboard:



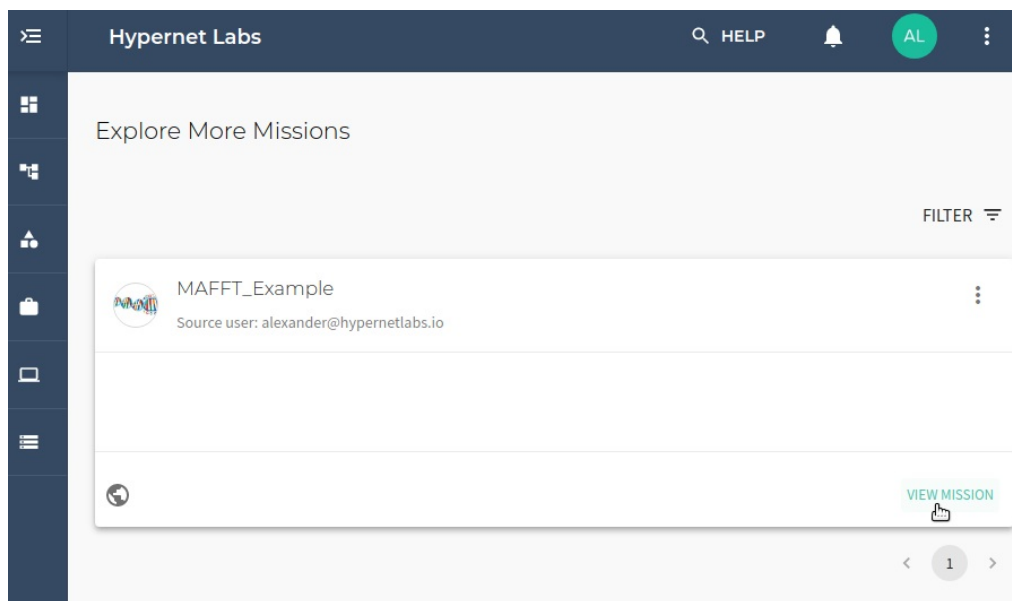
View of the Galileo Dashboard

To run the MAFFT example, start by navigating to the Missions tab using the side menu. Clone the MAFFT example Mission from the Explore Missions tab. Use the filter to search for the mission by name and click “Apply”.



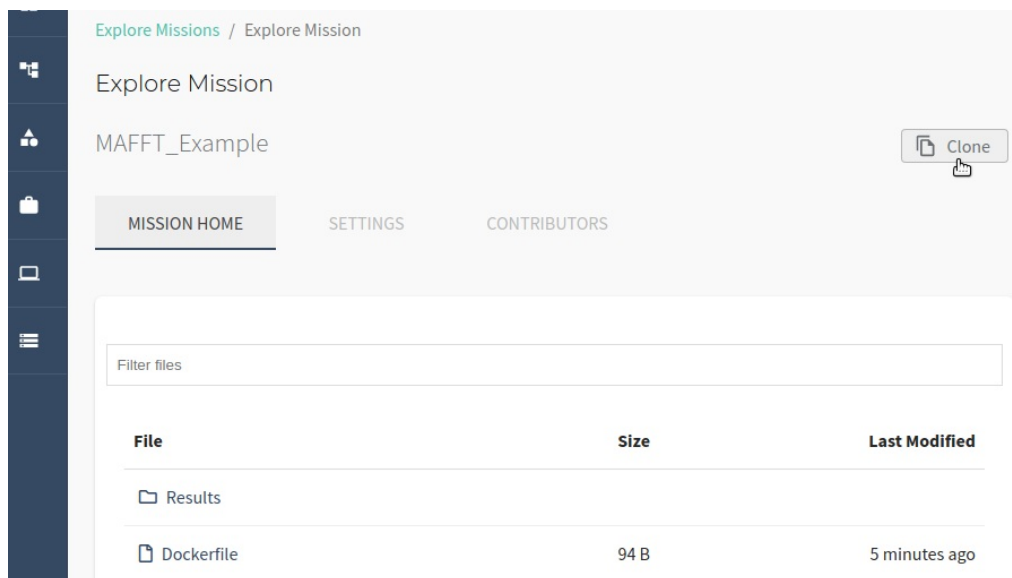
Find the public example mission by name

Once you have found the correct Mission, click “View Mission”.



Click View Mission

To clone the public Mission to your account, click the “Clone” button in the upper right corner of the interface. Choose between creating a public or private clone and also choose which Cargo Bay to use.



Clone the mission

You will now see a cloned copy of the Mission in your Missions.

Missions

Create a custom mission

Add a mission

Drag and drop mission folder or [click to upload](#)

FILTER

MAFFT_Example

Cloned from: alexander@hypernetlabs.io

RUN MISSION

UPDATE MISSION

The cloned copy

Let's take a look at our files

This tutorial demonstrates how to use MAFFT. MAFFT creates multiple sequence alignments (MSA) of nucleotides or protein sequences (genomes) and aligns all the sequences together and visualizes how they differ:

Multiple sequence alignment of 18 protein sequences

In our example folder, we have the file, "input.fasta". The MAFFT program takes as input a file of genome or protein sequences in a format called "FASTA", hence the "input.fasta". This file format is commonly used in bioinformatics.

Running a job and collecting results

Now we are ready to run a job using the Mission. Click the **Run** button in the upper right corner of the Mission tab. You will see a "Mission run successfully!" message. At the bottom of the Mission tab, you can track the progress of the job.

