

Griffin Hurt

Undergraduate Teaching Fellow

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Spring 2024, Term 2244
Friday 11 AM Lab
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Slides adapted from
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Lab 0: Introduction to Jupyter

- **Introduction**
- **Using JupyterLab**
- **Downloading Lab Materials**
- **Intro to Jupyter Notebooks**
- **Uploading to Canvas**

TA Introduction

- **Griffin Hurt**

- Senior in CS
- Research Medical Applications of Mixed Reality
- TA for
 - CMPINF 0010: Big Ideas in Computing and Information
 - CS 0449: Introduction to System Software (this course)
- griffhurt@pitt.edu
 - preface subject line with '[CMPINF 0010]'
- **Lab Materials will be posted on my website (once I update it)**



TA Office Hours

Day	Time/Location
Tuesday	11:00 AM - 2:00 PM @ 130 N Bellefield Ave., 5th Floor
Another Time	TBA
By appointment	Message me to schedule a meeting (in-person/virtual)

- **Changes to office hours will be announced on Canvas**

Getting JupyterHub

- **What is the SCI JupyterHub?**

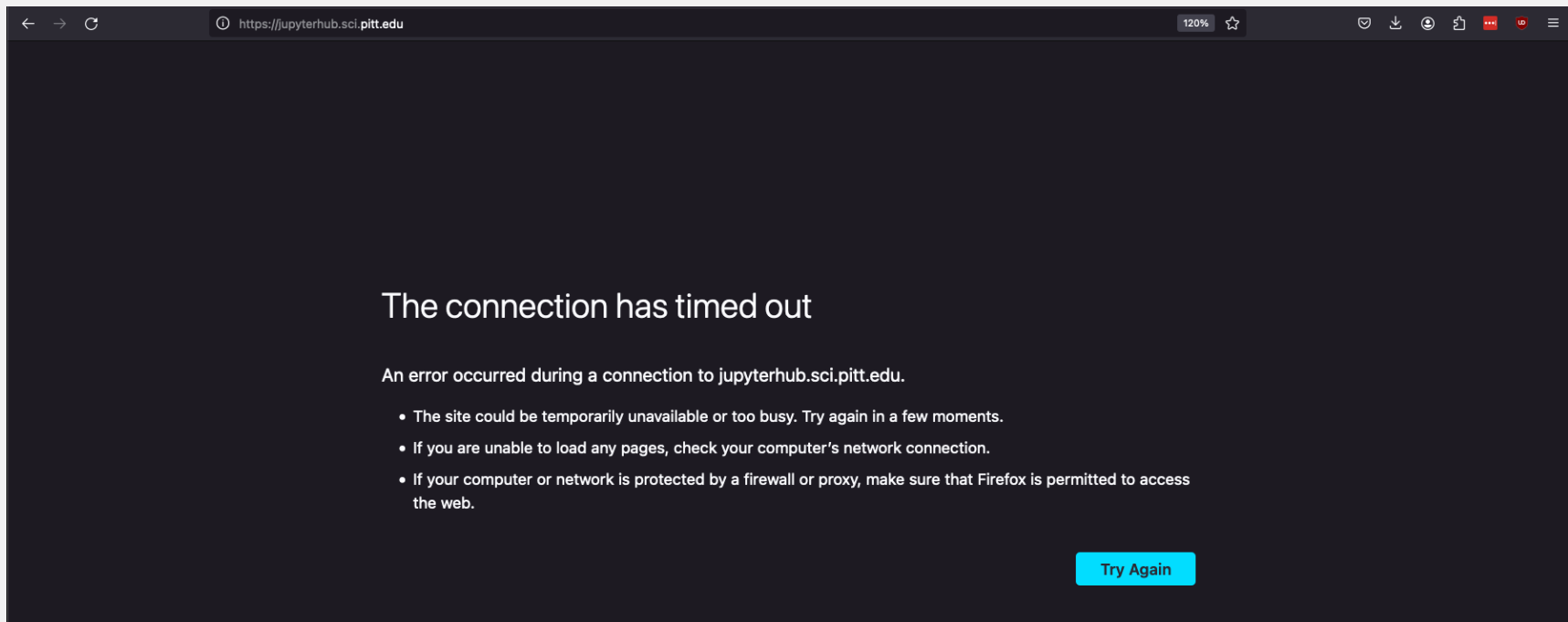
- Supercomputer with a unified development environment
 - This means everyone gets the same technology!
- Web based, so you don't need to download anything
- Operates on its own filesystem
 - You get your own storage, and everything will stay there

- **Other options for JupyterHub**

- Install it locally (hard mode)
 - Come to my office hours if you want help with environment setup
- Use Binder, which is similar to SCI JupyterHub but not run by Pitt

Logging into JupyterHub

- **I'd love to show you but...**



- JupyterHub has been down for a week, and I don't know what's going on
- **So, we're going to use the backup option today: Binder**

Starting JupyterHub

- **Navigate to the Lab Repository (posted on Canvas)**

Weekly Schedule

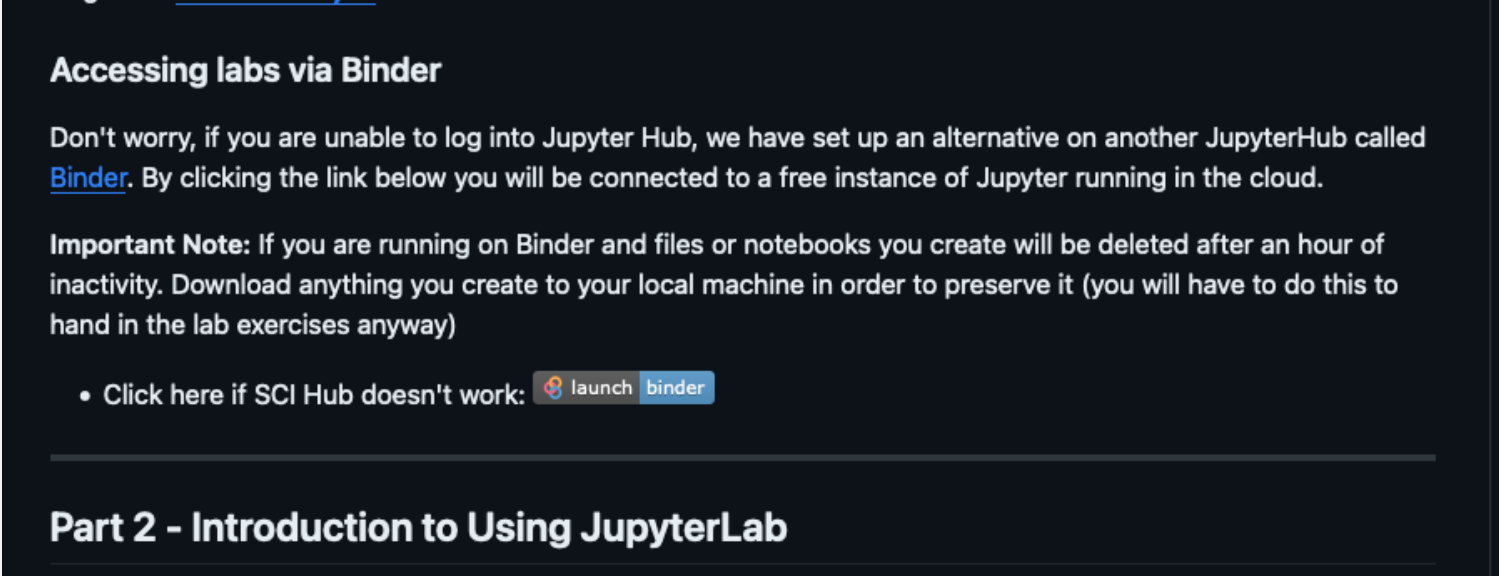
The table, below, provide a week-by-week overview of how the lecture, lab, and project components of this course will unfold. Please note that this schedule is subject to change, so please keep on top of course announcements!

Week	Lec.	Date	Lecture	Skills Lab
1	1	1/9	Course introduction, Computing and Information at SCI [Slides ↓]	NO LAB FIRST WEEK
	2	1/11	Synthesis Activity: Introductions	
2	3	1/16	What is Information? [Slides ↓] [Readings]	Introduction to Jupyter
	4	1/18	What is Computing? [Slides ↓] [Readings]	

- **Click the “Introduction to Jupyter” link**

Starting JupyterHub (cont.)


- **Scroll down in the repository**
- **Click “launch binder”**



Accessing labs via Binder

Don't worry, if you are unable to log into Jupyter Hub, we have set up an alternative on another JupyterHub called [Binder](#). By clicking the link below you will be connected to a free instance of Jupyter running in the cloud.

Important Note: If you are running on Binder and files or notebooks you create will be deleted after an hour of inactivity. Download anything you create to your local machine in order to preserve it (you will have to do this to hand in the lab exercises anyway)

- Click here if SCI Hub doesn't work: 

Part 2 - Introduction to Using JupyterLab

- **We'll continue our lesson there!**