

Getting set up

# Recommended: connect to our BinderHub

All of the software is already installed; you only need a web browser.

- [https://binderhub.ssl-hep.org/v2/gh/research-software-collaborations/courses-hsf-India-december2023/HEADgpu\\_false](https://binderhub.ssl-hep.org/v2/gh/research-software-collaborations/courses-hsf-India-december2023/HEADgpu_false)

Then to login, repeat the authentication procedure you tested last week



**binder/jupyter service @ SSL**

**Authorized Users Only!**

**News**

Watch here for announcements!

**Authorized Users Only:  
Sign in with keycloak**



## Sign in to your account

Username or email

Password

Sign In

Or sign in with

[cilogon](#)



# CI Logon

## Consent to Attribute Release



UC AF requests access to the following information. If you do not approve this request, do not proceed.

- Your CI Logon user identifier

## Select an Identity Provider

Google ▾ ⓘ

Remember this selection ⓘ

**Log On**

By selecting "Log On", you agree to the [privacy policy](#).

Google ^



Renew | Type to search

Google

29 Mayis University

A\*STAR - Agency for Science, Technology and Research

A. T. Still University

AAF Virtual Home

aai.lab.maeen.sa

AAI@EduHr Single Sign-On Service

Aalborg University

Aalto University

Aarhus School of Architecture

Aarhus School of Marine and Technical Engineering

Aarhus University

AARNet

Aba Teachers University

By selecting "Log

about this site, ple

Know your respon

See acknowl

# If your institute isn't listed, you can use Google or GitHub

## On the list:

CERN  
GitHub  
Google  
MyResearchID  
Okta, Inc.  
ORCID  
Unicon, Inc.

Banaras Hindu University  
Central University of South Bihar  
Indian Institute of Technology (IIT), Bhubaneswar  
Indian Institute of Technology (IIT), Delhi  
Indian Institute of Technology (IITH), Hyderabad  
Indian Institute of Technology (IIT), Madras  
Institute of Science (IIS), Bengaluru  
Jawaharlal Nehru University  
Tezpur University  
University of Delhi

## Not on the list:

Aligarh Muslim University  
Amity University, Noida  
Baba Raghav Das PG College Deoria  
Biju Patnaik University of Technology  
Birla Institute of Technology (BIT), Mesra, Ranchi  
Central University of Karnataka  
Cooch Behar Panchanan Barma University  
Government Degree College Pattan (GDC)  
Homi Bhabha National Institute, Mumbai  
Indian Institute of Science Education and Research (IISER), Kolkata  
Indian Institute of Science Education and Research (IISER), Mohali  
Indian Institute of Technology (IIT), Jodhpur  
Indian Institute of Technology (IIT), Mandi  
Institute of Physics, Bhubaneswar  
National Institute of Science, Education, and Research (NISER)  
Panjab University Chandigarh  
Physical Research Laboratory, Ahmedabad  
Presidency University  
Pt. Ravishankar Shukla University  
Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur  
Saha Institute of Nuclear Physics (SINP)  
Shiv Nadar Institute of Eminence  
University of Hyderabad  
University of Kashmir  
Variable Energy Cyclotron Centre (VECC)  
Veer Kunwar Singh University, Arrah (Bihar)  
Vellore Institute of Technology (VIT), Chennai

We are using the IRIS-HEP  
“Scalable Systems Laboratory”  
resources at University of Chicago.  
This course has a lot of people, so we  
may see some scaling issues. We’ll  
work through those today..



Starting repository: research-software-  
collaborations/courses-hsf-india-  
december2023/HEADgpu\_false

Your launch may take longer the first few times a repository is used. This is  
because our machine needs to create your environment.

Build logs

[view raw](#) [hide](#)

```
Found built image, launching...
Launching server...
Server requested
2023-12-17T05:45:41.305054Z [Normal] Successfully assigned binderhub/jupyter-jpivarski-40gmail-2e
com--davidlange6-2dscientific-2dpython-2dneorphht to river-c050.ssl-hep.org
2023-12-17T05:45:41Z [Normal] AttachVolume.Attach succeeded for volume "pvc-5c278902-8b62-424f-81
60-a3185bdb7171"
2023-12-17T05:45:46Z [Normal] Container image "jupyterhub/k8s-network-tools:2.0.0" already presen
t on machine
2023-12-17T05:45:46Z [Normal] Created container block-cloud-metadata
2023-12-17T05:45:46Z [Normal] Started container block-cloud-metadata
2023-12-17T05:45:47Z [Normal] Pulling image "harbor.ssl-hep.org/bhub/davidlange6-2dscientific-2dp
ython-909620:83540f1e4453aa7f7c0209794329078c412a40d8"
█
```

Also keep an eye on <https://jupyterhub.ssl-hep.org/>

Start My Server

## Named Servers

In addition to your default server, you may have additional 5 server(s) with names. This allows you to have more than one server running at the same time.

Server name	URL	Last activity	Actions
<input type="text" value="Name your server"/> <a href="#">Add New Server</a>			
davidlange6-scientific-python-neorpht		5 minutes ago	<a href="#">stop</a>
davidlange6-scientific-python-q2cmot9w		a few seconds ago	<a href="#">stop</a>

You may need to clean these instances periodically as failed attempts to start a binder will remain here... Just click stop on the obsolete instances.






Filter files by name

/


Name	Last Modified
binder	3 days ago
data	3 days ago
img	3 days ago
exercise-1...	3 days ago
exercise-2...	3 days ago
hello.cu	3 days ago
lesson-1.ip...	3 days ago
lesson-2.i...	3 days ago
lesson-3.i...	3 days ago
lesson-4.i...	3 days ago
LICENSE	3 days ago
postBuild	3 days ago
tfhello.py	3 days ago
vadd.cu	3 days ago

### Launcher

#### Notebook




Python 3 (ipykernel)




ROOT C++

#### Console

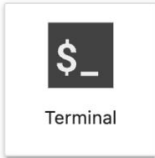


Python 3 (ipykernel)




ROOT C++


#### Other



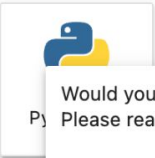
Terminal



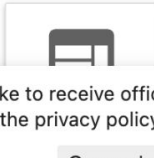
Text File



Markdown File



Python



Jupyter Notebook

Would you like to receive official Jupyter news?

Please read the [privacy policy](#).

Expert notes for running locally

# Alternative (or in addition), install on your own computer

Do you already have a preferred way to install Python packages?

If not, we recommend miniconda.

Instructions: <https://scikit-hep.org/user/installing-conda> (a little out of date; there's no distinction between “mamba” and “conda” anymore)

```
conda create --name hsf-india-bhubaneswar python=3.10 jupyterlab numpy
conda activate hsf-india-bhubaneswar
jupyter lab
```

and add more packages as needed.

If anything doesn't work on your laptop, use our BinderHub.

# Alternative (or in addition), install on your own computer

To get all of packages in our binderhub...

```
git clone
https://github.com/research-software-collaborations/courses-hsf-india-december2023.git
cd courses-hsf-india-december2023/binder
#do this once..
conda env create -f environment.yml
conda activate hsf-india
jupyter lab
```

If anything doesn't work on your laptop, use our BinderHub.

# Alternative (or in addition), install on your own computer

Maybe you are familiar with docker? If so, this dockerfile might work as another alternative way to work..

[https://github.com/research-software-collaborations/courses-hsf-india-december2023/blob/main/docker\\_info/docker-setup](https://github.com/research-software-collaborations/courses-hsf-india-december2023/blob/main/docker_info/docker-setup)

When running, open a port for jupyter to use

```
docker run -i -t -p 8888:8888 -v /tmp:/tmpdock -v $PWD:/notebook
```

Then start jupyter inside the container

```
jupyter lab --no-browser --port=8888 --ip=0.0.0.0 --allow-root
```

And open the link suggested..

If anything doesn't work on your laptop, use our BinderHub.