Software Carpentry Workshop: Software + HEP Software Fundamentals

Jul 13 - 15, 2022

Instructors:

- Rayna Harris
- Rayvn Manuel
- Alexander Moreno Briceño
- Aman Goel
- Guillermo Antonio Fidalgo Rodriguez

Mentors:

Mason Profitt

Local organising committee:

- Sudhir Malik
- Michel Villanueva
- Wouter Deconinck
- Kilian Lieret







If you aren't recording this on Zoom, start the recording ... (just a reminder)

Everyone is Welcome

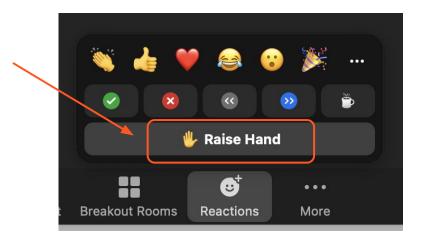
- You are physicists working in international collaborations. All of you should know this page:
 - The CERN code of conduct
- Built on a set of core CERN values
- Taken together, provide the basis for respect: respect for others, respect for the organization and respect for its mission.



 We encourage a culture of openness where all contributors feel free to engage in the discussion.

We are here to help!

- Please "raise your hand" (in reactions at the bottom of your Zoom client)
 if you have questions.
- You can also ask in the Zoom chat or Slack.



There is no such thing as a "stupid question"!

You should have done this already...

[0] Fill out the pre-training surveys! - It will take 10 minutes.

Links on Indico (login required!):



[1] Join the Slack channel: <u>invite</u>
If you have troubles to join, let us know now.



Rayna Michelle Harris

Postdoctoral Scholar University of California at Davis rmharris@ucdavis.edu

My research:

The influence of genes on disease and behavior

My expertise is:

Cell and Molecular Biology

A problem I'm grappling with:

Auto-compiling information about genes from many sources and displaying that information on gene-specific webpages

I've got my eyes on:

Camping at the lake

I want to know more about:

Affordable housing











Rayvn Manuel

Sr. Application Developer | DevOps Engineer Smithsonian Institution - National Museum of African American History and Culture

My research:

Enabling accessibility features for in-gallery interactives which accommodate neurodiverse visitors





My expertise is:

Web Application Design and Development

A problem I'm grappling with:

Implementing an application programming interface which surfaces metadata and content for public consumption

I've got my eyes on:

Designing a costume for upcoming Renaissance Fairs

I want to know more about:

Costume design and construction







Alexander Moreno Briceño

Assistant Professor
Universidad Antonio Nariño
alexander.moreno@uan.edu.co

My research:

Top quark physics at present and future colliders, in particular top quark spin correlations and top quark production and decay in association with DM.

My expertise is:

Theoretical and computational calculations in HEP

A problem I'm grappling with:

Machine learning and quantum machine learning in HEP

I've got my eyes on:

My little baby boy

I want to know more about:

The Universe, and specially how to manage my time to know more about the Universe







Aman Goel

Recent Graduate in Computer Science & Math University of Delhi aman.goel185@gmail.com

My research:

Research and Development of Analysis Systems tools such as *Hist* and *uproot-browser* for High Energy Physics

My expertise is:

Using Python for Research Computing and Software Development Life Cycle

A problem I'm grappling with:

Arch Linux and developing pure Python code with minimal dependencies

I've got my eyes on:

A book I have been meaning to read. And cheese.

I want to know more about:

Astronomy and Sustainable Development











Guillermo Fidalgo Rodríguez

Masters Student in Physics University of Puerto Rico - Mayagüez <u>afidalgo@cern.ch</u>

My research:

Analysis on Exotic Physics: Emerging Jets.
I do Machine Learning for DQM Studies for the CMS
Tracker.

My expertise is:

Using python for ML Studies

A problem I'm grappling with:

Designing a new HLT Trigger for analysis

I've got my eyes on:

A Framework laptop for replacing my old pc.

I want to know more about:

C++, Arduino

How to efficiently teach a dog new tricks



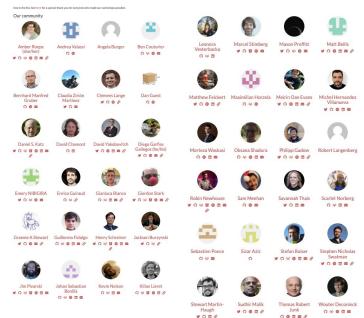






HSF Educator/Mentor community

https://hepsoftwarefoundation.org/training/educators.html



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Become expert

- o In 1 or more topics
- Join our community
- Become training Educator
 - a mentor, facilitator, instructor

Group picture!