Software Basics Training Software + HEP Software Fundamentals

Sep 28 - Oct 1, 2022

Instructors:

- Devasena Inupakutika
- Zongru (Doris) Shao
- Enric Teiedor
- Jonas Rembser
- Axel Naumann
- Eliott Kauffman

Mentors:

- Guillermo Fidalgo
- Aman Goel
- Alexander Moreno
- ...

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

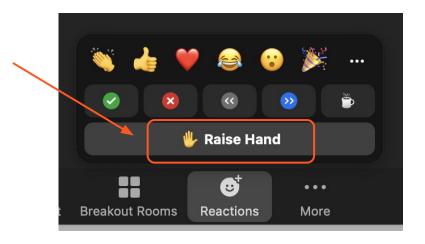
- You are physicists working in international collaborations. All of you should know this page:
 - The CERN code of conduct
- Built on a set of core CERN values
- Taken together, provide the basis for respect: respect for others, respect for the organization and respect for its mission.



 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.



Devasena Inupakutika

Performance Engineer, Samsung Semiconductor

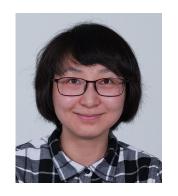
My research: Datacenter Technology, Performance Engineering, Al Workloads My expertise is: Systems performance analysis, Al models

A software and computing problem I'm grappling with: Impact of AI workloads on Solid State drives performance

I've got my eyes on: New methodologies for storage-intensive Al

I want to know more about: Everything Python, Data Analysis and Command-line tools for automation





Zongru (Doris) Shao

Postdoc, CASUS/HZDR, machine learning.

My research: air quality time series forecasting, natural language processing, text mining (mental health detection, twitter depression, fake news detection), gene analysis, emotion analysis, computer vision, etc.

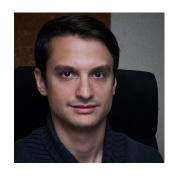
My expertise is: machine learning, deep learning, Al applications with sensor data, text, image, video, and audio. A bit HPC.

A software and computing problem I'm grappling with: a lot of python coding.

I've got my eyes on: parallel computing and programming efficiency.

I want to know more about: feedbacks, improvements, etc.





Enric Tejedor Saavedra

Software engineer, CERN

My research: programming models for physics analysis

My expertise is: parallel and distributed computing, HPC

A software and computing problem I'm grappling with: Pythonic interfaces for data analysis

I've got my eyes on: new backends for distributed analysis

I want to know more about: feedback about ROOT and its interfaces







Elliott Kauffman

Recently graduated from Duke University IRIS-HEP Fellow

My research: vertex reconstruction using machine learning

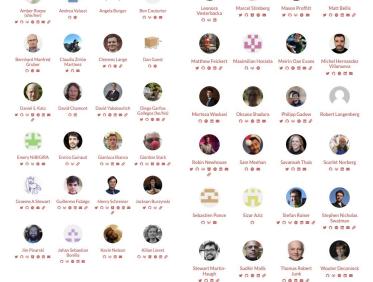
My expertise is: machine learning

A software and computing problem I'm grappling with: increasing efficiency of vertexing algorithms

I want to know more about: new tricks in Python and command line tools

HSF Educator/Mentor community

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



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Our community

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

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- Training events
- New material
- Sharing job offers!



Group picture!