





Michele Floris (ALICE)
Steven Schramm (ATLAS)
Sergei V. Gleyzer (CMS)
Paul Seyfert (LHCb)
Lorenzo Moneta (SFT)

News



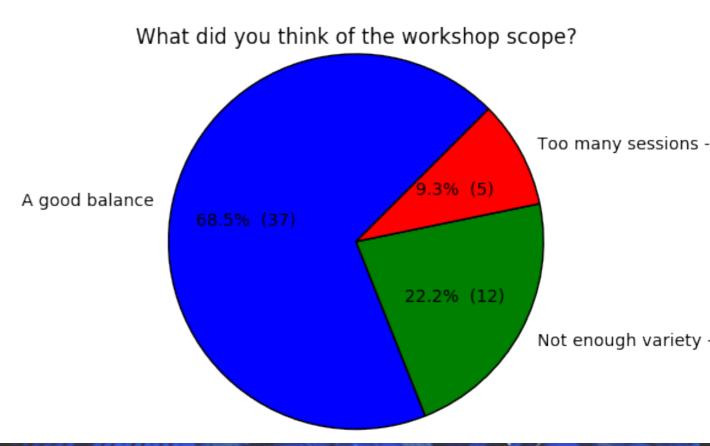
- Workshop recordings available <u>here</u>
- Events & Training
 - DS@HEP Workshop, Fermilab, May 8–12
 https://indico.fnal.gov/conferenceDisplay.py?confld=13497
 - ML in HEP Summer School, Reading June 17–23 2017 https://indico.cern.ch/event/613571/
 - Fermilab ML Group Meeting https://indico.fnal.gov/conferenceDisplay.py?confld=14236
 - Apache Spark for Developers (new training on CERN Training Catalogue)
 https://cern.ch/course/?173SPK02
- Next Meeting:
 - May 24, 4-3-006 TBC, https://indico.cern.ch/event/631610/
 - Topic: Challenge results, Deep Learning
- q/g Challenge: Challenge closed, but dataset still available
 - https://gitlab.cern.ch/IML-WG/IMLWorkshop2017-Challenge

General feedback on the workshop



- 55 answers
- People like the idea of 1 maybe 2 workshop
- Most people would attend again
- Format, length, location, period of the year was appreciated by most (> 85%)
- Balance of topics was ok
- Recurrent requests:
 - More context for beginners
 - Variety of topics: should have made more explicit that the contributed part was meant to be topical!
 - Lecture-like contributions from experts (data-scientists)





Industry & White Paper Sessions



Industry

- 85% attended
- Suggestions for additional invitations: Google, AMD, Facebook, startups, non-HEP but non-industry (e.g. math, computer science)
- Suggestion to invite people with HEP background (facilitates communication) or former physicist (career opportunities)
- 83% appreciated panel
 - Preference for even split of pre-planned and audience questions

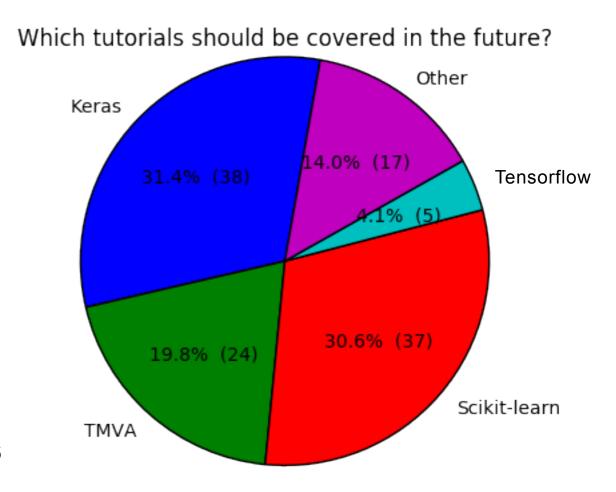
Community White Paper

- 50% attendance
- 50% of attendees got a new perspective
- Most attendees found it useful in view of preparation of the final paper
 - But some suggestions for a more "structured" discussion
 - Not easy to follow discussions (esp. on Vydio)

Tutorials



- 50% would have appreciated longer tutorials
- Majority found them well targeted, ~ 45% too simple / too advanced
 - Difficult to accomodate all levels
 - Maybe explicitly label tutorials as basic/advanced next time
- Only ~30% had (misc) **technical problems** with tutorial
- Lots of interests in the tutorials
 - Variety of requests
 - Not just on "tools" but also on "concepts" and "techniques"
- Bottom line:
 - In general appreciated
 - Requests for longer tutorials
 - Request for tutorials at different levels



Contributed workshop (tagging)



- 85 % attended, 85% of them appreciated the format (length of talks and topics)
- Request for more variety (but was meant to be topical)
- "Same contribution from different experiments"
 - Maybe next time include "overview talks"

- Suggestions for future workshops:
 - A link with the Aerospace and Astrophysics
 - Tracking
 - Deep learning for analysis
 - Generation / simulation
 - non-HEP
 - Brainstorming-like meeting

Challenge



- About 30% participated, all of them would participate in a future challenge
- Most of the participants found it useful and well tuned in terms of difficulty
- Half of the participants plan to reuse the dataset
- Assorted feedback
 - First and second dataset too similar
 - Getting the data a bit cumbersome for non-cern people
 - Open the challenge longer (e.g. when announcing the workshop)
 - Too many prerequisites
 - Misc technical problems (<20%)
- Definitely margin for improvement, but it seems the experiment was appreciated

Workshop, wrapping up



- Overall, workshop seems to have been appreciated
- We will continue to aim at ~monthly meetings with ~1 workshop/year as generally preferred
- Thank you to everyone who participated and made it a great experience
- Special thanks to those who provided feedback on how we can improve in the future
- Email us if you have additional comments or suggestions for next workshop!



Today's meeting



15:00 → 15:10	News and group updates Speakers: Lorenzo Moneta (CERN), Michele Floris (CERN), Paul Seyfert (Universita & INFN, Milano-Bicocca (IT)), Dr. Sergei Gleyzer (University of Floris Steven Randolph Schramm (Universite de Geneve (CH))	○ 10m orida (US)),	2-
15:10 → 15:30	IML workshop challenge runner-up presentation Speaker: Michael Andrews (Carnegie-Mellon University (US))	③20m	2-
15:30 → 16:00	Deep learning - IBM presentation ¶ Speaker: Eric Aquaronne (IBM France)	③30m	2-
16:00 → 16:20	Generative Adversarial Networks for LarTPC Speakers: Daniel Lewis Smith (Boston University Study Abroad Geneva Programs (CH)), TBC	③20m	2-
16:20 → 16:40	Language agnostic ML workflows Speaker: Dr. Andrew Lowe (Hungarian Academy of Sciences (HU))	③20m	2-
16:40 → 17:00	HEP-ML Transfer: Using ML to screen for childhood psychological ailments at Cognoa Speaker: Ford Garberson (Yale University (US))	③20m	2-

M. Floris