



Machine Learning Group Organization and Resources

Fernanda Psihas

*Topics to motivate the discussion and summary of
available resources*

Available resources

The following are broad agenda items. A more extensive list has been compiled by Gabe P. and will be uploaded post meeting.

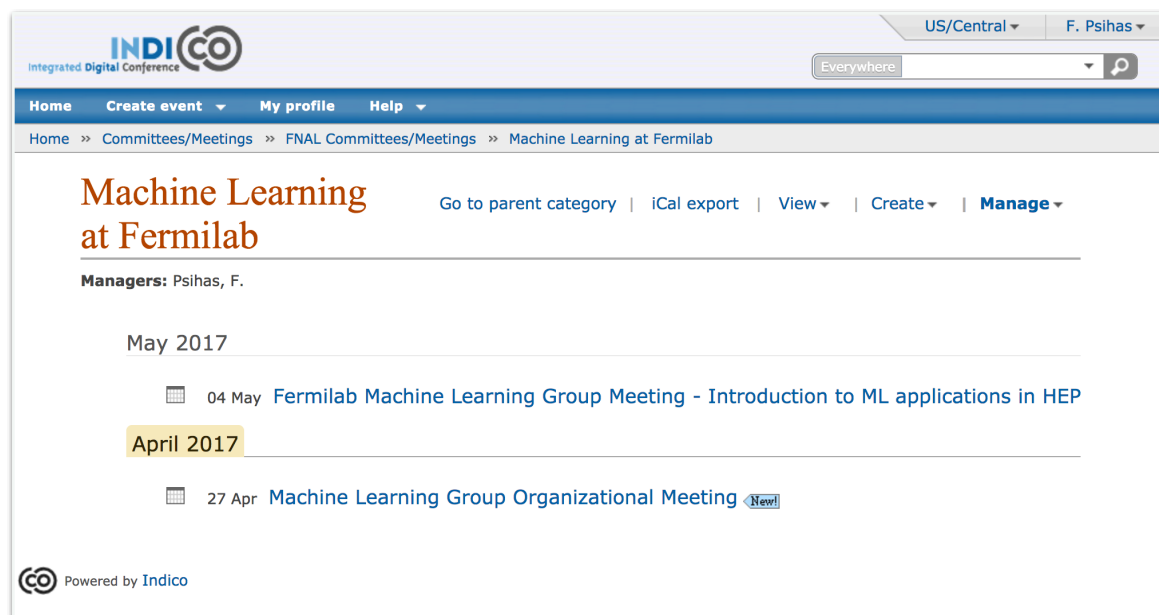
- * **Scope and goals.**
- * **Specific actions to encourage community engagement.**
- * **Mechanisms and deadlines for decision making**
- * **Access to existing resources (more on following slides)**
- * **Settle on name for the group and decide on name usage.**
- * **Do we need a governance structure?**
- * **Official communications**
- * **Edit process for public resources**
- * **Involvement in the CWP process**

Minutes and specific list will be uploaded post-meeting

Available resources

I put together a few resources in the past few weeks. Some talking points today include access and edit procedures.

Access: I am still waiting for responses to my email as to who would like access to which resources. Should settle on that today.



Indico Page

listserv mailing list
machinelearning@fnal.gov

shared mailing list
machinelearning_coordinators@fnal.gov

web pages

Previously existent (not made by me):

Slack group

DeepHep Journal Club

Others I am not aware of?

Web Page

Content still to be added.

Wording should still change from “inter-experimental” to “fermilab community”

Discussion point:

Poster for advertising monthly meetings. Should this be posted on the website or indico pages?

The screenshot shows the Fermilab website's Machine Learning section. At the top is the Fermilab logo with the tagline "50 Years of Discovery" and a navigation menu including Home, Contact, Phone Book, Fermilab at Work, Jobs, We are 5, About, Science, Newsroom, Come visit us, and Resources for. A search bar is also present. The main header features a blue circuit-like background with the text "Machine Learning".

Machine Learning

- Group Coordinators
- Monthly Meetings
- Publications
- Upcoming Events
- Deep ML Journal Club (internal)

An Inter-experimental Machine Learning Group

The Inter-experimental Machine Learning Group brings together a community of analyzers of HEP data who use and develop machine learning (ML) algorithms to solve physics problems. We share tools and applications, provide training and discuss challenges related to the use of ML tools in the HEP community.

We hold regular meetings focused on tool development, knowledge transfer and common solutions to known challenges. Experts from multiple experiments provide feedback and encourage collaboration among members in order to promote the use of ML tools in the community for problems for which they have been shown to be useful.

We are part of the global HEP community. Our sister group **IML LHC** brings together scientists with a focus mostly on collider experiments. We believe that building community in an inclusive environment advances knowledge transfer and promotes a more active community.

New to the Machine Learning group?

Subscribe to our mailing list: machinelearning@fnal.gov

Join the conversation: [HEPMachineLearning](#)

Monthly Meetings

We hold monthly phone meetings where members of different experiments are encouraged to show their progress applying machine learning tools, allowing them to showcase their applications to the community and get feedback from experts.

You can get involved by attending the [next meeting](#) and by suggesting topics or speakers.

DeepHEP Journal Club

Join experts on discussions about the most recent developments in deep learning applications, both in the field and outside.

Journal club meets monthly at Fermilab. You can find information about next month's paper as well as meeting details in the [deepHEP internal website](#).

Science and Applications

Find out more about the science we do at Fermilab and the [exciting physics](#) we apply machine learning to.

At the bottom of the page, there is a footer with the U.S. Department of Energy logo, Fermi Research Alliance LLC information, and quick links for Home, Contact, Phone Book, Fermilab at Work, For Industry, Jobs, and social media links for Facebook, Twitter, Instagram, Google+, YouTube, Flickr, and LinkedIn. A "Security, Privacy, Legal Use of Cookies" link is also present.

Web Page

Some of you gave me pictures, I can still change the ones that are up if you would like.

Coordinator discussion:

We have discussed the idea of having more than a single person per experiment (group, application, etc..).

We should settle on a way to approach potential co-coordinators and how often to cycle through them. My suggestion is a couple of years.

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Machine Learning

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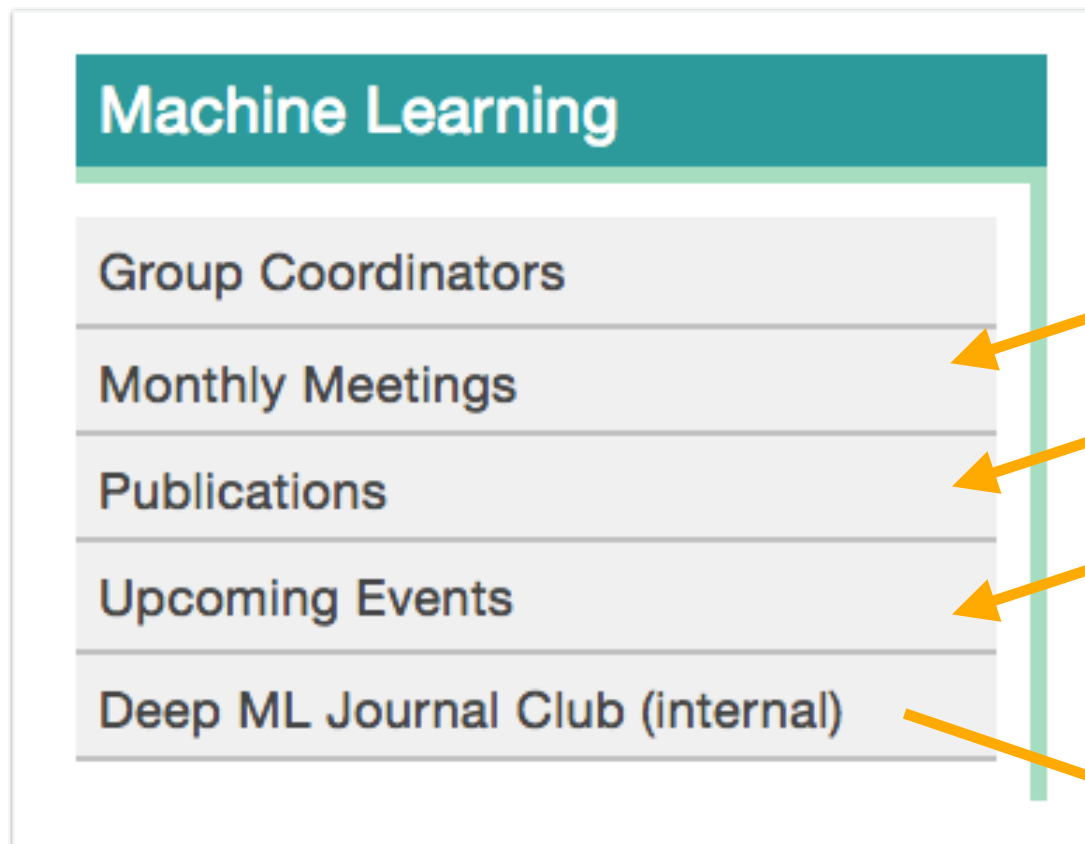
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Points to indico page

Points to general publications page :(

Points to DS@HEP page :(

Brian's DeepHEP internal page

Pages still needed to showcase publications and future events.

We need a procedure for editing these pages. I suggest asking the communications office for suggestions on how often and how much the content and style are usually edited on other sites.