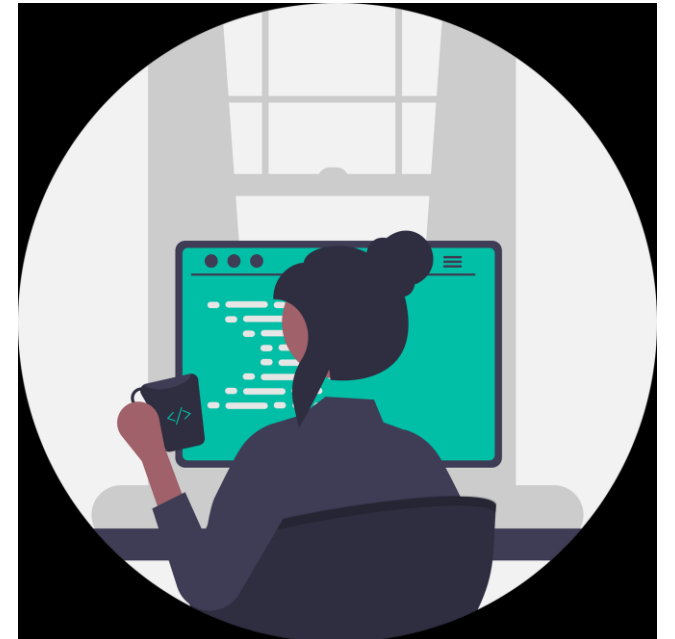# ECFA-ECR working group on **Software and machine learning** applications for Instrumentation

Marta Urbaniak

Group goals

- Analysis of problems and challenges faced by early career researcher (conected to their sofware and machine learning work)

- Providing mechanisms to create a more friendly environment in which scientists receive substantive support in their self-development

Every one is welcome :)

Completed tasks, plans and current activities

- Review of existing software/machine learning techniques and their applications in the field of instrumentation/detector physics - done

- Review of existing Open Source Software (OSS) for different applications - done

- Survey on the need of software/machine learning skills as part of instrumentation work – in progess

Completed tasks, plans and current activities

- Long term goal: organise school/workshop dedicated in software training/development for instrumentation work

✓ Could include trainings in OSS

✓ Creating your own DCS/DAQ systems

✓ Presentation of currently working groups related to software for future colliders

- The program would be selected according to the survey results - results would show in which topics there is the greatest demand/interest

How to contacts us

❑ Working group mailing list created: ecfaecr-sw-ml-instrumentation@cern.ch

❑ Dedicated mattermost channel: [click](#) to join

❑ The date of the next meeting is planned for November

Thank you for your attention!