



Contribution ID: 41

Type: **Demonstration**

Using your MATLAB license on EGI services

Wednesday, 21 September 2022 10:35 (25 minutes)

This demonstration will provide tutorials on how MATLAB users can connect to various EGI services with their own licenses to share, collaborate and access data and compute across the European Open Science network.

1. **MATLAB on EGI JupyterHub:** Users will learn how they can use their own MATLAB licenses to access and analyze public datasets from hundreds of data providers via the EGI JupyterHub. Users can share research output between diverse user groups, call other languages (eg. Python) from MATLAB and save data in widely accessible formats. Research communities can also leverage this service to have their own custom-built JupyterHub with MATLAB to allow users access to their cloud data. One such community, **EISCAT3D** will demonstrate how they are successfully taking advantage of MATLAB on this service

1. **MATLAB on EGI HPC services:** Users will also learn how they can scale up their computing needs by using High Performance Computing services offered by the various EGI Council members. Using MATLAB Parallel Computing Toolbox and MATLAB Parallel Server users can access multiple compute nodes at their HPC provider of choice. **Ghaith Makey and Michaël Barbier** from the Simply Complex Lab at Bilkent University in Turkey, will present research and demonstrate their use of parallel computing workflows with MATLAB

Any relevant links

Topic

Data Spaces

Primary authors: Dr CHAKRABARTI, Shubo (MathWorks); HAGGSTROM, Ingemar (EISCAT); Dr MAKEY, Ghaith (Simply Complex Lab, Bilkent University); Dr BARBIER, Michaël (Simply Complex Lab, Bilkent University)

Presenters: Dr CHAKRABARTI, Shubo (MathWorks); HAGGSTROM, Ingemar (EISCAT); Dr MAKEY, Ghaith (Simply Complex Lab, Bilkent University); Dr BARBIER, Michaël (Simply Complex Lab, Bilkent University)

Session Classification: Demonstrations

Track Classification: Data Spaces