Contribution ID: **13**   Type: **Demonstration**

Using MATLAB on EGI for Open Science

Wednesday, 20 October 2021 13:30 (10 minutes)

This demonstration will provide users with a step-by-step tutorial for accessing data via the EGI Data Services and analyzing it with MATLAB on the EGI's Notebooks Service.

Users can connect with their own MATLAB licenses to analyze available datasets on the EGI's DataHub in the cloud on EGI resources. MATLAB live scripts allow users to build computational notebooks combining text, images, code and results which can be shared with their communities via the EGI cloud storage. To share research output between diverse user groups, users can call other languages (eg. Python) from MATLAB and save data in widely accessible, open formats.

In this demonstration, attendees will learn how to
• Access the EGI's Notebook Service
• Use their MATLAB licenses to run MATLAB on the EGI
• Connect to the EGI DataHub to access publicly available datasets
• Create a computational notebook containing images, text, code, and output, all in one document
• Apply interactive controls for users to tune notebook parameters during runtime
• Share their MATLAB code and data with other users using EGI cloud storage

Speaker bio:
Dr. Shubo Chakrabarti is the EMEA Science Gateway Strategist at MathWorks and helps researchers using and hosting online portals to effectively share and easily access MATLAB and Simulink for their research. Shubo earned his MSc at the Kings College London and his PhD in neuroscience at the Penn State University Medical College in the US. Before joining MathWorks, Shubo worked as a senior neuroscientist and project leader for several years at the Universities of Göttingen and Tübingen in Germany. He is an Alexander von Humboldt fellow and a reviewer for several scientific journals and the German Research Society (DFG).

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Nick Choi is a product manager at MathWorks focusing on integrations between MATLAB and a variety of popular online platforms.

Most suitable track

Delivering services and solutions

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Session Classification: Demonstration