



Contribution ID: 194

Type: **Invited Talk**

KEYNOTE 5 (DIRISA): DALI: A Data life cycle instrument for management and sharing of data: Towards the reproducibility and data reuse of scientific research

Wednesday, 4 December 2019 09:00 (45 minutes)

Researchers today are generating volume of data from simulations, instruments and observations at accelerating rates, resulting in extreme challenges in data management and computation. In addition to publications, scientists now produce a vast array of research products such as data, code, algorithms and a diversity of software tools. However, scholarly publications today are still mostly disconnected from the underlying data and code used to produce the published results and findings, which need to be shared. This presentation will discuss a funded project to acquire and operate an extensible Data Lifecycle instrument (DaLI) for management and sharing of data from instruments and observations that will enable researchers to (i) acquire, transfer, process, and store data from experiments and observations in a unified workflow, (ii) manage data collections over their entire life cycle, and (iii) share and publish data. This presentation will also discuss our approach in generating and sharing data and artifacts associated with research publications, and therefore, providing access to a platform that makes data findable, accessible, interoperable, reusable and reproducible.

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Session Classification: KEYNOTE 2

Track Classification: DIRISA