Title:

Building an Environmental System Science Community Data Archive

Abstract:

The ESS Community and Stakeholders include ESS program managers, ESSfunded projects, the ESS Cyberinfrastructure Executive Committee and Working Groups, as well as potential users of the data. The ESSDIVE archive is designed to serve this community. We are devoting significant resources to engage with the ESS community. Our engagement technique utilizes User Experience (UX) Research Methods to understand community needs, priorities, and processes. The ESSDIVE team meet with ESS project teams and with ESS project leaders. We also engage the ESS Cyberinfrastructure Executive Committee and the Working Groups to coordinate archive efforts, and to solicit guidance on ESSDIVE design and implementation. We meet regularly with the advisory groups through conference calls and at the ESS PI meeting to seek their input and provide regular updates on our progress. Additionally, we partner with the community to identify and adopt standardized data and metadata formats, and support community members who wish to build tools that utilize the data in the archive.

Bio:

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Dr. Agarwal is a Senior Scientist and the Data Science and Technology Department Head at Lawrence Berkeley National Laboratory (LBNL). Dr. Agarwal is the lead of the new Department of Energy Environmental Systems Science Data Infrastructure for a Virtual Ecosystem (ESS-DIVE) archive. Dr. Agarwal's current research focuses on developing computational tools to enable scientists to more effectively organize and use their data to understand earth systems. She has worked on projects involving watershed understanding, carbon flux, tropical forests, soil carbon, carbon capture, cosmology, particle accelerators, and satellite data.