



Intelligent Cyberinfrastructure with Computational Learning in the Environment Seminar Series

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"Data Sharing and Computing: HydroShare as Hydrology Use Case"



Dr. David Tarboton

Director of the Utah Water Research Laboratory

Dr. David Tarboton is the director of the Utah Water Research Laboratory that conducts research to generate knowledge needed to solve water problems in Utah, the country and around the world. His research is in the area of surface water hydrology, water resources, hydrologic modeling, hydrologic information systems, digital elevation model terrain analysis and snow. He led the development of HydroShare, a hydrologic information system for sharing hydrologic data and models operated by the Consortium of Universities for the Advancement of Hydrologic Science, Inc.

HydroShare is a web-based repository and hydrologic information system operated by CUAHSI for users to share, collaborate around, and publish data, models, scripts, and applications associated with water related research. It serves as a repository for data and models to meet Findable, Accessible, Interoperable, and Reusable (FAIR) open data mandates. Beyond content storage, the HydroShare repository also links with connected computational systems providing immediate value to users through the ability to reduce the needs for software installation and configuration and to document workflows, enhancing reproducibility. Data are held using the Open Archives Initiative Object Reuse and Exchange (OAI-ORE) standard which enhances metadata machine readability and potential linking to Artificial Intelligence. This presentation will discuss how HydroShare works and some potential AI connections.

Thursday, February 9, 2023 at 12:00 PM ET

Join Zoom Meeting:

<https://osu.zoom.us/j/94025405153?pwd=dVYrdlVhM09UUzM3cHdBFRFICSnZ0UT09>

