



The people and projects listed on this poster are supported by the ESIP Lab, NASA ACCESS Program, and the USGS Community for Data Integration.

They want to talk with you about their work and how it applies to you!

Highlighted people are in attendance at the ESIP Meeting and wearing “Ask Me” badges - please find them and say hello.



- Developing a Cloud-based Open-Source Platform for an Automatic High-throughput Monitoring System to Safeguard Stream Water Quality, **Tao Wen**, Syracuse University
- Cloud-based Open Science Machine Learning Tutorials for Earth Science, **Douglas (Yuhan) Rao**, NCICS
- Comparison of Machine Learning Techniques for Predicting Complex Flows at the Breach of the Great Salt Lake, Som Dutta, Utah State University
- Deep Learning based Submesoscale Ocean Eddy Detection on the Amazon Web Service Cloud, Jianwu Wang, UMBC

ESIP Lab Contact: Annie Burgess

Ask us about our projects!



- Advancing an Open-Access Repository for Earth Observation Training Data and Machine Learning Models, Seyed Hamed Alemohammad, Open Imagery Network, Inc.
- Developing Passive Satellite Cloud Remote Sensing Algorithms Using Collocated Observations, Numerical Simulation and Deep Learning, Jianwu Wang, University of Maryland, Baltimore County
- Enabling Cloud-Based InSAR Science for an Exploding NASA InSAR Data Archive, David Bekaert, NASA's Jet Propulsion Laboratory
- GeoWeaver: Building An Open-Source Platform for Enabling Ad Hoc Management, Open Sharing, and Robust Reuse of NASA Earth Data-Driven Hybrid AI Workflows, **Ziheng Sun**, George Mason University
- GNSS Radio Occultation Data in the AWS Cloud, Stephen Leroy, Atmospheric & Environmental Research, Inc.
- Large-Scale Operational Data Matchup Service for Multiple Platform Types, **Nga Chung**, NASA's Jet Propulsion Laboratory
- Machine Learning Datasets for the Earth's Natural Microwave Emission, Carl Mears, Remote Sensing Systems of California Corporation
- Machine Learning Planet High Resolution Training Data for Medium Resolution Land Cover and Disturbance Mapping, David Roy, Michigan State University
- Pangeo ML: Open Source Tools and Pipelines for Scalable Machine Learning Using NASA Earth Observation Data, Joseph Hamman, University Corporation for Atmospheric Research
- Spatio-Temporal Machine Learning and Cloud Computing for Predicting Dynamics of Global Vegetation Structure from Active Satellite Sensors, Sassan Saatchi, NASA Jet Propulsion Laboratory
- Training Data for Streamflow Estimation, Fritz Policelli, NASA's Goddard Space Flight Center

ACCESS Contact: Sara Lubkin



- Building a USGS community for FAIR & integrated modeling, **Ken Bagstad**, USGS
- Separating the land from the sea: image segmentation in support of coastal hazards research and community early warning systems, **Eric Swanson**, USGS
- Terrain change time machine: creating LiDAR-like historical elevation data, Jessica Dewitt, USGS
- Enhancing Decision Support with Restoration Project Data Pipelines, **Shelley Johnson**, USGS
- Engaging Indigenous Communities to Co-Design a Real-time Monitoring Application to Protect Important Socio-Cultural and Ecological Areas, **Saira Haider**, USGS
- Quantifying landcover drivers of urban extreme heat by generating nationwide and city-specific analytical models, **Peter Ibsen**, USGS
- An open-source interactive time series viewer for geophysical data, **Jared Peacock**, USGS
- Database tools for standardization & automation of eDNA workflows, David Pilliod, USGS
- Circle Round the River: A Summit for Collaborative Sharing of Flood Knowledge with Tribal Colleges and Tribal Environmental Professionals, **Katharine Chase**, USGS
- CorVis: A lidar point cloud tool for visualization and analysis of corridors such as hydrologic, energy, and transportation networks, **Ethan Shavers**, USGS
- Enhancing usability of 3DEP data and web services with Jupyter notebooks, **Cole Speed**, UNAVCO
- Seg2Map: New Tools for ML-based Segmentation of Geospatial Imagery, Jonathan Warrick, USGS

CDI Contact: Leslie Hsu