

Session Program

9-12 Sept 2024



2024 NSF HDR Ecosystem Conference Harvesting the Data Revolution

Poster Session

University of Illinois at Urbana-Champaign, Illinois Conference Center
111 St Marys Rd, Champaign, IL 61820

Tuesday 10 September

17:30

Poster Session

Session | **Location:** Illinois Conference Center, Herritage Hall

17:35-17:36 **Imageomics: FAIR ML Products for Biological Knowledge Discovery**

Speaker

Elizabeth Campolongo

17:36-17:37 **Incorporating phenotypic similarity into trait description embeddings**

Speaker

Soumyashree Kar

17:37-17:38 **Latent Space Phenotyping for Measuring Complex Evolutionary Traits**

Speaker

Caleb Charpentier

17:38-17:39

Hierarchical Conditioning of Diffusion Models Using Tree-of-Life for Studying Species Evolution

Speaker

Mridul Khurana

17:39-17:40

What Do You See in Common? Learning Hierarchical Prototypes over Tree-of-Life to Discover Evolutionary Traits

Speaker

Harish Babu Manogaran

17:40-17:41

BioCLIP: A Vision Foundation Model for the Tree of Life

Speaker

Sam Stevens

17:41-17:42

Education and Outreach in Imageomics: Engaging Communities to Advance Science

Speaker

Diane Boghrat

17:42-17:43

Using Deep Learning to Quantify Phenotypic Similarities in Mimic Butterfly Species using Human, Bird, and Butterfly Acuties

Speaker

Michelle Ramirez

17:43-17:44

Dynamic Network Classification

Speaker

Namrata Banerji

17:44-17:45

Tulane Center for Community-Engaged Artificial Intelligence

Speaker

Aron Culotta

17:45-17:46

Understanding of impact of training size on animal re-identification**Speaker**

Ekaterina Nepovinnikh

17:46-17:47

Practical Leadership for Team Science: Experiences from the Imageomics Institute**Speaker**

Diane Boghrat

17:47-17:48

VLM4Bio: A Benchmark Dataset to Evaluate Pretrained Vision-Language Models for Trait Discovery from Biological Images**Speaker**

Anuj Karpatne

17:48-17:49

What Do You See in Common? Learning Hierarchical Prototypes over Tree-of-Life to Discover Evolutionary Traits**Speaker**

Anuj Karpatne

17:49-17:50

National Data Mine Network**Speaker**

Mark Daniel Ward

17:50-17:51

Fish-Vista: A Multi-Purpose Dataset for Understanding & Identification of Traits from Images**Speaker**

Kazi Sajeed Mehrab

17:51-17:52

Low-cost Efficient Wireless Intelligent Sensors (LEWIS) for Engineering Education: Native American Knowledge for Data Science Education**Speaker**

Fernando Moreu

17:52-17:53

Facilitating Knowledge Sharing and Discovery: Search Functionality and API Design for the I-GUIDE**Speaker**

Yunfan Kang

17:53-17:54

CLV: A Novel Framework for Enhanced Anomaly Detection and Attribution in Multivariate Time Series Data**Speaker**

Tolulope Ale

17:54-17:55

Battling Misinformation through Interdisciplinary Collaboration

Speaker

Zahra Khanjani

17:55-17:56

CMAD: Advancing Understanding of Anomalous Melt Events over the Antarctic Sea Ice**Speaker**

Maloy Kumar Devnath

17:56-17:57

HDR DSC: The Metropolitan Chicago Data-science Corps (MCDC)**Speaker**

Lizhen Shi

17:57-17:58

Neural Network Efficiency Evaluation on the AMD Versal AI Engine**Speaker**

Yilin Shen

17:58-17:59

BaboonLand Dataset: Tracking Primates in the Wild and Automating Behaviour Recognition from Drone Videos**Speaker**

Maksim Kholiavchenko

17:59-18:00

Assessing Annotation Accuracy in Ice Sheets Using Quantitative Metrics**Speaker**

Bayu Tama

18:00-18:01

Genotype to Phenotype Mapping via Deep Learning**Speaker**

David Carlyn

18:01-18:02

Variance Analysis of Brightness Temperature using High-resolution DYAMOND simulations and CRTM in Digital Twin Systems**Speaker**

Chhaya Kulkarni

18:02-18:03

Predicting Sea ice extent over Antarctica using Patch CNN**Speaker**

Sai Vikas Amaraneni

18:03-18:04

HDR DSC: Collaborative Research: Transforming Data Science Education through a Portable and Sustainable Anthropocentric Data Analytics for Community Enrichment (ADACE) Program**Speaker**

Yu Liang

18:04-18:05

Physics-Informed Sea Ice Thickness Prediction**Speaker**

Akila Sampath

18:05-18:06

Probabilistic Prediction of Material Stability: Integrating Convex Hulls into Active Learning

Speaker

Andrew Novick

18:06-18:07

Cyberinfrastructure for Scientific Data Preservation and Image Similarity Search

Speaker

Joshua Agar

18:35