

2023 OAK Supercomputing Fall Conference Little Rock, AR Oct. 24-26, 2023

Tuesday, Oc	tober 24
-------------	----------

NVIDIA Fundamentals of Deep Learning Workshop 9:00A-4:30P

Wednesday, October 25

Check-in & Registration 8:30A-8:45A
Opening Remarks 8:45A-9:00A

Contributed Talks Session 1

Dr. Jacob Monroe, University of Arkansas 9:00A-9:30A
Learning Monte Carlo Move Sets and Molecular Distributions in a Variational Autoencoding Framework

Dr. Dave Ussery, University of Arkansas for Medical Sciences What Can We Learn from a Million Salmonella Genomes?

Elon Turner, ARE-ON 10:00A-10:15A

9:30A-10:00A

Research Networking Ecosystem in Arkansas

Coffee Break 10:15A-10:30A Keynote Address 10:30A-11:30A

Dr. Douglas Kothe, Sandia National Labs

Networking Lunch 11:30A-12:30P

Contributed Talks Session 2 (* indicates student presentation)

Mickey Slimp, Great Plains Network;

Jeremy Evert, Southwestern Oklahoma State University 12:30P-1:00P

Emerging High Performance Computing and the Great Plains Network

Recep Erol*, University of Arkansas at Little Rock 1:00P-1:20P

Heterogeneous Computing for Accelerated Inference: An XAI-Verified Analysis in High Performance Computing (HPC) Environments with Pre-loaded Images

Johnna Berryhill*, Arkansas State University 1:20P-1:40P

Addressing Colorectal Cancer Disparities in Arkansas: Insights from a Study of Social Determinants of Health and Survival Analysis

Poster Setup (Location: Arkansas Capitol Rotunda) 1:40P-2:00P
Poster Session (Location: Arkansas Capitol Rotunda) 2:00P-4:30P



Thursday, October 26

Dr. Doug Spearot, University of Florida 8:45A-9:15A

Simulating Plasticity in Metals at Atomistic and Mesoscopic Length Scales

Dr. Xiaowei Xu, University of Arkansas for Medical Sciences 9:15A-9:45A

Customized Large Language Models for Domain Specific Applications

Shakil Rafi*, University of Arkansas 9:45A-10:05A

SOM-where in Chicago: What self-organizing maps tell us about ride-sharing behavior in Chicago during the

pandemic

Christy Dunlap*, University of Arkansas 10:05A-10:25A

Supercomputing for Machine Learning of Boiling Heat Transfer

Coffee Break 10:25A-10:40A

Contributed Talks Session 4

Dr. Jonathan Stubblefield, Arkansas State University 10:40A-11:10A

Combining Modalities for the Diagnosis of Alzheimer's Disease

Jennifer Fowler, Arkansas Economic Development Commission 11:10A-11:30A

Experiential Learning with National AI Campus

The Future of OAK 11:30A-12:00P

Conference End (Lunch on your own) 12:00P

Intermediate Linux Workshop 1:00P-3:00P

Special Thanks To Our Sponsors:





Workshop Sponsor:

