



**Mountain West
AI & HPC Summit**
Aug. 31st - Sep. 2nd, 2026
UW Conference Center - Laramie WY



Agenda at a Glance

All times Mountain Time. Sessions and times are subject to change.

IMPORTANT!!! FOR HANDS ON SESSIONS: Please bring your own laptop.

Day 1: August 31st, 2026

Start	End	Event	Loc.	Title
7:30 AM	8:10 AM	Registration & Continental Breakfast	Breezeway	
8:15 AM	8:40 AM	Plenary Introduction by Parag Chitnis	Salons C, D & E	Welcome Address by EVP Kraig Sheetz, UW
8:45 AM	9:00 AM	Plenary	Salons C, D & E	NSF ASCEND Engine Vision by Mike Freeman, Innosphere
9:00 AM	9:15 AM	Plenary	Salons C, D & E	AI/HPC Vision by Steve Niemi, NVIDIA

Track A – GPU Computing Skills

Start	End	Event	Loc.	Title
9:20 AM	10:00 AM	Plenary	Salons C, D & E	Four Ways to GPU Computing, NVIDIA
10:00 AM	10:10 AM	Break		
10:10 AM	11:00 AM	Hands-on-DLI	Salons C, D & E	GPU-Accelerated Python DLI, NVIDIA
11:00 AM	11:10 AM	Break		
11:10 AM	11:50 AM	Hands-on-DLI	Salons C, D & E	GPU-Accelerated Python DLI, NVIDIA
12:00 PM	1:00 PM	Lunch and Keynote Address Introduction by Parag Chitnis	Salons C, D & E	AI Across the Disciplines by Dr. Hans van Oostrom, Director, AI2 Center, University of Florida
1:10 PM	2:15 PM	Hands-on	Salons C, D & E	Project Mapping Clinic and Transition to Scaling, NVIDIA
3:30 PM	4:30 PM	Plenary Introduction by Daniel McCoy	Salons C, D & E	NVIDIA Research by Mike Pritchard, Director of Climate Simulation Research, NVIDIA

Track B – Applied AI: Advanced Sensing and Computation for Environmental Decision Making

Start	End	Event	Loc.	Title	Event	Loc	Title
10:10 AM	11:00 AM	Talk Introduction by Sam Malloy	Salons F & G	AI-Accelerated Earth-System Downscaling by Stefan Rahimi	Lightning Talks – Session 1	Salon B	Topic: Joint Human-AI Systems and Machine Learning Applications Moderator: Andrew Kirby
11:00 AM	11:10 AM	Break					

Start	End	Event	Loc.	Title	Event	Loc	Title
11:10 AM	11:50 AM	Panel	Salons F & G	Hail Modeling Moderator: Scott Mackaro	Lightning Talks – Session 2	Salon B	Topic: AI Applications in Manufacturing & Autonomous Systems Moderator: Alathea Davies
12:00 PM	1:00 PM	Lunch and Keynote Address Introduction by Parag Chitnis	Salons C, D & E	AI Across the Disciplines by Dr. Hans van Oostrom, Director, AI2 Center, University of Florida			
1:10 PM	2:15 PM	Panel	Salons F & G	Wildfire Modeling – Moderator: Virginia Iglesias	Lightning Talks – Session 3	Salon B	Topic: AI Applications in Computer Vision Moderator: Vinit Katariya
2:15 PM	2:30 PM	Break					
2:30 PM	3:15 PM	Panel	Salons F & G	Soil Monitoring & Edge Computing for Agriculture – Moderator: Mike SanClements, NSF NEON	Lightning Talks – Session 4	Salon B	Topic: AI & Quantum Algorithms Moderator: Suresh Muknahallipatna

Evening Reception and Dinner

Start	End	Event	Loc.	Title
5:00 PM	5:30 PM	Reception and Guest Networking	Reception Area	Attendees and Invited Guests
5:30 PM	6:20 PM	Dinner Buffet Open	Salons C, D & E	
6:20 PM	6:25 PM	Welcome by EVP Kraig Sheetz, UW	Event Stage	
6:25 PM	7:25 PM	Fireside Chat	Event Stage	Governor Mark Gordon; Chris Malachowsky, NVIDIA Co-Founder, and President Shane Reeves, UW
7:25 PM	7:30 PM	Closing Remarks by EVP Kraig Sheetz, UW	Event Stage	

Day 2: September 1st, 2026

Start	End	Event	Loc.	Title
7:30 AM	8:10 AM	Continental Breakfast	Breezeway	

Track A – GPU Computing Skills & Profiling

Start	End	Event	Loc.	Title
8:15 AM	8:30 AM	Plenary	Salons C, D & E	Recap and Scale-Up Framing, NVIDIA
8:30 AM	9:15 AM	Plenary	Salons C, D & E	Multi-GPU PyTorch and DDP, NVIDIA
9:15 AM	9:30 AM	Break		
9:30 AM	10:00 AM	Hands-on	Salons C, D & E	Hands-on- Guided Lab: DDP Job Anatomy, NVIDIA
10:15 AM	11:00 AM	Plenary Introduction by Raghu Raj Kumar	Salons C, D & E	Quantum Computing by Ester de Nicolas Benito, NVIDIA
11:00 AM	11:10 AM	Break		
11:10 AM	12:00 PM	Talk & Demo	Salons C, D & E	Nsight Systems & Compute Workflow, NVIDIA
12:00 PM	1:00 PM	Lunch and Keynote Address Introduction by Chris Malachowsky	Salons C, D & E	Transforming Education through Digital Assets (Data, Compute, AI) in the Classroom by Dr. Frank Wuerthwein, Director, San Diego Supercomputer Center
1:10 PM	2:00 PM	Hands-on	Salons C, D & E	Profiling Lab: Find the Bottleneck, NVIDIA
2:00 PM	2:15 PM	Break		
2:15 PM	3:00 PM	Plenary Introduction by Alatheia Davies	Salons C, D & E	Evaluating AI for Science: Establishing Minimum Standards and a Path Forward by Michael Overton, University of Idaho
3:00 PM	3:10 PM	Break		
3:10 PM	4:00 PM	Talk & Demo Introduction by Suresh	Salons F & G	UW Research Computing Resources, ARCC

Track B – Applied AI, GPU and Quantum Computing

Start	End	Event	Loc.	Title	Event	Loc	Title
10:15 AM	11:00 AM	Lightning Talks – Session 1	Salon A	Topic: AI and HPC Applications in Earth Sciences Moderator: Sam Malloy	Lightning Talks – Session 2	Salon B	Topic: Joint Human-AI Systems and Machine Learning Applications Moderator: Andrew Kirby
11:00 AM	11:10 AM	Break					
11:10 AM	12:00 PM	Talk Introduction by A. Davis	Salons F & G	Fluid Intelligence: Using LLMs to Write and Optimize High-Performance Computational Fluid Dynamics Software by Andrew Kirby, School of Computing, UW	Lightning Talks – Session 3	Salon B	Topic: AI and HPC Applications in Earth Sciences Moderator: Daniel McCoy
12:00 PM	1:00 PM	Lunch and Keynote Address Introduction by Chris Malachowsky	Salons C, D & E	Transforming Education through Digital Assets (Data, Compute, AI) in the Classroom by Dr. Frank Wuerthwein, Director, San Diego Supercomputer Center			

Start	End	Event	Loc.	Title	Event	Loc	Title
1:10 PM	1:35 PM	Talk Introduction by Sam Malloy	Salons F & G	1. Airborne Intelligent Robotic System for Environmental Sensing (AIR- SENSE) by Eric Frew	Lightning Talks – Session 4	Salon B	Topic: AI & Quantum Algorithms Moderator: Suresh Muknahallipatna
1:35 PM	2:00 PM	Talk Introduction by Sam Malloy	Salons F & G	2. Linking wildfire smoke forecasting with actionable health information by Ryan Luginbuhl	Lightning Talks – Session 5	Salon A	Topic: AI Applications in Manufacturing & Autonomous Systems Moderator: Alathea Davies
3:10 PM	4:00 PM	Hands-on	Salons C, D & E	Build & Simulate a Dyad Model by Benn Stratton	Lightning Talks – Session 6	Salon B	Topic: AI Applications in Computer Vision Moderator: Vinit Katariya

Day 3: September 2nd, 2026

Start	End	Event	Loc.	Title
7:30 AM	8:10 AM	Continental Breakfast	Breezeway	

Track A – Applied AI

Start	End	Event	Loc.	Title
8:15 AM	8:30 AM	Talk	Salons C, D & E	Framing: Weather AI Workflow End-to-End, NVIDIA
8:30 AM	9:15 AM	Talk	Salons C, D & E	Earth2Studio Overview: Inference Workflows, NVIDIA
9:15 AM	9:30 AM	Break		
9:30 AM	11:00 AM	Hands-on	Salons C, D & E	Lab 1: Run a Deterministic Weather Forecast, NVIDIA
11:00 AM	11:10 AM	Break		
11:10 AM	12:00 PM	Talk & Demo	Salons C, D & E	PhysicsNeMo Overview: Training & Fine-Tuning Physics AI Models, NVIDIA
12:00 PM	1:00 PM	Lunch	Salons C, D & E	Wrap-up by Parag Chitnis, Steve Niemi, and Sam Malloy
1:10 PM	2:30 PM	Hands-on	Salons C, D & E	Lab 2: Train or Fine-Tune a Weather Model Recipe, NVIDIA

Track B – AI and Emergent Technologies

Start	End	Event	Loc.	Title	Event	Loc	Title
8:30 AM	9:15 AM	Talk Introduction by Sam Malloy	Salon A	Thermal Imaging Super- resolution & Advanced Sensing by Longji Cui	Talk Introduction by Suresh Muknahallipatna	Salon B	UW Quantum Computing Research Roadmap by Jifa Tian & A. P. Petrovic, Physics & Astronomy, UW
9:15 AM	9:30 AM	Break					
9:30 AM	10:15 AM	Talk Introduction by Andrew Kirby	Salon A	From drops to digits to decadal prediction: scale problems in the Earth system by Daniel McCoy, Atmospheric Science, UW	Talk Introduction by Suresh Muknahallipatna	Salon B	Quantum phenomena and their applications in AI and HPC by Hasan Iqbal, EECS, UW
10:15 AM	11:00 AM	Talk	Salon B	Edge AI by Zoe Ryan, NVIDIA			
11:00 AM	11:15 AM	Break					
11:15 AM	12:00 PM	Talk Introduction by Alathea Davis	Salon B	Computationally Informed Design of Porous Organic Frameworks for Semiconductor Applications by Laura Rita de Sousa Oliveira, Chemistry, UW			
12:00 PM	1:00 PM	Lunch	Salons C, D & E	Wrap-up by Parag Chitnis, Steve Niemi, and Sam Malloy			