Mountain West
AI & HPC Summit
Aug. 31st - Sep. 2, 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	Salons D & E	Introduction by VP Chitnis Welcome Address by UW President Reeves, UW
8:45 AM	9:00 AM	Plenary	Salons D & E	NSF ASCEND Engine Vision by Mike Freeman, Innosphere
9:00 AM	9:15 AM	Plenary	Salons D & E	AI/HPC Vision by Steve Niemi, NVIDIA

Track A – GPU Computing Skills

Start	End	Event	Loc.	Title
9:20 AM	10:10 AM	Plenary	Salons D & E	Four Ways to GPU Computing, NVIDIA
10:15 AM	11:00 AM	Hands-on-DLI	Salon C	GPU Accelerated Python DLI, NVIDIA
11:00 AM	11:10 AM	Break		
11:10 AM	11:50 PM	Hands-on-DLI	Salon C	GPU Accelerated Python DLI, NVIDIA
12:00 PM	1:00 PM	Lunch and Keynote Address	Salons 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	Salon C	Project Mapping Clinic and Transition to Scaling, NVIDIA
3:30 PM	4:30 PM	Plenary	Salons 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
10:15 AM	11:00 AM	Talk	Salon A	AI-Accelerated Earth-System Downscaling by Stefan Rahimi			
11:00 AM	11:10 AM	Break					
11:10 AM	11:50 AM	Lightning Talks	Salon A	Moderator	Panel	Salon B	Hail Modeling - Moderator Kristen
12:00 PM	1:00 PM	Lunch and Keynote Address	Salons D & E	AI Across the Disciplines: Dr. Hans van Oostrom, Dir., AI2 Center, University of Florida.			

1:10 PM	2:15 PM	Lightning Talks	Salon A	Moderator	Panel	Salon B	Wildfire Modeling – Moderator Virginia Iglesias
2:15 PM	2:30 PM	Break					
2:30 PM	3:15 PM	Lightning Talks	Salon A	Moderator	Panel	Salon B	Soil Monitoring & Edge Computing for Agriculture – Moderator Mike SanClements, NSF NEON

Evening Reception and Dinner

Start	End	Event	Loc.	Title
5:00 PM	5:45 PM	Reception and Guest Networking	Reception Area	Attendees & Invited Guests
6:30 PM	6:45 PM	Introduction	Event Stage	
6:45 PM	7:30 PM	Fireside Chat, Host – Pres. Reeves	Event Stage	
7:30 PM	7:45 PM	Additional Remarks and Closing by VP Chitnis	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 D & E	Recap and Scale-Up Framing, NVIDIA
8:30 AM	9:15 AM	Plenary	Salons D & E	Multi-GPU PyTorch and DDP, NVIDIA
9:15 AM	9:30 AM	Break		
9:30 AM	10:00 AM	Plenary	Salons D & E	Quantum Computing, NVIDIA
10:15 AM	11:00 AM	Hands-on	Salon C	Guided Lab: DDP Job Anatomy, NVIDIA
11:00 AM	11:10 AM	Break		
11:10 AM	12:00 PM	Talk & Demo	Salon C	Nsight Systems & Compute Workflow, NVIDIA
12:00 PM	1:00 PM	Lunch and Keynote Address	Salons D & E	Transforming Education through Digital Assets (Data, Compute, AI) in the Classroom: Dr. Frank Wuerthwein, Director, San Diego Supercomputer Center.
1:10 PM	2:00 PM	Hands-on	Salon C	Profiling Lab: Find the Bottleneck, NVIDIA
2:00 PM	2:15 PM	Break		
2:15 PM	3:00 PM	Plenary	Salons 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	Salon C	UW Research Computing Resources, ARCC

Track B – Applied AI, GPU and Quantum Computing

Start	End	Event	Loc.	Title
10:15 AM	11:00 AM	Lightning Talks	Salon A	Moderator
11:00 AM	11:10 AM	Break		
11:10 AM	12:00 PM	Talk	Salon A	Fluid Intelligence: Using LLMs to Write and Optimize High-Performance Computational Fluid Dynamics Software by Andrew Kirby, School of Computing, UW
12:00 PM	1:00 PM	Lunch and Keynote Address	Salons 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	Talk	Salon A	Scientific ML for Earth System Modeling by Greg Warner
3:10 PM	4:00 PM	Hands-on	Salon A	Build & Simulate a Dyad Model by Benn Stratton
4:00 PM	4:30 PM	Panel	Salon A	CO/WY AI Project Clinic and Next Steps

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 D & E	Framing: Weather AI Workflow End-to-End, NVIDIA
8:30 AM	9:15 AM	Talk	Salons D & E	Earth2Studio Overview: Inference Workflows, NVIDIA
9:15 AM	9:30 AM	Break		
9:30 AM	11:00 AM	Hands-on	Salon C	Lab 1: Run a Deterministic Weather Forecast, NVIDIA
11:00 AM	11:10 AM	Break		
11:10 AM	12:00 PM	Talk & Demo	Salon C	PhysicsNeMo Overview: Training & Fine-Tuning Physics AI Models, NVIDIA
12:00 PM	1:00 PM	Lunch	Salons D & E	
1:10 PM	2:30 PM	Hands-on	Salon C	Lab 2: Train or Fine-Tune a Weather Model Recipe, NVIDIA
2:30 PM	2:45 PM	Break		
2:45 PM	3:30 PM	Plenary	Salons D & E	Wrap up by Parag Chitnis, Kraig Sheetz, and Sam Malloy

Track B – AI and Emergent Technologies

Start	End	Event	Loc.	Title
8:30 AM	9:15 AM	Talk	Salon A	Thermal Imaging Super-resolution & Advanced Sensing by Longji Cui

9:15 AM	**9:30 AM**	Break		
9:30 AM	**10:15 AM**	Talk	Salon A	From drops to digits to decadal prediction: scale problems in the Earth system by Daniel McCoy, Atmospheric Science, UW
10:15 AM	**11:00 AM**	Talk	Salon A	Edge AI by Zoe Ryan, NVIDIA
11:00 AM	**11:15 AM**	Break		
11:15 AM	**12:00 PM**	Talk	Salon A	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 D & E	
1:10 PM	**1:45 PM**	Talk	Salon A	UW Quantum Computing Research Roadmap by Jifa Tian, Physics & Astronomy, UW
1:45 PM	**2:15 PM**	Talk	Salon A	Elevate Quantum Computing