AI Unlocked: Empowering Higher Ed through Research and Discovery

During the Workshop:

Meeting space will be available in Lawrence A&B for people to use to connect, have conversations, or to check email. Appointments with resource providers to receive project help will occur in this room. Link to make appointments will be sent out via email.

Only accepted applicants will be permitted to participate in the workshop. Badges will be checked during the workshop.

Wednesday, April 2, 2025

All

08:00 am – 08:45 am:	Breakfast and Registration, *Ballroom*
08:45 am – 09:05 am:	Introduction to workshop*, Ballroom*
	Shelley Knuth, University of Colorado-Boulder
09:05 am – 09:15 am:	Transition to workshop spaces (Track 1 in *Platte River* and Track 2 in the *Ballroom*)

Track 1 - Beginner

09:15 am – 10:30 am:	Introduction to AI*, Platte River*
	Nabeel Alzahrani, California State University, San Bernardino
10:30 am – 10:45 am:	Break, *Mezzanine*
10:45 am – 12:15 pm:	How to use an HPC system, *Platte River*
	Mary Thomas, San Diego Supercomputing Center
12:15 pm – 01:00 pm:	Lunch, *Mezzanine and Ballroom*
01:00 pm – 01:45 pm:	Overview of AI tools and applications*, Platte River*
	Gil Speyer, Arizona State University
01:45 pm – 02:30 pm:	AI in the Classroom: Practical Applications and Early Results*, Platte River*
	Bobby Hodgkinson, University of Colorado Boulder
02:30 pm – 03:00 pm:	Break, *Mezzanine*
03:00 pm – 04:30 pm:	Submitting an AI job, *Platte River*
	Mary Thomas, San Diego Supercomputing Center
04:30 pm – 05:00 pm:	Wrap Up, *Platte River*
	Marisa Brazil, Arizona State University
05:00 pm – 06:00 pm:	Break, *On Your Own*
06:00 pm – 08:00 pm:	Reception, *Mezzanine*

Track 2 – Intermediate to Advanced

09:15 am – 10:00 am:	Getting access to NAIRR Pilot resources, *Ballroom*
	Timothy Middelkoop and Lauren Michael, Internet2
10:00 am – 10:30 am:	Computational resources for AI, *Ballroom*
	Dave Hart, National Center for Atmospheric Research (NCAR)
10:30 am – 10:45 am:	Break, *Mezzanine*
10:45 am – 12:15 pm:	Deep Learning vs. Machine Learning, *Ballroom*
	Paola A. Buitrago, Pittsburgh Supercomputing Center
12:15 pm – 01:00 pm:	*Lunch, Mezzanine and Ballroom*
01:00 pm – 02:45 pm:	AWS Tools Showcase, *Ballroom*
	Jack Fenwick, Amazon Web Services
02:45 pm – 03:00 pm:	Break, *Mezzanine*
03:00 pm – 04:30 pm:	AI Using Large Language Models (LLMs), *Ballroom*
	Danny Havert, Indiana University
04:30 pm – 05:30 pm:	AI Tool Lightning Talks (6 mini-talks), *Ballroom*
	Cerebras, Databricks, Google, Microsoft, SambaNova, Cloudbank
05:30 pm:	Wrap Up, *Ballroom*
	Alana Romanella, University of Colorado-Boulder
05:30 pm – 06:00 pm:	Break, *On Your Own*
06:00 pm – 08:00 pm:	Reception, *Mezzanine*

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Thursday, April 3, 2025

All

08:00 am – 08:45 am:	Breakfast and Registration, *Ballroom*
08:45 am – 09:05 am:	Introduction to workshop, *Ballroom*
	Marisa Brazil, Arizona State University
09:05 am – 09:15 am:	Transition to workshop spaces (Track 1 in *Platte River* and Track 2 in the *Ballroom*)

Track 1 - Beginner

09:15 am – 10:45 am:	Workflows and AI, *Platte River*
	Mats Rynge, University of Southern California
10:45 am – 11:00 am:	Break, *Mezzanine*

11:00 am – 11:45 am:	Getting access to NAIRR Pilot resources, *Ballroom* Timothy Middelkoop and Lauren Michael, Internet2
11:45 am – 12:00 pm:	Wrap Up, *Platte River* Nitin Sukhija, Slippery Rock University
12:00 pm – 01:30 pm:	Optional session - extra hands-on support (appointment required), *Lawrence A&B*

Track 2 – Intermediate to Advanced

09:15 am – 10:45 am:	Introduction to PyTorch, *Ballroom* Lonnie Crosby, University of Tennessee-Knoxville
10:45 am – 11:00 am:	Break, *Mezzanine*
11:00 am – 12:30 pm:	Introduction to TensorFlow, *Ballroom* Mahidhar Tatineni, San Diego Supercomputing Center
12:30 pm – 12:45 pm:	Wrap Up, *Ballroom* Nitin Sukhija, Slippery Rock University
12:45 pm – 01:30 pm:	Optional session - extra hands-on support (appointment required), *Lawrence A&B*

Workshop Support Staff
Aditya Challa, AWS
Andrew Pasquale, Massachusetts Green High Performance Computing Center (MGHPCC)
Artem Pimachev, University of Colorado-Boulder
Bill Snyder, AWS
Brent Smith, Arizona State University
Burch Fisher, University of Maryland Center for Environmental Sciences
Dana O'Connor, Pittsburgh Supercomputing Center
Daniel Howard, National Center for Atmospheric Research (NCAR)
Devin Bayly, University of Arizona
Evan Jaffe, Ohio Supercomputer Center (OSC)
Haniye Kashgarani, Purdue University
Ibrahem Alshybani, Purdue University
Jason Armbruster, University of Colorado Boulder
Joelle Rossback-Dahl, AWS
Juanjo Garcia, Arizona State University
Juliana Duncan, Texas Advanced Computing Center (TACC)
Karan Vahi, University of Southern California
Lauren Michael, Internet2
Lauren Prox, Duke University
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NAIRR User Experience Working Group Members
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Marisa Brazil, Arizona State University
Nitin Sukhija, Slippery Rock University
Shelley Knuth, University of Colorado-Boulder