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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT

Data Science Institute

The Data Drip

A DIGEST OF DATA SCIENCE NEWS AT THE UNIVERSITY OF ARIZONA

DATA SCIENCE INSTITUTE

Special Edition / January 2025

They are here - Spring 2025 U of A DataLab Workshop series and sessions!

Review the list of workshop series, register, and attend the workshop sessions that interest you!

The successful Fall 2024 workshop series consisted of 48 sessions with an attendance of over 830 learners. The Spring 2025 workshop series continues with emphasis on the use of Large Language Models (LLM) for research applications across multiple domains. Powered by the new generation of **foundation models**, these new generation multimodal LLMs can be adapted for specific tasks that range from image segmentation, object recognition, counting and tracking multiple objects in videos to extracting and summarizing text and audio. Learn how to organize massive amounts of data, train and tune these models, and integrate them into your analysis that can run on computational infrastructure in your own lab, campus, and at no cost NSF resources. Come join us to learn how to build your end-to-end AI powered application and collaborate with U of A DataLab practitioners and subject matter experts.

- Register for workshops to attend in-person or to get the Zoom link.
- Unless otherwise noted, workshop sessions meet at **Weaver Science-Engineering Library**, room 212 and on Zoom.
- Later in the semester, workshop sessions will be available on the **UArizona DataLab YouTube channel**.

Help spread the word. Share these **U of A DataLab** opportunities

with your students, departments, colleagues, and friends.

TUESDAYS	WEDNESDAYS	THURSDAYS	FRIDAYS
Research Productivity 10:00 - 11:30 AM	Data Science Tapas 1:00 - 2:00 PM	Research Productivity 10:00-11:30 AM	CyVerse Office Hours 10:00 - 11:00 AM
Classical Machine Learning 1:00 - 2:00 PM		NLP for All 12:00 - 1:00 PM	CyVerse Webinars 10:00-10:30 AM
Functional Open Science Skills for AI/ML Applications 2:00 - 3:00 PM		Mastering Generative AI Foundation Models for Research 1:00 - 2:00 PM	
AI Makerspace Meetup Snakes & Lattes 3:30 - 4:30 PM		Bioinformatics & Genomics 2:00 - 3:00 PM	

Spring 2025 U of A DataLab Workshops
Weaver Science & Engineering Library
Room 212 or Zoom
Register for in-person and Zoom link

U of A DataLab Spring 2025

Tuesdays

- 10:00 - 11:30 AM [Research Productivity Workshops](#) (Zoom only) [[Register](#)]
- 1:00 - 2:00 PM [Classical Machine Learning](#) [[Register](#)]
- 2:00 - 3:00 PM [Functional Open Science Skills for AI/ML Applications](#) [[Register](#)]
- 3:30 - 4:30 PM [AI Makerspace Meetup](#) [[Register](#)]

Wednesdays

- 1:00 – 2:00 PM [Data Science Tapas](#) [[Register](#)]

Thursdays

- 12:00 - 1:00 PM [Natural Language Processing \(NLP\) for All](#) [[Register](#)]
- 1:00 - 2:00 PM [Mastering Generative AI Foundation Models for Research](#) [[Register](#)]
- 2:00 - 3:00 PM [Bioinformatics & Genomics From Data Analysis to AI Applications](#) [[Register](#)]

Fridays

10:00 - 11:00 AM [CyVerse Office Hours](#) [[Register](#)] - Meet in [BSRL Lobby](#)

10:00 - 10:30 AM [CyVerse Webinars](#) [[Register](#)]

Through interdisciplinary workshops, consultations, and a range of tools and resources, the U of A DataLab empowers researchers, students, and industry partners to harness the potential of AI and data-driven discovery. Explore AI applications in engineering, life sciences, genomics, healthcare, and more; and boost research productivity with expert-led weekly sessions.

Get answers to your U of A DataLab questions by contacting the various workshop presenters: [Devin Bayly](#), [Greg Chism](#), [Michele Cosi](#), [Nick Eddy](#), [Clément Goubert](#), [Megh Krishnaswamy](#), [Carlos Lizárraga](#), [Simona Merlini](#), [Enrique Noriega](#), and [Rudy Salcido](#). You are welcome to join the conversation on the [UA Data Science Slack channel #datalab-chatter](#).

If there are topics that you would like to have covered in the U of A DataLab workshops, please [email to let us know](#).

NEWS & ACTIVITIES

Do share - It's Data Privacy Day on Jan. 28th

Industry leaders and privacy experts from Arizona's tri-universities are coming together at a virtual panel discussion to tackle one of today's biggest challenges—privacy in a world driven by AI and big data. Don't miss this unique opportunity to learn how academia is navigating this complex landscape.

[RSVP](#) to attend.

We'll be celebrating Love Your Data Week - Feb. 10 - 14, 2025!

More details on campuswide activities coming soon. But here's a sneak peek into a couple of University of Arizona Love Your Data Week activities where you can join us.

- **ChatGPT for Academics** on February 13th, 9:00 AM - 1:00 PM at ENR-2, Rm S225. [Reserve your seat now](#), as space is limited.
- **AI Zone** presentations - pop-ups north and south of Speedway
- And more...

Share The Data Drip!

Share The Data Drip with your friends and colleagues who can subscribe by [completing this brief form](#). If you have data science news or events that you want to share in The Data Drip or on the DSI website, send us an [email](#).



CALENDAR

Review the [DSI calendar of events](#) page for data science activities and workshops from across campus. Complete the [DSI calendar request form](#) to have your data science event listed in The Data Drip or on the DSI calendar of events page.

Jan
28

[Data Privacy Day 2025: Privacy in the Age of AI and Big Data](#)

Join industry leaders and privacy experts from Arizona's tri-universities as they tackle one of today's biggest challenges—privacy in a world driven by AI and big data.

Jan
28

[Leadership through Project Management: Team Culture Tips for Successful Research Projects](#)

This session introduces a fresh perspective grounded in characteristics of successful leadership: humility, authenticity, and a positive mental attitude.

Jan
28

[Intro to Scikit-Learn](#)

Dive into the tools and concepts you need to choose, design, and deploy ML models. Brush up on the fundamentals of big data analysis, and access our fantastic resources!

Jan
28

[The moving parts of Functional Open Science](#)

This session provides an introduction to the ecosystem that enables modern science to be collaborative, transparent, and scalable.

Jan
28 **AI Makerspace Meetup**
Join us at Snake & Lattes on University Blvd. while we sit down to code and discuss how to build AI applications with U of A DataLab scientists.

Jan
30 **Introduction to NLP with SpaCy**
This session is on the basics of Natural Language Processing (NLP) with spaCy, an open-source library for advanced text processing in Python.

Jan
30 **Scaling up Ollama: Local, CyVerse, HPC**
Learn to deploy and scale large language models with Ollama across diverse computational environments.

Jan
30 **Sequence manipulation, alignment, and assessment**
Enhance sequence manipulation for sequencing data preparation; improve alignment skills using various tools; and understand the assessment of alignment quality.

Spring
Semester
2025 **UA DataLab Workshops series and sessions**
Expert-led sessions with AI & Cloud Tools for Geographic Analysis; AI Applications in Engineering, Life Sciences, Genomics, Healthcare; and more.

Yes! Add me to the DSI email list.

Subscribe to be added to the Data Science Institute email list. Or **email the Data Science Institute** so we can be of assistance to you and your research.

SUBSCRIBE TO THE DATA DRIP

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Land Acknowledgment

We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.