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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT

Data Science Institute

The Data Drip



DATA SCIENCE INSTITUTE (DSI)

RII, Meet Yourself!

Introducing DSI & CyVerse!

[Learn more](#) about the various units with Research Innovation & Impact including the Data Science Institute and CyVerse. Save the dates on your calendar for their [RII, Meet Yourself!](#) presentations.

- Data Science Institute: February 8, 2024
- CyVerse: March 14, 2024

UArizona RSE Group includes research software professionals

The UArizona Research Software Engineers (RSE) Group that [DSI](#), [ICDI](#), and other UArizona departments are forming on campus include research software professionals such as Software Engineers, User Experience/User Design Specialists, Application Developers, DevOps Engineers, Research Engineers, Research Scientist, and more. The UArizona RSE will help build a campus community to support the UArizona research mission. Join to learn more or be part of the UArizona RSE Group by emailing RII-datascienceinstitute@arizona.edu.



UArizona Data Lab Spring 2024 enhanced workshops

Since Fall 2023, the [UArizona Data Lab](#) with the Data Science Institute has been successful in addressing key topics in data science. The Data Lab focuses on skills required when working with modern computing languages, data science tools, and AI. While remaining at the forefront of scientific advancement, in Spring 2024 the Data Lab will offer an enhanced curriculum by introducing workshops covering essential topics such as Git and GitHub, Cloud Computing resources and immersive sessions in Machine and Deep Learning and Geospatial Data Science. Check often for Spring semester workshops and activities on the [DSI calendar](#) of events.



Veteran applies military leadership skills to Health Sciences program

U.S. Marine Corps veteran [Rudy Salcido](#) uses the leadership skills he learned in combat to advance the [Data Science Fellows Program](#) and [Soteria](#).



[Read more](#) in the full UAHS article.

Hitting the mark for UArizona

[Data Science Institute](#) colleagues, family, and friends celebrated with [Tina L. Johnson](#) as the UArizona Sankofa Black Staff and Faculty Association recognized her with the inaugural Buffalo Soldier Make Your Mark Award which honors one faculty and one staff member who stands out for making a difference for Black lives at UArizona.



[DSI CALENDAR](#)

Be sure to check regularly the [Data Science Institute's calendar](#) for information about

useful data science workshops, trainings, and events offered by the Data Science Institute, UArizona Data Lab, and other departments across campus.

NEWS AND ACTIVITIES



Coming soon, Foundational Open Science Skills (FOSS) workshops

Up your game with [Foundational Open Science Skills \(FOSS\)](#), an 8-week long virtual workshop that will ground you in the principles, practices and open source tools of Open Science. No prerequisite knowledge needed, although familiarity with Unix and Git will be helpful. Whether you are doing research, teaching, or writing a proposal, gain the key skills that funders, collaborators, and students are seeking today. Learn more about how you can use FOSS training with your research. Open and free to UArizona students, faculty, and staff.

- January 25 - March 14, 2024, Thursdays, 11 am - 1 pm
- Registration coming soon!



Celebrating success with Roots for Resilience Fall 2023 cohort

The [Roots for Resilience](#) 2023 Fall cohort met with AIR Director Sharon Collinge and DSI Director Nirav Merchant recently to discuss their R4R experience including how the [CyVerse FOSS](#) workshops have helped with their research.



- "Roots for Resilience has mainly taught me to be a more independent and organized researcher."
- "Learned about new and useful research tools that we seldom have opportunity to learn elsewhere."

- "This cohort has taught me to preserve data and enabled me to make it reusable for others too! Research is now truly open!"

[View their full profiles](#) to learn more about each cohort member's research and to view their department presentations.



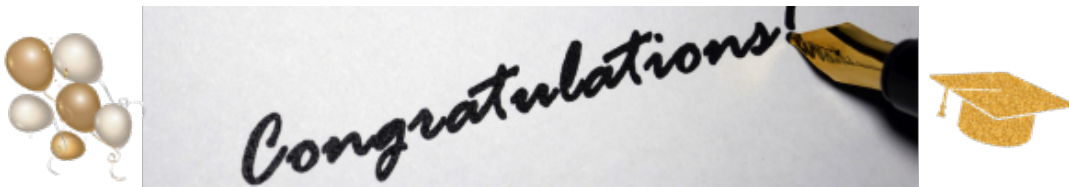
Popular Data Science Fellows program completes Fall 2023 session

Congratulations to the Fall 2023 [Data Science Fellows](#) program cohort for completing the program: Elizabeth Borden, Arushi Chalke, Lateefah Collingwood, Andrew Klein, Jennifer Kraszewski, Stephanie Mallahan, and Simona Merlini. Look for the DSF Spring 2024 cohort in January.



WiDS Tucson Conference planning underway

The Women in Data Science Tucson conference is in its initial planning phase. Contact [Kristina Riemer](#) if you are interested in planning or want more information about the 2024 [WiDS Tucson](#) conference.



The Data Science Institute and CyVerse extends the sincere "Congratulation and Best Wishes" to our Fall 2023 graduates!

- [Ankit Pal](#), M.S. in Data Science from the University of Arizona
- [Mariah Wall](#), M.S. in User Experience (UX) from Arizona State University

- December 6, 11-1 PM : [Sharing your research with Quarto reports](#) workshop - learn how to use Quarto to document your research and share it publicly or privately.
- January 24, 11 AM: [Demystifying APIs for Researchers](#) workshop - learn what an API is, how to access data using APIs, and how to write R code to automate downloading data from APIs using the httr2 package.
- Fridays, 12-2 PM: [Bayesian Learning Group](#) - collaborate in this peer-to-peer learning group working through foundational concepts in Bayesian statistics.



Conduct research in a secure data analysis enclave with Soteria

[Soteria](#) changes the way researchers analyze and manage projects with protected data like PII and PHI. Soteria is a secure data and analysis enclave where teams can collaboratively organize and analyze data while adhering to compliance requirements associated with protected data. Resources and state-of-the-art tools are available through Soteria. Explore which tools can help propel your research.

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Free UArizona CyVerse accounts

Get your free UArizona CyVerse account thanks to the Technology and Research Initiative Fund (TRIF) and the UArizona CyVerse subscription with over 2,500 Academic Pro accounts.

[Get your UArizona CyVerse account](#)



Spotlight you and your research!

The Data Drip will highlight UArizona students, faculty, staff, research, data science projects, tools, and/or software. DSI wants to shine the light on you. Let us know what you want to share.

[Email us to contact you](#)

MUSINGS AND OPINIONS

The views and opinions expressed in *The Data Drip* do not necessarily reflect the official policy or position of the UArizona Data Science Institute or the University of Arizona.

DSI Spotlights...

Research Software Professional Brings UX to the Forefront of CyVerse

As the CyVerse User Experience & App Developer, Mariah Wall applies her expertise and her newly minted M.S. in User Experience (UX) from Arizona State University to creatively problem-solve, helping our Research Software Engineers (RSE) and Professionals (RSP) with web design, graphic design, illustration, and UI/UX design.

[READ MORE](#)



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or on the [Data Science Institute](#) website.



The UArizona data science community is reading and sharing...

- [Building Next Generation Applications Using Generative AI | Transforming Data with Intelligence](#)
- [Confusing git terminology](#)
- [Research Software Engineers: Creating a Career Path—and a Career](#)
- [INTERSECT Bootcamp '23](#)
- [LLMs in the Real World: Structuring Text with Declarative NLP](#)
- [The Mirai Confessions: Three Young Hackers Who Built a Web-Killing Monster Finally Tell Their Story](#)
- [Underage Workers Are Training AI](#)
- [Culture Passes](#)
- [Women in ML Symposium 2023](#)
- [Specify what you want it to build, the AI asks for clarification, and then builds it](#)
- [Amazon's \\$195 thin clients are repurposed Fire TV Cubes](#)
- [StreamingLLM gives language models unlimited context](#)
- [Amended Complaint – #129 in Andersen v. Stability AI Ltd. \(N.D. Cal., 3:23-cv-00201\) – CourtListener.com](#)
- [Git discussion bingo](#)
- [How-To: Papercraft Enigma Machine](#)
- [Is My Toddler a Stochastic Parrot?](#)

Read more news about the UArizona data science community on the [Data Science Institute news](#) site.

CALENDAR

Data science workshops are available across campus. Take a look at the DSI [calendar](#) of events for more workshops. To see your data science events listed below and on the DSI Events page, complete the DSI [calendar](#) request form.

DEC
06

UArizona Data Lab: Quantum AI

Start with an introduction to neural networks, which form the foundation of deep learning. Then use state-of-the-art deep learning models for various tasks, all from your laptop.

DEC
07

Women in ML Symposium (Hosted by Google)

Learn the latest in machine learning at the third annual Women in ML Symposium.

DEC
27

End-to-end data science workflows with Posit Team

The workshop is aimed at graduate students and researchers at all stages of their education and careers who wish to learn computational tools to increase the reproducibility and efficiency of their work.

Jan 19-
Apr 26

CCT Bayesian Learning Group

8 biweekly sessions in a peer-to-peer learning collaborative while working through foundational concepts in Bayesian statistics.

JAN
24

CCT Demystifying APIs for Researchers

Learn what an API is, how to access data using APIs, and how to write R code to automate downloading data from APIs using the httr2 package.

JAN
31

End-to-end data science workflows with Posit Team

Posit will walk through an end-to-end data science workflow and demo the core functionality of Posit Team while highlighting some of the latest features!

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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.