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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT
Data Science Institute

The Data Drip

A digest of Data Science news at UArizona

Summer Edition

DATA SCIENCE INSTITUTE (DSI)



DSI helps to start PHIRE

The DSI Research Software Engineer and Educators helped kick-start the summer 2023 Place-based Culturally Responsive Health Informatics Research Education (**PHIRE**) training program with hands-on learning and training of data science concepts. PHIRE offers a paid intensive summer research experience followed by a tailored thematic minor in health informatics for undergraduate students.

[Read more about PHIRE](#)

New endeavors

The Data Science Institute bids a fond farewell to Greg Chism and Heidi Steiner. Both provided data science expertise as DSI Computation and Data Science Educators at numerous workshops, one-on-one consults,



and events. Heidi heads East to continue her career. Greg will be at the UArizona iSchool as an Assistant Professor of Practice. DSI sends them our very best wishes in their new endeavors!

NEWS AND ACTIVITIES

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.

[Apply now for Soteria access](#)

UArizona Researchers now have Access to CyVerse Pro accounts

UArizona students, faculty, and staff have free access to CyVerse thanks to the Technology and Research Initiative Fund (TRIF) and the UArizona subscription to CyVerse with over 2,500 Academic Pro accounts. CyVerse is a dynamic virtual organization that fulfills a broad mission to enable data-driven, collaborative research by providing researchers with powerful platforms to handle huge datasets and complex analyses, thus enabling data-driven discovery. The CyVerse extensible platforms provide data storage, bioinformatics tools, data visualization, interactive analyses, cloud services, APIs, and more.

[Learn more about CyVerse](#)

Revolutionizing skin cancer care through data

The University of Arizona Health Sciences researchers created a database for melanoma and non-melanoma skin cancer that links patient data, images, and tissue - the Patient Registry, Imaging Database and Tissue Bank (PRIT). **Nirav Merchant** sees machine learning having an additional role with PRIT with modern machine learning and AI techniques good at sorting and matching images.

[Read the full UAHS article](#)



Apply for Indigenous Data Sovereignty Fellowship

The Indigenous DataSET team is recruiting for the first cohort of Indigenous DataSET Fellows for a year-long indigenous data sovereignty and ethics training for early career faculty in Arizona.

[For more info and to apply](#)



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[Get your UArizona CyVerse account](#)

IT Summit 2023 registration open

The UA Information Technology (IT) Summit is a day-long event that focuses on the power of collaboration among UA IT professionals, enhances partnerships with campus and industry partners, and showcases technologies that will transform the university's ability to innovate, collaborate, and educate for years to come.



[Register and more info](#)



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](#)



2023 Year of Open Science - promoting activities

The Data Science Institute is collecting campus-wide 2023 Year of Open Science activities and posting them on the [DSI Get Involved](#) page. What are your activities to promote and bring awareness to 2023 Year of Open Science on campus?

[Complete the Year of Open Science form](#)

MUSINGS AND OPINIONS

The DSI Spotlight is on Gondy Leroy.

Get to know Associate Dean and Professor, [Gondy Leroy](#), with the Department of Management Information Systems (MIS) at the Eller College of Management. MIS engages in cutting-edge research with interdisciplinary teams that are key to the success of research according to Leroy. For her student mentees, Leroy notes, "The goal is that they learn Bioinformatics and do something completely different from their current educational environment."

[Read the full article, "Interdisciplinary Research and Bioinformatics"](#)

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



The data science community is reading and sharing...

- [Russell Group principles on the use of generative AI tools in education .pdf](#)
- [Practical guide to Software Management Plans](#)
- [The Use of Generative Artificial Intelligence Technologies is Prohibited for the NIH Peer Review](#)

Process

- [Ten simple rules for creating a scientific web application](#)
- [FAIR in action - a flexible framework to guide FAIRification](#)
- [All the Hard Stuff Nobody Talks About when Building Products with LLMs.](#)
- [Research software engineering accelerates the translation of biomedical research for health](#)
- [How the Computer Graphics Industry Got Started at the University of Utah](#)
- [How university cybersecurity clinics can help cities fight ransomware](#)
- ["Where does my computer get the time from?"](#)
- [Open-source AI chatbots are booming — what does this mean for researchers?](#)
- [The Original AI Doomer: Dr. Norbert Wiener](#)
- [DeepMind AI creates algorithms that sort data faster than those built by people](#)
- [What Does ChatGPT Know About Science?](#)





Data Science Institute & CyVerse enjoy the end of year get-together where cake and unlimited pizza were welcomed!

CALENDAR

See your data science event listed below and on the DSI Events page by completing the DSI [calendar](#) form.

JUL
26

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.

AUG
3&4

OMERO (image data management software) hands-on workshop

OMERO is open-source software that UArizona has recently made available which can help campus research labs with image data management.

AUG
15

ChatGPT Prompt Engineering Workshop

Join us for a free, in-person-only workshop brought to you by the UArizona Data Science Institute and CyVerse. Come to the AM Session only for the basics or stay for the PM Session to apply what you've learned to your own use case or domain!

AUG

Cloud Native Camp: Cloud Resources for Scale and Flexibility in

16-18 Containers and DevOps

Learn to use Kubernetes and Docker with Terraform on OpenStack and Commercial Cloud at this virtual workshop.

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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.