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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT

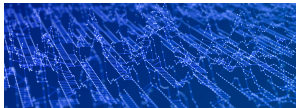
Data Science Institute

The Data Drip

A digest of Data Science news at the University of Arizona

September 2022

KEEPING PACE WITH DATA SCIENCE



New! *Applied Data Science Speak & Greet* series

Enrique Noriega is the first speaker in the new ***Applied Data Science Speak & Greet*** series hosted by **[Carlos Lizarraga](#)** with the Data Science Institute. Noriega's research, in the Computer Science Department, focuses on applying machine reading methods to large collections of documents to help scientists search and discover novel information relevant to their own research. Directly after the presentation, meet with Enrique Noriega and **[Nirav Merchant](#)**, the Data Science Institute Director. Join us from 3:00 to 4:30 on 9/21 in the SU Kiva Theater.

[Register to attend](#)



Fantastic! Industry Careers in Data Science speaker series

[Greg Chism](#) shared that the Data Science Institute ***Industry Careers in Data Science*** event on 9/7 was a huge success with more than 60 in attendance. Participants heard **Alex Bigelow**, with Stardog Union, highlight data science skills and backgrounds needed to be successful and how to apply for jobs, pursue data science careers, or establish new industry relationships. Be sure to register soon and join the 30 already registered to hear the 10/6

speaker, [Jenn Schilling](#), founder of Schilling Data Studio. Ryan Bartleme is the 11/2 speaker.

[Register for the event with Jenn Schilling](#)



Workshops - Data Science tools and resources

Check out the semester [calendar](#) full of valuable data science workshops and resources that are available across campus. Add your data science workshops to the calendar by completing the (updated) [calendar/events form](#).

New Drop-In Hours - The Data Science Institute now offers [Data Science Drop-In Hours](#) on Mondays 2:00-3:30 PM at the Bear Down Building in Room 370. Drop by or optionally [register](#) to let us know to expect you.

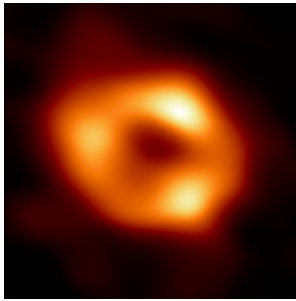
[Data science calendar](#)



Putting Machine Learning to Work for Speeding Up Image Analysis | By Linda Engelman, Data Science Institute

Data collection for a lab can be time consuming and tedious. How do we make the data we collect do the work for us? Read how [Michelle Yung](#), Research Software Engineer, with the Data Science Institute shows how it can be done.

[Read the Machine Learning Article](#)



Making sense of the nonsensical: Black holes and the simulation library | By Mikayla Mace Kelley, UA Communications

Read how Chi-kwan Chan used [CyVerse](#) for ray tracing calculation efforts for Sagittarius A*. According to the article, "The UArizona team not only spearheaded the effort to acquire the computational resources to run these simulations, but they also created the software that facilitated the calculations."

[Read the full article](#)

Part 3: Campus infrastructure for secure storage and compute

Jeremy Frumkin, Sr. Director, Research Computing
Nirav Merchant, Director, Data Science Institute

Soteria for researchers and protected data

Watch the video and listen to [Nirav Merchant](#) (start 52.39) as he discusses Soteria capabilities in support of NIH Data Management by helping researchers securely share, manage, and analyze protected data. UA NetID required to view the video. Learn more about the 2023 NIH Data Management & Sharing [Policy](#).

[Soteria - NIH Data Management video](#)



rstudio::conf - Summary

Read [Heidi Steiner's](#) blog about the RStudio Conference held in Washington, D.C. this summer. [Greg Chism's](#) takeaways include: RStudio is now Posit which emphasizes the company's commitment to include other programming languages (Python and Julia) in an overall mission towards free and open-source software for data science. Shiny, Posit's interactive web application platform, will include both a visual editor and support for Python. Quarto, the successor to R Markdown, cross compatibility allows for a more standardized and interoperable platform. RStudio Academy flips the conventional one-size-fits-all learning model and employs a system of constant, and diverse, feedback to learners through individual mentors, daily assignments with auto-grading, and group discussions.

[Read Heidi's rStudio conference blog](#)



UArizona open positions in Data Science

Find available University of Arizona and CyVerse data science positions on the Data Science Institute website. If you have a data science-related open position that you want listed, [email](#) the Data Science Institute.

[Data science positions at UArizona](#)

ANNOUNCEMENTS

[Data Science Fellows](#)

The Data Science Institute is pleased to announce the Data Science Fellows 2022-2023 cohort. They will participate in training activities and apply the tools and concepts directly to their laboratories and research processes as they solve cutting edge research problems in the health and biomedical sciences. As they develop their data science and domain expertise, they will assist on special projects, develop training material, and deliver workshops and webinars.

[Roots for Resilience \(R4R\)](#)

[AIRES](#), [CyVerse](#), and the [Data Science Institute](#) present the Fall 2022 Roots for Resilience cohort. The students are trained in the use of open science and computational infrastructure to apply data science tools to their dissertation research and discovery and to increase their department's data science capacity.

[Data Science Ambassadors](#)

Announcing the 2022-2023 Data Science Ambassadors. They are college resources helping researchers and educators with data science related questions through consults, trainings, and/or referrals to resources and experts on campus or online and developing training or other data literacy programs that are specific to the discipline/college needs.

CALENDAR OF ACTIVITY

SEPT
13

[Introduction to Data Analysis & Visualization with Python](#)

Learn general Data Science methods, techniques, and tools to enable

&
20

scientific discovery in the applied sciences. Carry out a complete data mining & data modeling process with the help of statistical analysis, classical machine learning and visualization techniques

SEPT
15

FOSS-Foundational Open Science Skills

CyVerse's 10-week (9/15 - 11/17) virtual workshop teaches the principles, practices, and how-tos for doing collaborative open science using cutting-edge, open source cyberinfrastructure, in a collaborative, hands-on setting.

SEPT
19

Exploratory Data Analysis in R - Diagnosing like a Data...Doctor

In this workshop attendees will diagnose and uncover issues in columns from a data frame using the dlookr package in the R programming language and RStudio.

SEPT
19
through
DEC
19

Drop-In Hours

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SEPT
21
through
NOV
30

Health Data Science Hangout

Weekly hangout for data-minded human health/medical/pharmaceutical researchers at UArizona. Presenting new computing tools and concepts for researcher to increase the scientific rigor and reproducibility of their work.

SEPT
21

Applied Data Science Speak & Greet speaker series - Enrique Noriega

Enrique Noriega is the first speaker in the new **Applied Data Science Speak & Greet** series hosted by [Carlos Lizarraga](#) with the Data Science Institute. Accelerating Research Through Large Scale, Interpretable Machine Reading.

OCT
6

Industry Careers in Data Science - Jenn Schilling

Register soon to hear from the 10/6 speaker Jenn Schilling, founder of Schilling Data Studio, who will highlight data science skills and backgrounds needed to be successful and how to apply for jobs, pursue data science careers, or establish new industry relationships.

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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.