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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 skills taking you (and your data) to new places

Data Science Institute workshops like **Hitchhiker's Guide to Biomedical Scientific Computing**, **Python for Data Science Introduction to Machine Learning**, and **Exploratory Data Analysis in R** have attracted students from a wide range of disciplines including Health Sciences, School of Natural Resources and the Environment, Physics, Mexican American Studies, Colleges of Agriculture & Life Sciences, Education, University Libraries, Office of Admissions, and more.

Students who attend the various Data Science Institute workshops acquire many skills including how to be successful in expanding the boundaries of knowledge discovery and scientific reproducibility in the academic community and beyond. They learn to create shareable, reproducible reports to organize more easily communication with collaborators, analyses, and manuscripts. They can apply the workshop concepts to their own research and use current available cloud technologies methods and tools involved in complex phenomena research. We wish graduating students the best as they use their data and apply their skills in new places.

We look forward this summer and each semester to providing additional workshops to students, faculty, and staff who, too, want to acquire those skills to apply to their data.



Congratulations to all of the University of Arizona graduates and to those who helped them along the way - well done!

Data Science Institute - Summer 2022 Workshops

Register and join these virtual workshops hosted by Data Science Institute Educators - **Greg Chism**, **Carlos Lizarraga**, and **Heidi Steiner** . Look for additional workshops each semester.

- 5/6: **Exploratory Data Analysis in R: diagnose data like a data doctor**
- 5/9: **Exploratory Data Analysis in R: Exploring like a Data Adventurer**
- 5/10-6/14 (Tues): **Python for Data Science: Introduction to Machine Learning**
- 5/11: **blogdown: "This Resume is Living in 2030"**
- 5/16: **Exploratory Data Analysis in R - Bring Your Data!**
- 6/16: **Hitchhiker's Guide to Biomedical Scientific Computing**
- 6/17: **The Power of Data Visualization**
- 6/22, 7/20, and 8/17: **PHI and DUAs and IRBs, oh my! Data Management and Sharing Plans for the 2023 NIH Requirement**

[View Calendar](#)

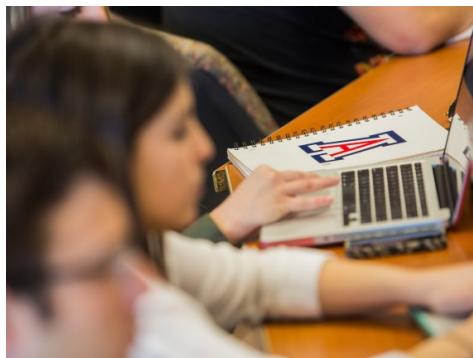
We've updated our website!

We heard you and value your input. So, we've made some great updates to our website.

As always, we welcome your feedback and suggestions on topics to add for events, news, or general info. [Email](#) us!

[DSI updated website](#)

NEWS & ANNOUNCEMENTS



Data Science Fellows - Accepting Applications

Intended for scientists at the Postdoctoral level, Fellows will participate in a dynamic environment to develop, exchange, and create data science expertise to solve cutting edge research problems in health and biomedical sciences. Fellows will receive intensive training and mentorship focused on data science techniques

as applicable to their research. Fellows must be open to collaborations and exchanging ideas, will come from a diverse range of backgrounds and domains.

[Learn more](#)



TUCSON 2022
ResBaz
RESEARCH BAZAAR

Upskill in data science, programming, visualization, digital literacy & more

MAY 23-26, 2022
ONLINE WORKSHOPS

<https://bit.ly/ResBazAZ22>

LEARN TOGETHER
R, Python, LaTeX, Machine Learning, Natural Language Processing, Git, Unix, Quarto, and MORE!

ResBaz Tucson May 23-26, 2022

ResBaz Tucson is a free, multi-day intensive conference where researchers come together to up-skill in “next generation digital research tools and skills.” In the spirit of a marketplace or bazaar, ResBaz is a highly participatory event where researchers from many different disciplines can learn, share knowledge and skills, and have fun! Virtual conference with an in-person Hacky Hour event.

[Learn more](#)



Hydrology Advanced Elective Course Offered with focus on ML applications

For Fall 2022, Hoshin Vijai Gupta will offer the newly revamped course HWRS 642: Advanced Hydrological Modeling (advanced elective) which addresses advanced topics in dynamical physical-systems modeling with a major focus on understanding the current technologies of Machine Learning and Information Theory, and how they are relevant to the Earth Sciences. Max enrollment is 10.

[Email for more info](#)



CyVerse Learning

One of our campus partners, CyVerse, will offer several workshops to campus researchers:

- 5/12-13 Container Basics
- 5/17-19 Advanced Containers
- 6/6-10 Foundational Open Science Skills (FOSS)

[Learn more](#)



DataWorks! Challenge

The Federation of American Societies for Experimental Biology (FASEB) and the National Institutes of Health (NIH) are championing a bold vision of data sharing and reuse. The DataWorks! Prize fuels this vision with an annual challenge that showcases the benefits of research data management while recognizing and rewarding teams whose research demonstrates the power of data sharing or reuse practices to advance scientific discovery and human health.

[Share your story](#)



Recap of State of the Map conference

April 21, 2022
University Libraries Data Cooperative

On April 1-3, 2022 the University of Arizona hosted the **OpenStreetMap conference State of the Map US 2022**. This conference brought over 250 mapping and geospatial data enthusiasts from around the world, to the University of Arizona campus.



[Read more](#)

Upcoming Events

MAY
12-13

CyVerse - Container Basics

Come with basic command line skills, learn how to use containerized workflows with your datasets, and gain a foundation for doing more reproducible science.

May 12-13, 2022

MAY
17-19

CyVerse - Advanced Containers

Bring your data and learn to build customized containers to make your workflows more collaborative, streamlined and reproducible.

May 17-19, 2022

MAY
23-26

ResBaz Tucson 2022

A free, multi-day intensive conference where researchers come together to up-skill in “next generation digital research tools and skills.”

May 23-26, 2022

JUNE
6-10

CyVerse - Foundational Open Science Skills (FOSS)

Five-day in-person workshop teaching the principles, practices, and how-tos for doing collaborative open science using cutting-edge, open source cyberinfrastructure, in a collaborative, hands-on setting.

June 6-10, 2022

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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.