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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT
Data Science Institute



November 2022

Data Science Institute

Welcome Rudy Salcido!

The University of Arizona Data Science Institute welcomes [Rudy Salcido](#) as a new member to the data science community with the Data Science Institute. As Program Manager, Salcido will manage [UA Soteria](#) and the [Data Science Fellows](#) program for for the [UA/UAHS Strategic Initiative 5.3: Health Analytics Powerhouse](#). After more than two decades in the Marine Corps, Salcido is pleased to be back in his hometown working for his alma mater. Learn more about [Rudy Salcido](#) and join us in welcoming him to the University of Arizona data science community.



APPLIED DATA SCIENCE
SPEAK & GREET

Speak & Greet: Nov. 16th and spring semester

The *Applied Data Science Speak & Greet* completes the Fall semester speaker series with **Andrew Bennett**, a Postdoctoral Research Associate, whose research is in hydrologic modeling and machine learning with the UA Department of Hydrology and Atmospheric Sciences. [Register](#) to attend on Nov. 16th at 3:00

PM in the Student Union Kiva Room to learn more about Bennett's topic, "Rapid emulation of a physics-based hydrology simulator with knowledge-guided deep learning models."

The speaker series helps to foster and promote building a network of researchers and graduate students by giving exposure to different interdisciplinary Data Science applications. Planning is already underway for next semester. Contact [Carlos Lizárraga](#) if you are interested in being a speaker. [Read more about the Fall Applied Data Science Speak & Greet speaker series.](#)

That's a wrap - for this semester!

[Greg Chism](#) wrapped up the Fall semester of the *Industry Careers in Data Science* series on November 2nd with [Ryan Bartelme](#), Staff Data Scientist at Accelerate Diagnostics and former postdoc in the UA [Data Science Fellows](#) program. Bartelme discussed his path from the wet-lab bench to full-time data scientist.

**INDUSTRY CAREERS
IN DATA SCIENCE**

The speaker series highlights data science skills and backgrounds needed to be successful and how to apply for jobs, pursue data science careers, or establish new industry relationships and initiates conversations, and fosters local workforce development with UArizona graduates and students. Judging by the enthusiastic response to the series, faculty, staff, and students are looking forward to the Spring semester of speakers. [Read more about the Fall semester series.](#)

Data Science Institute Drop-in Hours

Troubled by strange errors in your console or terminal? Experiencing feelings of dread from your script or data science assignment? Have you or your colleagues been tasked to produce a difficult plot or analysis? If your answer is yes, then don't wait another minute to get help. Drop in to see the professionals - [Greg Chism](#), [Carlos Lizárraga](#), and [Heidi Steiner](#) - during the Data Science Institute Drop-In Hours on Mondays 2:00-3:30 pm in the Bear Down Building, room 370. The courteous and compassionate educators are experts available to answer a wide range of data science-related questions on topics spanning data management, data sharing, data analysis platforms and techniques, Python, R, RStudio, Jupyter Notebooks, Quarto,



GitHub, Data Visualization including but not limited to life, physical, health, and social sciences. Drop by or optionally [register](#) to let us know to expect you. [Data Science Institute Drop-in Hours](#).

Publishing with Quarto



DSI and CCT are offering workshops on how to use Quarto for reproducible reporting and building websites. **Quarto** is an open-source scientific and technical publishing system built to create dynamic content with Python, R, Julia and Observable as plain text markdown (or Jupyter) notebooks. Watch a recent [Creating Personal Websites with Quarto](#) workshop hosted by **Jessica Guo** and **Heidi Steiner**. Additional workshops will be posted on the [DSI calendar](#).

Coding and campus-wide collaboration



[Nick Eddy](#), [Michelle Yung](#), and [Hagan Franks](#) are Research Software Engineers with the Data Science Institute. They write code, learn, and research how to create solutions for real-world projects across the UA campus. A few of their projects include the Automated Telephone Symptom Management (ATSM) with the College of Nursing, [Provider to Provider](#) and [AZCovidTXT](#) with the UA Center for Rural Health, and [AZ HEROES Research Study](#) with the Mel & Enid Zuckerman College of Public Health.

Use KMap to find data science connections

Looking for data science experts, collaborations, and research at the University of Arizona? Learn about the collaborative activities and relationships happening across organizations at the University of Arizona. Search with keywords on the Institutional Knowledge Map ([KMap](#)) to find people, research topics, funding agencies, departments, and colleges. Identify networks and subject matter experts. Discover documentation such as publications, grants, proposals, patents, and technical reports from experts in the field.



ANNOUNCEMENTS

UArizona Position - Bioinformatician (Research Scientist IV)

The Arizona Genomics Institute (School of Plant Sciences) and the Wheeler Lab (Pharmacy Practice & Science Department) are seeking a talented and motivated candidate for a shared Bioinformatician. The successful candidate will produce and validate genome assemblies and annotations (genes, repeats, transposable elements), and manage the handling of genomic datasets. They will work in close contact with team members (including both wet lab researchers and computational genomics software developers), serve as point of contact for external data providers and collaborators, and aid in development of grant proposals. Thus, experience in translating concepts between disciplines is required.

[Read the Bioinformatician position description](#) to apply.

Share with the University of Arizona data science community

- Visit the Data Science Institute website for info on open University of Arizona and CyVerse data science [positions](#). If you have an open UA data science position that you want posted on the website, email DSI.
- Do you have UA news, events, or info that you want to share with the data science community? DSI can add it to the DSI [calendar](#) and/or share it in [The Data Drip](#).
- Join the weekly [Coffee & Code](#), [Hacky Hour](#), and [Code Commons](#) meetings and events that are open to all and are great opportunities to network!

[Email the Data Science Institute](#).

CALENDAR OF ACTIVITY

NOV-DEC
Mondays
7-19

[Data Science Institute Drop-in Hours](#)

The Data Science Institute Data Science Drop-In Hours are 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.

NOV-DEC

[The Data & Viz Drop-in](#)

Tuesdays
8-13

Meet with the Data Cooperative Specialists to get help with your data needs on Tuesdays, 9-11 AM, with in person sessions at CATalyst Studios in the Main Library or virtually when available.

NOV
8

Part III: A PyTorch Tutorial of Image Classification using Deep Learning

This hands-on tutorial will build a research project from scratch and should get you started using PyTorch to solve your own research problems.

NOV / DEC
9 / 7

Let's talk Data Science on the UA Phoenix Biomedical Campus!

Join other like-minded researchers and Luisa Rojas, a Data Science Institute Data Science Fellow and CTS doctorate student, as she hosts a series of engaging workshops dedicated to open science principles, Data Management Plans and Open Data Science tools for the lab – right at the UA Phoenix Biomedical Campus.

NOV
14

Exploratory Data Analysis in R - Imputing Like a Data Scientist

In this workshop attendees will impute missing values in a dataset using the dlookr R package with Greg Chism.

NOV
15

Creating maps with data from the OpenStreetMap project

In this workshop, we will use osmdata and associated package to investigate OpenStreetMap data and use them for geographical visualization.

NOV
16

UA Research Data Repository Training

Learn about the **ReDATA** and how to use it to archive and share research datasets after concluding your research projects in compliance with University, funder, policies and publisher requirements for obtaining **Digital Object Identifiers (DOIs)** for datasets.

NOV

Applied Data Science Speak & Greet

16

Come listen and speak with **Andrew Bennett** who will discuss "Rapid emulation of a physics-based hydrology simulator with knowledge-guided deep learning models."

NOV / DEC
7&21 / 5

[Exploratory Data Analysis in R - Bring your own data!](#)

Attendees can apply tools from past workshops, but do not need to have attended past workshops in the series and can use these sessions to ask questions about data analysis and visualization in R.

NOV
28

[Exploratory Data Analysis in R - Correlate Like a Data Master](#)

In this workshop, attendees will conduct and visualize correlations between categorical, numerical, and discrete data variables using the dlookr R package.

NOV-JUNE
1-31

[View the data science calendar of activities](#)

Check out what's happening with data science across the University of Arizona campus. Want to add something to the calendar? Let us know what you've got by completing this short **[form](#)**.

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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.