

## The Data Drip-March

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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT

Data Science Institute



MARCH 2023

### DATA SCIENCE INSTITUTE

#### INDUSTRY CAREERS IN DATA SCIENCE

#### Industry Careers in Data Science Series

**Greg Chism** hosted the Industry Careers in Data Science speaker session on March 1. Dr. Beth Tellman's topic, *How to get a job in climate tech: tips from a start-up founder!*, truly inspired the audience. In addition to other topics, Dr. Tellman addressed data science core skills and professional traits that are valuable for being marketable in the climate tech industry. She also noted several resources for finding job postings. Her discussion showed how skills learned in academia can be translated into a fast growing industry that is responsible for

major lasting impacts on people worldwide.

## Industry Speaker for April - Mary Rose Sena

**REGISTER** to hear Mary Rose Sena on April 5th where she will discuss *A Day in the Life of a Data Scientist at Sandia National Labs*. During her time at Sandia, Mary Rose Sena has become a subject matter expert in using time series analysis to detect anomalies in time dependent data. The tools that Sena has helped develop and research that she has led have been applied to a wide range of areas, from cybersecurity to autonomous flight systems, and have had a direct impact in our national security. After graduating from UNM with a MS in Statistics, Sena was hired as a statistician at Sandia where she has been working for nearly nine years. Committed to science with the mission in mind, Sandia National Labs creates innovative, science-based, systems-engineering solutions to our nation's most challenging national security problems.

Data Science Institute  
↑↑ Consultations  
with the Experts

### Schedule for 1:1 Data Science consultations

**Greg Chism**, **Carlos Lizárraga**, and **Heidi Steiner** with the Data Science Institute are available for **one-on-one data science consultations**. They have already helped many others with issues including topics spanning the life, physical, health, and social sciences. **Schedule an appointment** with them to get data science answers to your questions. They are experts in R/RStudio, Python, data analysis, data visualization, machine learning, and more in the R and Python programming languages.

### *Coded Bias* - AI and ethics

Wow, that was a great discussion after the screening! On February 28th UArizona faculty, staff, and 25 students from Dr. Paul Melendez's Ethics class attended the screening and participated in the panel discussion for the documentary, *Coded Bias* (2020), directed by Shalini Kantayya. As the discussion panelists, Dr.



Treya Allen with the Dean of Students Office, Dr. Paul Melendez with the Eller College of Management, and DSI Director Nirav Merchant answered questions and provided expert commentary about ethics, AI, empathy, and more.



## Save-the-Date(s) 2023 DataFest

### 2023 DataFest: Save the dates April 10-21

New to data science? Not sure if you "do" data science? Long-time data and computer scientist? The inaugural **DataFest** is for you! Save April 10-21 for a series of cross-campus events that celebrate and explore data science, tools and solutions for beginners and experts alike. Sponsored by the University of Arizona Institute for Computation and Data-Enabled Insight, Data Science Institute, Data Cooperative (University Libraries), and College of Science

- **April 10-13: Software Carpentry**

Software Carpentry aims to help researchers get their work done in less time and with less pain by teaching them basic research computing skills. This hands-on workshop will cover basic concepts and tools, including program design, version control, data management, and task automation. Participants will be encouraged to help one another and to apply what they have learned to their own research problems.

- **April 17-19: ResBaz Arizona Annual Festival**

ResBaz Arizona (ResBaz AZ) is a free, multi-day intensive festival where researchers come together to up-skill in "next generation digital research tools and skills." ResBaz AZ is a highly participatory event where researchers from many different disciplines can learn, share knowledge and skills, and have fun! Researchers at ALL levels from ALL disciplines, PhD and research master's students, and research technologists are encouraged to attend. Let's learn together - Northern Arizona University, University of Arizona, and Arizona State University.

- **April 20 (tentative): Career and Networking Fair; details forthcoming**

- **April 20: Women in Data Science (WiDS)**

WiDS Tucson aims to inspire and educate data scientists, regardless of gender, and support women in the field. The free conference events provide an opportunity to hear about outstanding women doing outstanding work, the latest data science-related research and applications, and connect with others in the field.

**- April 21: Research Data Challenge Conference and Awards Luncheon**

Students who submitted entries to the inaugural Research Data Challenge are invited to present their research and attend a luncheon, where the winners of the competition will be announced and certificates given to all of those who successfully participated. Details are forthcoming.

**Highlighting data science projects, tools, and software**

In future *The Data Drip* editions, the Data Science Institute will feature UArizona students, faculty, staff, and/or researchers' data science projects, tools, and/or software.

What do you have that you want us to share? **Email DSI** so we can shine a light on you.



**DSI badge - Git Version Control**

Coming soon - quality sometimes takes time. The Data Science Institute will offer a "Data Science Intro to Version Control with Git" badge that will include OpenClass assessments. **Email DSI** to learn more about how to use this badge with your course or for lab students want to be prepared for the research lab and need to be comfortable with the basics of version control.

**Year of Open Science - promotion and awareness**

The Data Science Institute is collecting campus-wide



Year of Open Science activities. What are your activities to promote and bring awareness to 2023 Year of Open Science on campus? Complete the DSI [UArizona Year of Open Science](#) promotion and awareness form. The activities will be posted on the [DSI Get Involved](#) page.



## ANNOUNCEMENTS

### UA Planet data license is Here!

Faculty, staff, and students now have access to [Planet Labs PBC data](#) using the UArizona campus-wide license. Sign up to access the Planet data to build models, combine geospatial datasets, discover how UArizona researchers use Planet data, and more at the Institute for Computation & Data-Enabled Insight ([ICDI](#)).



### Data Science Ambassadors - Nominations Time!

The [Call for nominations](#) for the Data Science Ambassadors (DSA) program is open. DSA capitalizes on domain knowledge and data science expertise in the UArizona graduate/professional student population. DSAs serve as a resource within their college to help researchers and educators with (1) data science related questions through consults, training, and/or referrals to the right resource and experts on-campus or online and (2) developing training or other data literacy programs that are specific to needs to you and your discipline/college. In short, DSAs are champions for data science literacy in their college!



### Data Carpentry Workshop

**REGISTER** to attend the Data Carpentry Workshop on March 13th, 9:00 AM - 1:00 PM. This event is an example-driven, four-day workshop on basic computing



skills. Short tutorials alternate with hands-on practical exercises, and participants are encouraged to try applying what they have learned to their own research problems during and between sessions. *There are no prerequisites and the materials assume no prior knowledge about the tools.* **Registration is required.** More information, the **schedule, and curriculum** are available.

## 2023 NIH Data Management and Sharing Policy



Keep up-to-date with the 2023 NIH Data Management and Sharing Policy. Visit the **UA Libraries Data Cooperative** site to stay informed about updates and to find links to useful info and resources.

## Coffee and Code

**Coffee and Code** is in-person on **Wednesdays, 8:30-10:30 AM** at **Slot Canyon Cafe** in ENR2. The Tuesday mornings gathertown remains open for **CALS data science drop-ins.**



## Share with the UArizona Data Science Community

- Visit the Data Science Institute website to review open UArizona and CyVerse data science **positions.** If you have an open UArizona data science position that you want posted on the website, **email DSI.**
- Do you have UArizona 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 ACTIVITIES

[View all calendar events](#)

MAR-MAY  
Week  
Days

### [Data Science Institute 1:1 Consultation](#)

Schedule a 1:1 consultation appointment with DSI Educators – the experts in R/RStudio, Python, data analysis, data visualization, machine learning, and more in the R and Python programming languages.

MAR  
Tuesdays  
7-28

### [Python for Data Science](#)

Python is one of the popular languages used by many data scientists for various applications. Python provides great functionality to work in mathematics, statistics, machine learning, data visualization and scientific computing.

MAR  
Tuesdays  
7-28

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

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.

MAR  
Thursdays  
9-30

### [Data Science Tapas](#)

Speakers will present bite-sized segments in data science featuring the R or Python programming languages aimed at students and researchers interested in diving in or broadening their data science skills.

MAR  
15

### [Dataset Roulette](#)

For this session, Dr. Adriana Picoral will have an informal opportunity to see how she actually works with a dataset that she has never seen before. Future dataset roulette sessions will include a data scientist/engineer/wrangler/enthusiast who will explore, analyze, and visualize data using open source software.

MAR

### [Learning through Open Science Contributions](#)

10/24

This workshop is a two-hour guide to making open source contributions, for first-timers and for veterans.

Learn to why you might contribute to open science, what it means to contribute, how to orient yourself to a new project on GitHub and finally, how to find a project to work on and submit a contribution to that project.

MAR  
15-17

### [Shiny Conference](#)

Registration is open for the ShinyConf2023. It's free and virtual on March 15-17, 2023.

MAR  
22/29

### [Classical Machine Learning \(ML\)](#)

Weekly workshop with on-hands training examples in the different Machine Learning algorithms, using libraries and tools from both R and Python programming languages used in real Data Science applications.

MAR  
28

### [Introduction to data wrangling in R with the tidyverse!](#)

R is a powerful language for managing, analyzing, and visualizing complex data. The tidyverse package for R includes several helpful functions that make it easier to manipulate, summarize, and visualize your data.

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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.*