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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT

Data Science Institute



FEBRUARY 2023

Data Science Institute

## INDUSTRY CAREERS IN DATA SCIENCE



### Industry Careers in Data Science...Spring semester

[Greg Chism](#) hosted the Industry Careers in Data Science series which kicked off the spring semester of monthly speakers on February 1. Nick DiRienzo's topic, *Leaning into being an academic: Lessons from a hiring manager*, really resonated with the audience. In addition to sharing other valuable insights, he addressed what hiring managers actually look for in resumes and how to market academic skills as industry desirable data science skills. He noted that those in academia have many data science skills and are exceptional at using them. However, they have a tendency to sell themselves too short on the resume and during the interview process.

Be sure to [register](#) early to hear the next featured speaker, [Beth Tellman](#).



## Data Science Institute 1:1 Consultations with the Experts

### **NEW: 1:1 Data Science consultations**

[Greg Chism](#), [Carlos Lizárraga](#), and [Heidi Steiner](#) with the Data Science Institute are providing **one-on-one data science consultations** to help you solve a wide-range of data science problems. The courteous DSI educators are experts in R/RStudio, Python, data analysis, data visualization, machine learning, and more in the R and Python programming languages. 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.

### **Join us - *Coded Bias* screening and panel discussion**

The Data Science Institute is hosting a free screening and panel discussion for the documentary, *Coded Bias* (2020), directed by Shalini Kantayya. *Coded Bias* shines the light on the biases within AI. Facial recognition tech did not work until Joy Buolamwini put on a white mask. Please [REGISTER](#) early to join us on **February 28, 2023, 5:30 - 7:30 PM** at the Main Library CATalyst Data Studio B201. Seating is limited. Free snacks will be provided. Open to UArizona student, faculty, and staff.



## INDUSTRY CAREERS IN DATA SCIENCE

### **Beth Tellman featured for March**

Grab some free pizza for the DSI Industry Careers in Data Science event and listen to Beth Tellman, Assistant Professor at UArizona, in the School of Geography, Development, and Environment on **March 1, 2023, 5:30 - 7:30 PM** at the Main Library B252. Tellman is a co-founder and Chief Science Officer of [Floodbase](#), a company that uses satellite observations and models to track floods for disasters and insurance. [REGISTER](#) early to learn more about Tellman's research that addresses the causes and consequences of global environmental change on people with a focus on access to water,

flood risk, and land use change. Her global flood mapping work was recently featured on the cover of [Nature](#). Tellman will discuss her company Floodbase, what her industry is currently like, and how to get a job in it!

### Rope climbing for fun

[Hagan](#), [Carlos](#), and [Maliaca](#) with DSI joined the CCT Data Science teams and CALS at the UA 4-H High Ropes Course. With no height phobias, they enjoyed climbing and mastering the ropes. It was a great opportunity to build trust and confidence, develop leadership and communication skills, and foster important life skills.



### DSI badge pilot - Git Version Control

Coming soon. The Data Science Institute will pilot 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 who need to be comfortable with the basics of version control.



## ANNOUNCEMENTS

### Planet Data is coming to UArizona

The University and Planet Labs are partnering to provide free access for UArizona users to a near-daily stream of Earth-observation satellite data. Planet operates a fleet of more than 200 imaging satellites, capturing over 30 terabytes of data per day and over 350 million square kilometers of imagery daily.



The Institute for Computation & Data-Enabled

Insight, Arizona Institute for Resilience, Data Science Institute, and Data Cooperative, University Libraries are sponsoring two events to launch the partnership.

- **On Feb. 14**, faculty, postdocs, and graduate students are invited to learn how they can use Planet data to enhance their research.
- **On Feb. 15**, undergraduate and graduate students are invited to attend the Research Data Challenge kickoff and sign up to enter the challenge and for a chance to win cash prizes.

### Hands-On with ASTEC & SensorLab

**REGISTER** and learn more about the interactive, hands-on event featuring healthcare technology on **February 14, 2:00 and 3:30 PM**. **ASTEC** (Arizona Simulation Technology & Education Center) provides inter-professional healthcare simulation opportunities through state-of-the-art interactive technologies. The Healthcare Technology Innovation Lab, **SensorLab**, connects researchers across disciplines to develop an array of technologies and digital solutions for healthcare applications (e.g., AI, VR, mobile apps).



Love Your Data Week - Copyright Webinar

In celebration of **Love Your Data Week**, Ellen Dubinsky with the UA Libraries, will present **Understanding and Protecting your Intellectual Property** in the Year of Open science on **February 14 at 2-3 PM**. **REGISTER** for this webinar that will provide the basics about copyright and what is (and isn't) protected. Most importantly, you'll learn how to manage your copyright and other intellectual property rights while engaging in open science practices. The White House is partnering with several federal agencies and research universities in the Year of Open Science -- initiatives that provide access to the results of the nation's taxpayer-supported research, accelerate discovery and innovation, promote public trust, and drive more equitable outcomes. As a research and author, you might ask how that will affect the intellectual property rights in your research outputs.

## WiDS Datathon Webinar 2023

Data Science and Climate Change



Speakers:

**Weiwei Pan:** Research Associate | Harvard University IACS

**Teresa Datta:** Machine Learning Engineer | Arthur AI

**Marie-Laure Charpignon, MSc:** PhD candidate | MIT Institute for Data, Systems, and Society

**Utkarsha Agwan:** PhD candidate | Electrical Engineering and Computer Sciences at UC Berkeley

**Sarah Ostermeier:** Field Data Scientist | Arthur AI



### **NEW DATE** - Online WiDS Datathon - Feb. 17

- Learn more and **REGISTER** for the WiDS Datathon on Friday, **February 17, 2023**. In this year's WiDS Datathon, participants will use data science to improve longer-range weather forecasts to help people prepare and adapt to extreme weather events caused by climate change.
- ***Save-the-Date*** for the WiDS-Tucson Conference scheduled for Thursday, **April 20, 2023**.

### **ResBaz moves Coffee and Code**

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





## 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.

### 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

FEB-MAY  
Week  
Days

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

**NEW** 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.

FEB  
Wednesdays  
1-22

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

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.

FEB  
Thursdays

#### [Data Science Tapas](#)



2-23

**NEW** 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.

FEB  
Fridays  
3-24

**Introduction to R for Reproducible Analysis**

An Introduction to R for non-programmers using UA Test-Trace-Treat data.

FEB  
6/20

**Exploratory Data Analysis in R - Bring your own data!**

Bring exploratory data analysis questions. These questions can be from applying materials from the formal EDA in R workshops or general questions about data analysis and visualization in R.

FEB  
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.

FEB  
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.

FEB  
13

**Exploratory Data Analysis in R - Transforming Like a Data... Transformer**

In this workshop attendees will test data normality and transform numerical data distributions from a data set using the dlookr package in the R programming languages.

FEB  
14

**Love Your Data Week – Copyright Webinar**

Understanding and Protecting your Intellectual Property in the Year of Open science. The webinar will provide the basics about copyright and what is (and isn't) protected.

FEB

**Planet Data Is Coming to UArizona**

14 Faculty, postdocs, and graduate students are invited to learn how they can use Planet data to enhance their research.

FEB **2023 Research Data Challenge**

15 Undergraduate and graduate students are invited to attend the Research Data Challenge kickoff and sign up to enter the challenge and for a chance to win cash prizes.

FEB **WiDS Datathon-Tucson Workshop**

17 This workshop will prepare you to participate in the Global WiDS Datathon.

FEB **Exploratory Data Analysis in R - Imputing Like a Data Scientist I**

27 Learn how to transform outliers in a dataset using the dlookr. R package, with particular attention given towards imputation.

FEB **Coded Bias Screening & Panel Discussion**

28 Enjoy free snacks and join the **Data Science Institute** for a screening and panel discussion of the documentary, *Coded Bias* (2020), directed by Shalini Kantayya.

MAR **Shiny Conference**

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

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