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THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT  
Data Science Institute



October 2022

## Data Science Institute - it's happening!



### Conversation & interaction - It's why we host the speaker series

Robust discussion amongst faculty, staff, and students ensued after **Enrique Noriega** spoke at the first *Applied Data Science Speak & Greet* hosted by the Data Science Institute. "That's exactly the interaction that we'd hoped would happen and will continue to happen throughout the series," said **Carlos Lizárraga**. Next in the series is UA Assistant Professor in the Department of Computer Science, **Jason Pacheco**, who will discuss "Fast Approximate Inference for Probabilistic Machine Learning in Complex Models." Come to listen and then engage in the conversation on **Oct. 19** at 3:00 PM in the UA Student Union Kiva Room.

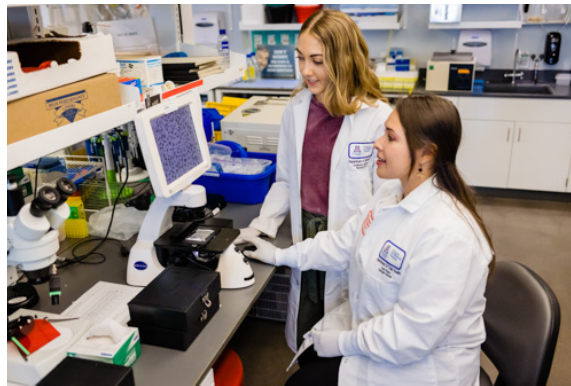
REGISTER-JOIN THE  
CONVERSATION

## Be successful in data science outside of academia and in the industry

**Greg Chism** says that it won't be the pizza that packs the house and makes the attendees sit up and listen at the next *Industry Careers in Data Science* event on **Oct. 6** in the UA Main Library. **Jenn Schilling** will do that! The Senior Research Analyst at the University of Arizona and founder of Schilling Data Studio will be "Playing with Numbers" as she shares her experience applying data science in higher education and other industries. Wrapping up the semester in the series on **Nov. 2** is Ryan Bartelme.



REGISTER & JOIN JENN SCHILLING



## DSF senior cohort moves to next phase

The Data Science Fellows senior cohort is moving into the final phase of their fellowship where they share their data science and domain expertise, develop training material, deliver workshops and webinars, and mentor the Data Science Fellows junior cohort. Working in a lab in Tucson or Phoenix, the postdocs contribute to the University of Arizona data science community with a health science focus.

- **Lydia Jennings:** Data Ethics and Data Sovereignty, Tools and Examples to Implement Data Sovereignty – Sept. 8
- **Linnea Honeker:** Microbial community analysis of 16S rRNA amplicons using QIIME2 on the HPC – Sept. 29
- **Luisa Rojas:** Data Science-Phoenix Biomedical Campus, Let's talk Data Science on the UA Phoenix Biomedical Campus! – [Oct. 5](#), [Nov. 2](#), and [Dec. 7](#)
- **Zhiyang Fu:** Learn PyTorch for Deep Learning from Scratch; Part I: Deep Learning Fundamentals – [Oct. 11](#); Part II: PyTorch Workflow Fundamentals – [Oct. 18](#); Part III: A PyTorch Tutorial of Image Classification using Deep Learning – [Nov. 8](#)

[LEARN ABOUT THE DATA SCIENCE FELLOWS PROGRAM](#)



### **Data Science Institute undergrad software engineers make an impact**

The Data Science Institute welcomes its newest cohort of undergraduate software engineers – Quanwei, Christopher, Mario, David, Thomas, and Ivan – under the leadership of [Hagan Franks](#) and [Michelle Yung](#). Their onboarding includes web application development, cloud computing, Git, and Docker--skills they may not encounter in their coursework. With student software engineers, DSI can focus on more projects and collaborate with more campus researchers while giving the undergrads the opportunity to apply and build their skills. They develop their problem-solving and technical skills when contributing to real-world projects that can range from building research web applications to data wrangling and machine learning to building reproducible research workflows on [CyVerse](#).

**ANNOUNCEMENTS**

## CB2 Data Analysis Survey

The Center for Biomedical Bioinformatics and Biostatistics (CB2) Sensor Analysis and Smart Platform division is conducting a Data Analysis Survey to understand how data analysts currently query and interact with data. All submissions are anonymous and all questions are optional. Contact [Shravan Aras](#) for more info.

### [Take the CB2 Data Analysis Survey](#)

### Share with the University of Arizona data science community

- Find open University of Arizona and CyVerse data science [positions](#) on the Data Science Institute website. If you have an open UA data science position that you want listed, let DSI know.
- 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](#).

### [Email the Data Science Institute](#)

## CALENDAR OF ACTIVITY

OCT  
06

### [Register - Industry Careers in Data Science - Jenn Schilling](#)

**Jenn Schilling** is "Playing with Numbers" as she highlights data science skills and backgrounds needed to be successful outside of academia and in industry.

OCT  
Mondays  
10-31

### [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.

OCT  
11

### Zhiyang Fu demystifies neural network layers

Learn PyTorch for Deep Learning from Scratch in Part 1 of 3 with deep learning fundamentals mainly focused on Convolutional Neural Networks (CNNs).

OCT  
Wednesdays  
12-26

### Health Data Science Hangout

Virtually hangout weekly noon-1:00 with Heidi Steiner and other data minded human health/medical/pharmaceutical researchers to learn basic lab skills including data management, programming, collaborating, organizing, tracking and publishing.

OCT  
11/18

### Introduction to Data Analysis & Visualization with Python

*Pandas library for Data Analysis*. This workshop will cover general Data Science methods, techniques, and tools to enable scientific discovery in the applied sciences.

OCT  
13/20

### Introduction to the Command Line Interface (CLI)

Learn the main features of the CLI, the Bash Shell command, apply the basic Linux operating system command and learn how to program and automate repetitive tasks using shell scripts.

OCT  
17

### Transforming Like a Data...Transformer

Exploratory Data Analysis in R - Transforming Like a Data...Transformer. Test data normality and transform numerical data distributions from a data set using the *dlookr* package in the R programming language with Greg Chism.

OCT  
19

### Applied Data Science Speak & Greet

Come listen and speak with **Jason Pacheco** who will discuss "Fast Approximate Inference for Probabilistic Machine Learning in Complex Models".

OCT  
26

### [Creating Personal Websites with Quarto](#)

Take this crash course in building a personal or professional website using Quarto through RStudio and publishing with GitHub Pages.

OCT-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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*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.*