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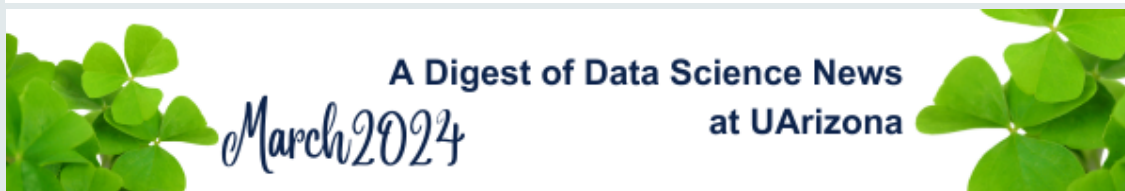
THE UNIVERSITY OF ARIZONA



RESEARCH, INNOVATION & IMPACT

Data Science Institute

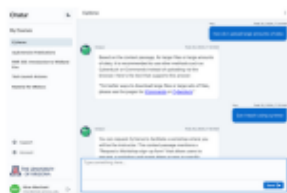
The Data Drip



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[DATA SCIENCE INSTITUTE \(DSI\)](#)

Chatür Chatbot - Phase 2



Chatür Classroom Chatbot

The experimental chatbot, [Chatür](#), is currently trained to answer questions from only five data sources and use cases: 1) course content for RNR 355 Introduction to Wildland Fire from instructor-provided PPT and PDF documents; 2) selected publications from [UArizona Cooperative Extension PDFs](#); 3) [CyVerse learning and training material](#); 4) the Tech Launch Arizona website; and 5) MKDocs, a popular utility for creating documentation.

The primary goal for the next phase of Chatür will be to improve the conversational abilities to give more personalized replies (based on feedback from stakeholders) by exposing Chatür to more conversation-based datasets. After training, Chatür will be integrated into D2L, eventually having one Chatür for each course on the UArizona campus with built-in authorization and authentication abilities. Instructors must first upload the documents to train Chatür. Students registered in that course would then access Chatür from D2L and converse with Chatür about the course throughout the semester.

Chatür runs on state-of-the-art hardware with advanced graphical processing units and is currently hosted on CyVerse and at NSF JetStream2 infrastructure. Create a UArizona CyVerse [account](#) to [chat with Chatür](#). [Email](#) the Data Science Institute for more info about Chatür.

Catch up with the UArizona Data Lab's archived workshops on YouTube

Attend the UArizona Data Lab [weekly workshops](#) for the 2024 Spring semester:

- [Navigating the World of Data Engineering](#) - Mon 2-3 PM
- [Cracking the Coding Interview](#) - Mon/Wed/Fri 4-5 PM
- [NextGen Geospatial Data Science](#) - Tues 2-3 PM
- [Data Science Essentials: From Jupyter to AI Tools](#) - Tues 3-4 PM
- [Data Science Tapas: Savor the Tools of Data Mastery](#) - Wed 1-2 PM
- [Mastering Machine Learning: Your Path to Data-Driven Research](#) - Thurs 2-3pm
- [Introduction to Deep Learning](#) - Thurs 3-4pm

Missed a workshop? Now you can find archived UArizona Data Lab [workshops on YouTube](#).

"Getting Started with CyVerse" and useful webinars

Now that you have your [UArizona CyVerse](#) account, it's time to attend a workshop to help you better use it. "[Getting Started with CyVerse and Support Hour](#)" is available for UArizona CyVerse accounts holders. Check the [DSI calendar](#) for more info about the online support. Save these Friday morning slots for free [CyVerse webinars](#).



- 3/22 [Working with High Frequency Wearables Data](#), Using SensorFabric in CyVerse to Make Data Easier to Analyze
- 4/19 [User Experience 101 for Data Science and Research Software Engineers](#), What Research Software Engineers Need to Know About User Experience (UX)
- 5/3 [Geospatial Analysis Using CyVerse](#), Get a "bird's eye view" of available geospatial resources



LabScrum, a standalone framework workshop

Learn how to organize your lab better, manage complex work, and increase productivity, scientific rigor, quality of training, and quality of life for team with [LabScrum](#). Any research group can find a way to implement LabScrum. A spirit of experimentation and people who are willing to fill key facilitator roles are all that are required. LabScrum often results in significant time savings for PIs and is

usually about neutral in time commitment for trainees. The Data Science Institute is hosting a virtual LabScrum workshop from **1 - 3 PM** on both **[April 17](#)** and **[May 1](#)**, 2024 that will be presented by Linda May, Ph.D.



Conduct research in a secure data analysis enclave with Soteria

[Soteria](#) changes the way researchers analyze and manage projects with protected data like PII and PHI. Soteria is a secure data and analysis enclave where teams can collaboratively organize and analyze data while adhering to compliance requirements associated with protected data. Resources and state-of-the-art tools are available through Soteria. Explore a variety of tools that can help propel your research. **[Apply now for Soteria access.](#)**

DSI CALENDAR

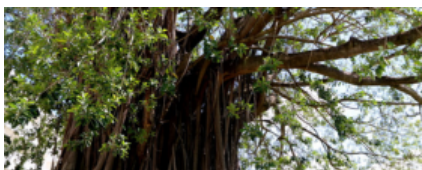
Be sure to check regularly the **[Data Science Institute's calendar](#)** for information about useful data science workshops, trainings, and events offered by the Data Science Institute, UArizona Data Lab, and other departments across campus.

NEWS AND ACTIVITIES



UA hydrologist launches website to track groundwater

TUCSON, Ariz. (KVOA) — A University of Arizona researcher has led a national science foundation project that integrated AI to simulate the nation's groundwater supply to forecast droughts and floods. Read more about Dr. Laura Condon and her groundwater project in the **[KVOA article](#)** by Meteorologist, Daniel McFarland.



CyVerse meets with CNPq in Brazil

Dr. Tyson Swetnam was part of the US delegation representing the National Science Foundation (NSF) that



met with National Council for Scientific and Technological Development (CNPq) in Brasilia, Brazil in late February. The meeting was co-led by the Colorado University at Boulder's NSF Synthesis Center -- the Environmental Data Science Innovation and Inclusion Lab (ESIIL) and CNPq's Brazilian Synthesis Center on Biodiversity and Ecosystem Services (SinBiose). The participants worked towards finding new areas of mutual, inclusive, collaboration around biodiversity, climate change, and cyberinfrastructure research. Dr. Swetnam presented on UArizona's CyVerse cyber-infrastructure project which has enabled thousands of researchers around the planet to share scientific data over the last 15 years. Learn more from the [ESIIL workshop](#).

It's on! UAL 2024 Data Visualization Challenge

The Data Cooperative at the University of Arizona Libraries holds an annual data visualization challenge to highlight how UArizona students use visual displays of data to tell stories. The 2024 challenge is now open for submissions and the deadline for submissions is March 18, 2024. [Read more](#) and submit your project.



Register for the 3/29 WiDS Tucson Conference

[Register](#) for the 2024 Tucson Women in Data Science conference. The [WiDS Tucson conference](#) (Friday, March 29, 2024, 8:30 AM – 5:30 PM MST) is a great opportunity for women to celebrate, connect, share, and learn about data science related research approaches and tools in various domains. Everyone is invited to attend the free annual occurrence!



**Women in
Data Science
Worldwide**

Tucson

ResB(az)² Upgrade your data science skills!

The [Research Bazaar Festival 2024](#), hosted by ResBazAZ, is a highly collaborative event where anyone, regardless of discipline or previous experience, can learn, share knowledge, find help, and have fun! We are innovative and community-centered, with a commitment to inclusiveness. The free festival is scheduled slightly different each day and is open to all:



May 15 ~ Online conference

May 16 ~ In-person ([Unconference](#))

May 17 ~ In-person (Traditional conference)

[Register](#) to join us for workshops on programming, data science, high performance computing, data visualization, machine learning, digital literacy, and more! Check out our previous [ResBaz 2023](#) program to see what you can expect at this year's #ResBaz2024 festival!

Get your UArizona CyVerse account



Create your [UArizona CyVerse account](#). Thanks to the Technology and Research Initiative Fund (TRIF), 2,500 Academic Pro accounts that offer free data storage, and compute and cloud native resources are available to UArizona students, faculty, and staff. CyVerse, the largest publicly-funded open-source research cyberinfrastructure for life sciences, has played a crucial role in advancing data-driven research. [Read more.](#)

Read the ICDI newsletter, AI Update

Have you read the latest AI Update? [Subscribe](#) to receive the newsletter, AI Update, and stay connected with the latest breakthroughs in [Artificial Intelligence](#) directly from the University of Arizona.



Spotlight you and your research!

The Data Drip will highlight UArizona students, faculty, staff, research, data science projects, tools, and/or software. DSI wants to shine the light on you. Let us know what you want to share.

[Email us to contact you](#)

MUSINGS AND OPINIONS

Share [The Data Drip](#) with your friends and



colleagues! They can [subscribe](#) by completing a brief form. Let us know if you have data science news that you want us to share in The Data Drip or on the [Data Science Institute](#) website.



The UArizona data science community is reading and sharing...

- [Testimonials and Success Stories for Research Software, Data, and Computing Teams](#)
- [Ten simple rules for teaching sustainable software engineering](#)
- [Machine Learning](#)
 - [Microsoft Work Trend Index Special Report 2024](#)
 - [GitHub About CITATION Files](#)
 - [UAIR Institutional Data Summit](#)
 - [Data and AI Intensive Research with Rigor and Reproducibility \(DAIR3\) 2024 cohort](#)
 - [2024 WIDS Tucson conference](#)
 - [Microsoft AI engineer warns FTC about Copilot Designer safety concerns](#)
 - [Generative AI's environmental costs are soaring — and mostly secret](#)
 - [No AGI without Neurosymbolic AI" by Gary Marcus](#)
 - [Dialect prejudice predicts AI decisions about people's character, employability, and criminality](#)

Read more news about the UArizona data science community on the [Data Science Institute news](#) site.

CALENDAR

Take a look at the Data Science Institute's [calendar](#) for data science workshops that are available from across campus. To see your data science event listed below in The Data Drip and on the DSI calendar of events page, complete the DSI [calendar](#) request form.

[UArizona Data Lab workshops](#) are offered weekly during the semester.

MAR-APR

Cracking the Coding InterviewNow
offered
M/W/F

Learn some tricks and tips which can help you crack programming interview questions.

MAR-APR
Tuesdays**FOSS Spring 2024**

An 8-week long workshop of 2 hour weekly sessions on a variety of foundational principles, skills, and technologies that are essential and valuable for doing Open Science.

MAR-APR
Fridays**CCT Bayesian Learning Group**

8 biweekly sessions in a peer-to-peer learning collaborative while working through foundational concepts in Bayesian statistics.

MAR-APR
Fridays**Deep Learning for Astrophysics**

This is a comprehensive introduction to deep learning with practical applications in astrophysics.

MAR
29**Tucson Women in Data Science Conference - WiDS 2024**

The Tucson one-day technical conference provides an opportunity to hear about the latest data science related research and applications in a number of domains, and connect with others in the field.

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University of Arizona, 1401 E. University Blvd., Tucson, AZ 85721, US

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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.