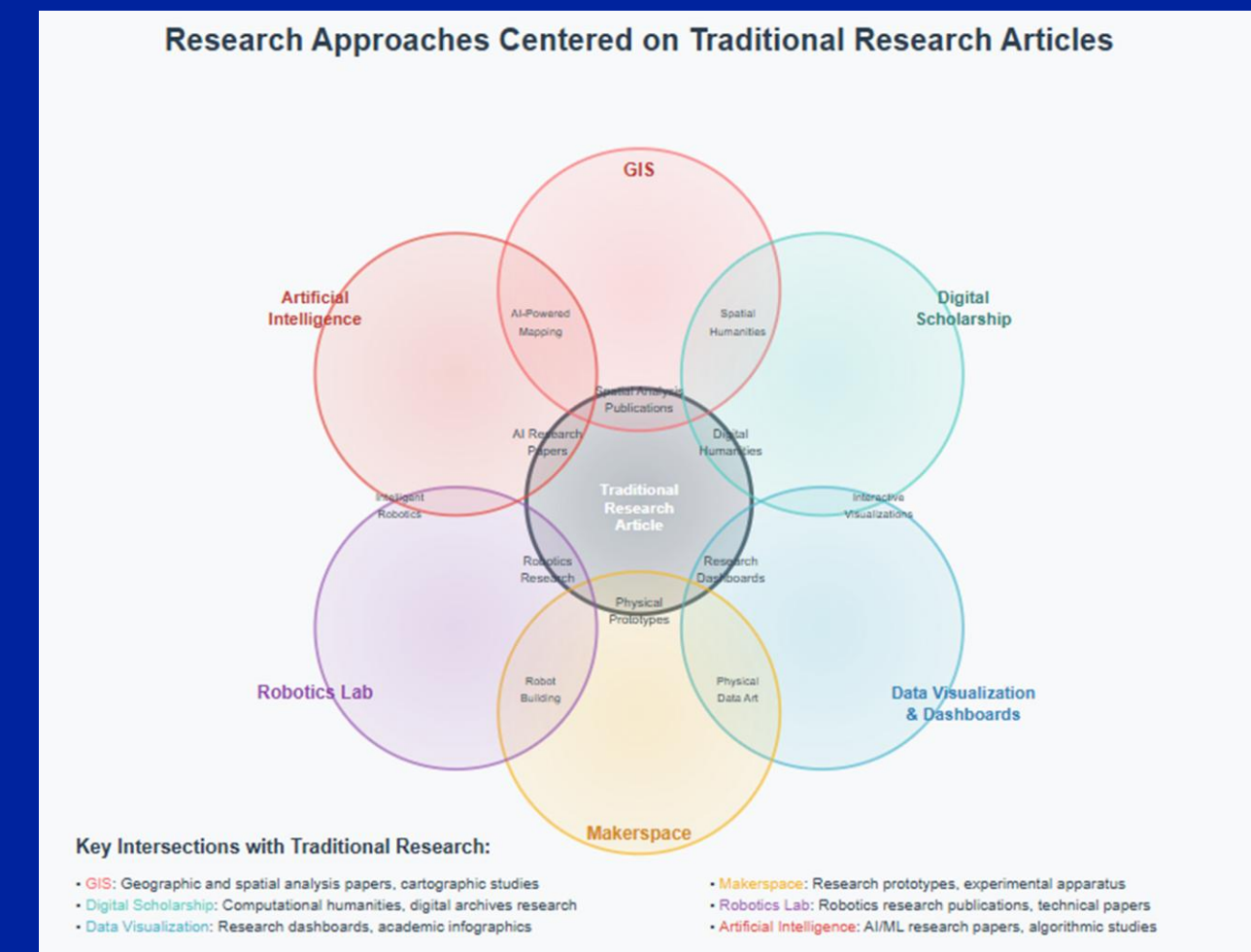




# UCR LIBRARY DIVISION OF RESEARCH AND TECHNOLOGY SERVICES



Ray Uzwysyn Ph.D. MBA MLIS  
Acting AUL and Director of Research and Technology Services  
University of California, Riverside, Libraries  
[raymondu@ucr.edu](mailto:raymondu@ucr.edu)



# LIBRARY RESEARCH AND TECHNOLOGY SERVICES

## STAFF, RESOURCES AND SERVICES

### Cyberinfrastructure

Dan Szilagyi – Manager of Cyberinfrastructure

Barry Harvey – Client Systems Engineer

Dennis Vice – Client Support Engineer

Ramon Barcia – Business Systems Analyst

Mary Anne Eliazo – Infrastructure Systems Engineer

Scott Metoyer – 652-Applications Programmer 4

Joel Valdez – Applications Programmer 3

### Research Services

Raymond Uzwysyn - Director of Research Services

**VACANT – AI Research Librarian**

**VACANT – AI Research Librarian**

Alvaro Alvarez – Innovative Media Librarian

Janet Reyes – Geospatial Information Librarian

Jing Han – Digital Scholarship Librarian (starts Feb 2025)

Andrew Morales – Research Services Assistant

Brendon Wheeler - Maker Services Coordinator

Elisa Cortez – Medical Education and Clinical Outreach Librarian

Barbara Martinez Neda – Research Data Scientist

**VACANT – Research Data Scientist**

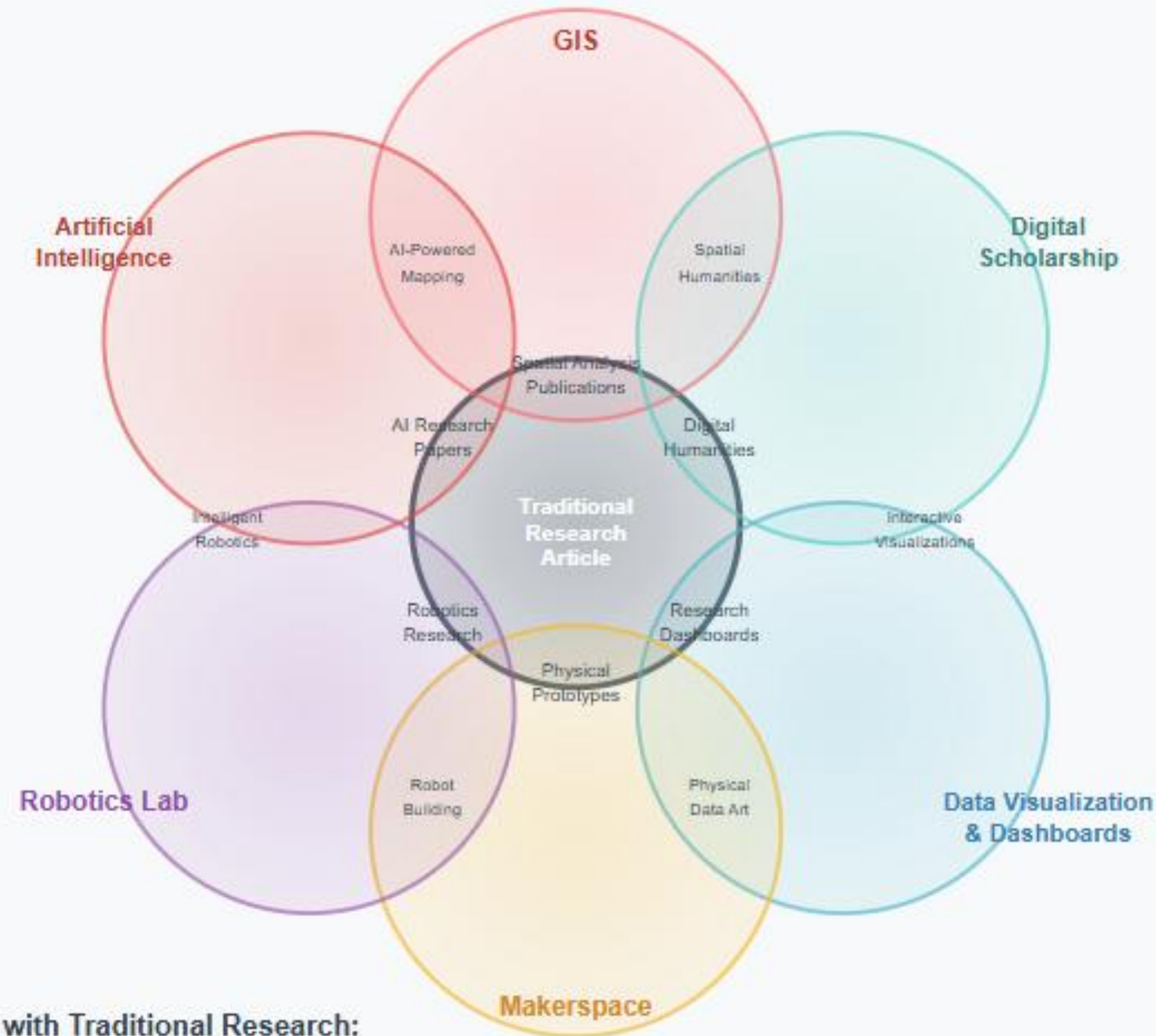
Collection Platforms  
Interlibrary Loan & Guides  
Training Resources/  
Workshops/Consultations





# Research Approaches Centered on Traditional Research Articles

## Technology Enhanced Articles and New Research Artifacts



### Key Intersections with Traditional Research:

- **GIS**: Geographic and spatial analysis papers, cartographic studies
- **Digital Scholarship**: Computational humanities, digital archives research
- **Data Visualization**: Research dashboards, academic infographics
- **Makerspace**: Research prototypes, experimental apparatus
- **Robotics Lab**: Robotics research publications, technical papers
- **Artificial Intelligence**: AI/ML research papers, algorithmic studies

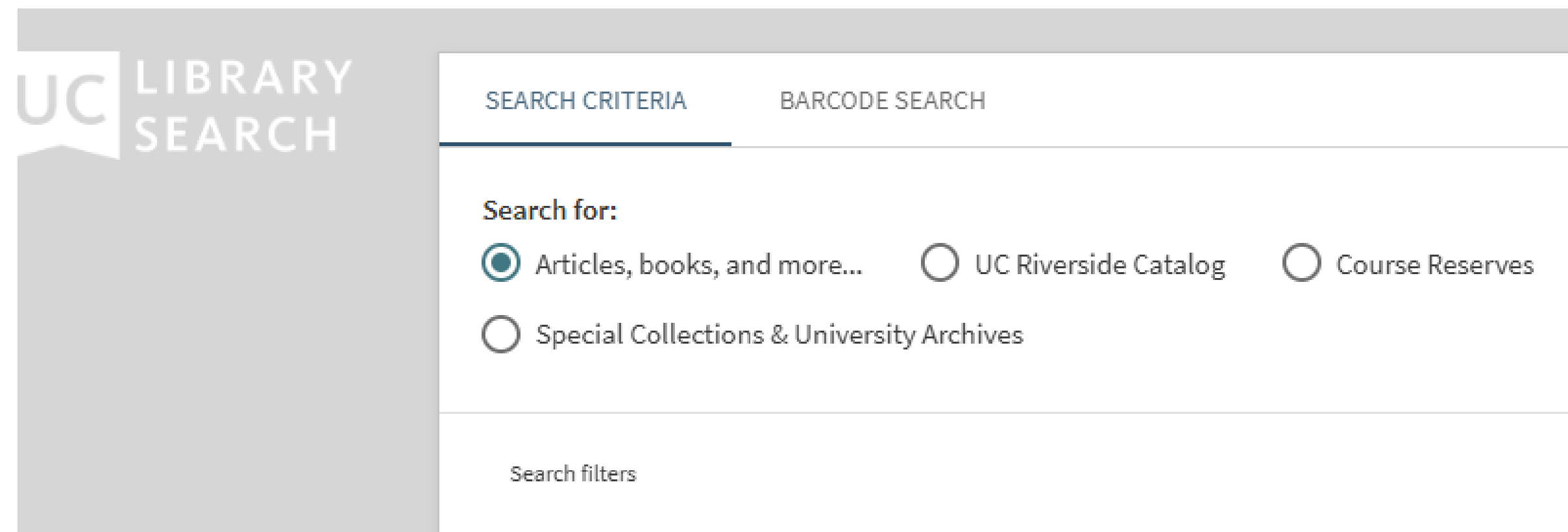
**RESEARCH  
SERVICES  
& AND  
TECHNOLOGY**

# UC LIBRARY SEARCH

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Searches all digital media and subscription-based e-content across the UC system

- [Homepage](#)
  - [Guide](#)

A screenshot of the UC Library Search web interface. On the left is a grey sidebar with the 'UC LIBRARY SEARCH' logo. The main content area has a light grey header with two tabs: 'SEARCH CRITERIA' (active) and 'BARCODE SEARCH'. Below the tabs, the 'Search for:' section contains four radio button options: 'Articles, books, and more...' (selected), 'UC Riverside Catalog', 'Course Reserves', and 'Special Collections & University Archives'. Below this is a 'Search filters' section with a horizontal line of dots.

UC LIBRARY SEARCH

SEARCH CRITERIA    BARCODE SEARCH

Search for:

☒ Articles, books, and more...    ☐ UC Riverside Catalog    ☐ Course Reserves

☐ Special Collections & University Archives

Search filters

**Get it at UC:**

[https://www.youtube.com/watch?v=RUBr-iS\\_Jao](https://www.youtube.com/watch?v=RUBr-iS_Jao)



# ACADEMIC DATABASES

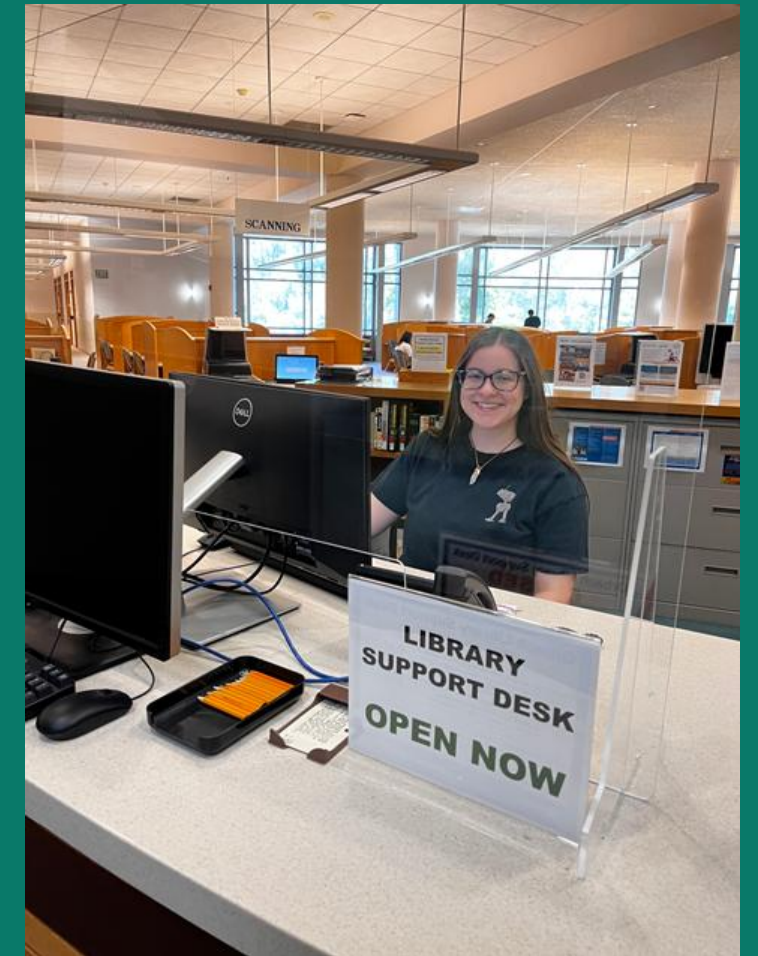
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Subscription-based [academic databases](#) enable access to e-resources

- Over 548 Disciplinary and Multidisciplinary

Databases & Citation Databases:

- [EBSCO Academic Search Complete](#), [Web of Science](#), [JSTOR](#), [ProQuest Dissertations & Theses](#)
- Databases are searched using keywords or other types of search queries
- Accessed using the [A to Z List](#)





# ACADEMIC JOURNALS

Journal Search

Title or ISSN

Journals by category

> Arts, Architecture & Applied Arts

> Business & Economics

> Earth & Environmental Sciences

> Engineering & Applied Sciences

> Applied Mathematics

> Applied Physics

> Computer Science

> Engineering

> General

> Health & Biological Sciences

> History & Archaeology

> Journalism & Communications

> Languages & Literatures

> Law, Politics & Government

> Music, Dance, Drama & Film


> Philosophy & Religion

> Physical Sciences & Mathematics

> Social Sciences

PAGE 1 1-25 of 9,856 journals found: Engineering & Applied Sciences

1



JOURNAL

علوم و مهندسی آب و فاضلاب


'Ulūm va muhandīsī-i āb va fāẓilāb

Tihrān : Anjuman-i Āb va Fāẓilāb-i Īrān; تهران : انجمن آب و فاضلاب ایران; 1395- 2016 or 2017-

PEER REVIEWED OPEN ACCESS

Available Online >

2




JOURNAL

01net

Paris : NEWCO 1?; 2013

Available Online >

3



JOURNAL


102 monitor

Washington, D.C.? : The Agency : Supt. of Docs., U.S. G.P.O., distributor; -1981

Physical copy available at Rivera Library Government Documents US (EP 1.76:) >

Map it

4



JOURNAL


218x\_OECD Papers on Budgeting

OECD Publishing,. author, issuing body.

Paris : OECD Publishing; 2024

Available Online >

5



JOURNAL

21st century fuels.

Potomac, MD : Hart Publications; ©1994-

Available Online >



# INTERLIBRARY LOAN

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[Interlibrary Loan](#) is a free service that allows students, faculty, and staff to request resources not in the UC library system





# RESEARCH POSTER PRINTING SERVICE

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Our Research Poster Printing Services offer high-quality, large-format printing.

Ideal for:

- conference presentations
- class projects
- research showcases
- (affordable rates)






# LIBRARY GUIDES

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The library provides detailed guides on a wide range of Information Related Services –


- [Research Guides](#)
  - [UC Library Search](#)
  - [Getting Started with Research](#)
  - [Writing an Annotated Bibliography](#)
  - [Citation Management](#)
  - [Poster Printing](#)



**WORKSHOPS**

**Using Zotero for Citation Management**

Thu, May 1, 2025 11am to 12:30pm

 Virtual Event

**Free**

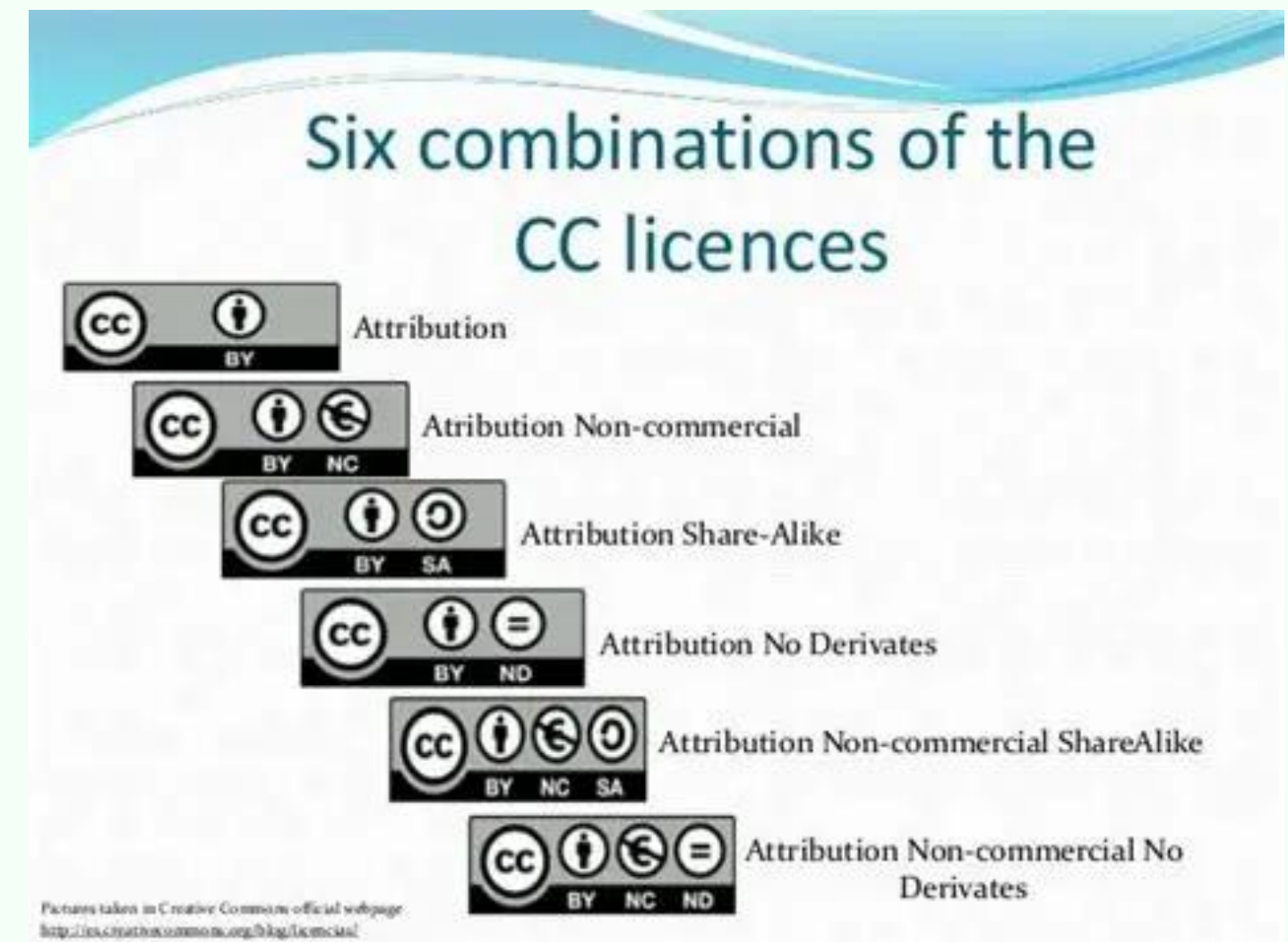


# RESEARCH HELP RESOURCES

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The library provides an array of research support oriented resources –

- [Homepage](#)
- [Research Fundamentals](#)
- [Finding and Evaluating](#)
- [Locating Images & Photos](#)
- [Locating Maps & GIS](#)
- [Using Creative Commons Licenses](#)
- [Managing your Data](#)
- [Understanding Open Access \(OA\)](#)





# LIBRARY WORKSHOPS

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The Library provides free workshops on topics like:

- Citation management
- Data management
- Digital scholarship
- GIS applications
- 3D printing, Arduino, and more.



# LIBRARY RESEARCH SERVICES

## MONTHLY & MEETUPS, THEMATIC WEEKS



### Geospatial/GIS Meetups

Thu, Oct 17, 2024 12pm to 12:50pm

📍 Rivera Library (or over Zoom),  
Room 140

🖥️ Stream Available

Free

THURSDAY, NOVEMBER 7



### Introduction to StoryMaps

Thu, Nov 7, 2024 2pm to 3pm

📍 Orbach Library (Science Library),  
Room 122 (Zoom option also...)

🖥️ Stream Available

Free

SATURDAY, NOVEMBER 23



### Raspberry Pi Jam: Intro to Raspberry Pi and...

Sat, Nov 23, 2024 2pm to 3pm

📍 Orbach Library, Room 122

FREE

TUESDAY, FEBRUARY 11



### UC Love Data Week

Tue, Feb 11, 2025

🖥️ Virtual Event

Free



# LIBRARY SUPPORT DESK

## Library Support Information Desks @ Orbach and Rivera

Our Library Support Desk (Information Desk) provides in-person assistance with:

Research,

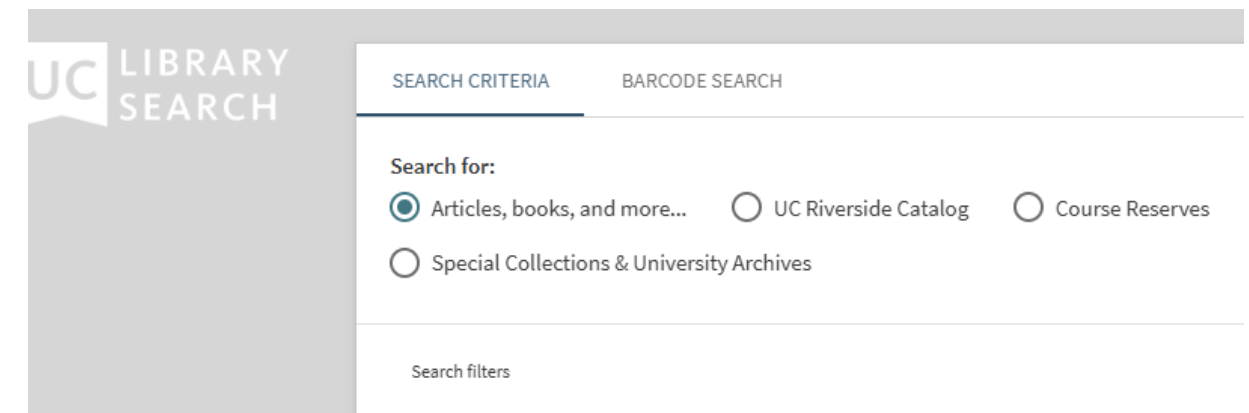
Printing,

Navigating library resources,

Helping users navigate less defined requests by

Connecting them with the appropriate services or staff

best equipped to support their needs.



**Get it at UC:**

[https://www.youtube.com/watch?v=RUBr-iS\\_Jao](https://www.youtube.com/watch?v=RUBr-iS_Jao)

# CONSULTATIONS

Students can request a one-on-one appointment with a librarian

- Can be scheduled in-person or through Zoom
- Students are matched with a librarian
- Great way to establish a relationship with a librarian
- Students fill out a [form](#) and we do the rest!

Meet the *UCR librarians* available for a consultation!



**Britt Foster**

Director of Teaching and Learning



**Jing Han**

DigitalScholarship Librarian



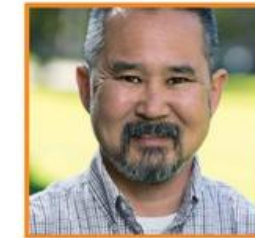
**Robin Katz**

Arts and Humanities Teaching Librarian



**Janet Reyes**

Geospatial Information Librarian



**Michael Yonezawa**

Social Sciences Teaching Librarian



**Alvaro Alvarez**

Innovative Media Librarian



**Carrie Cruce**

Student Success and Engagement Librarian



**Andrew Lippert**

Special Collections Processing Archivist



**Mary-Michelle Moore**

STEM Teaching Librarian



**Sandy Enriquez**

Special Collections Public Services, Outreach/Community Engagement Librarian



**Mary Rodríguez-Sweeney**

Area Studies and Interdisciplinary Studies Teaching Librarian



**Phoenix Alexander**

JayKay and Doris Klein Science Fiction Librarian



**Raymond Uzwysyn**

Director of Research Services

Contact us! Scan the QR Code to schedule your consultation.





NEW AT THE LIBRARY FOR OUR  
GRAD STUDENTS

## GradVantage

- *Rivera Library, 1st Floor*

- A new collaborative service and space hosted by Library Teaching and Learning and Grad Success, this center houses the TA Development Program and librarians and staff who are experts in teaching, learning, and assessment to **support our graduate student instructors** and their teaching development

- **Grad Student Study Space**

- *Rivera Library, 2nd Floor*

- This renovated wing features more seating and a range of options, for solo study or group conversations. Limited to grad students only

- 





# UCR Libraries Research Services

## Orbach Science Library

**Director of Research Services**

**Maker Space/Robotics Lab Services Coordinator**

**Research Services Information Assistant**

**Medical & Clinical Outreach Librarian**

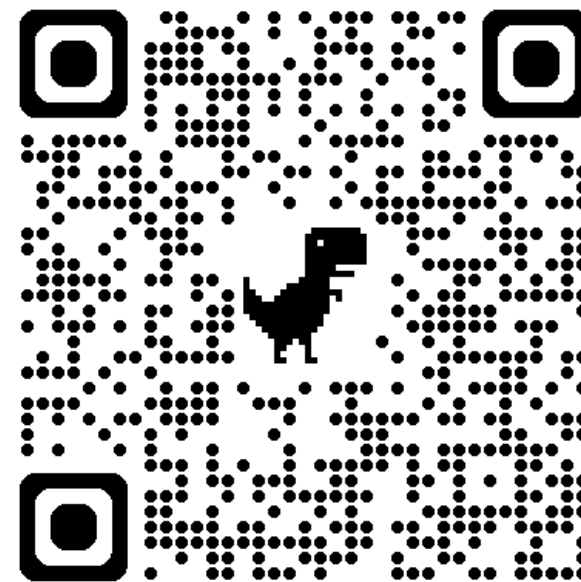
**Innovative Media Librarian**

**Digital Scholarship Librarian**

**Geospatial Information Systems Librarian**

**Research Data Scientist**

**AI Research Librarian (2)**  
**AI Research Scientist**





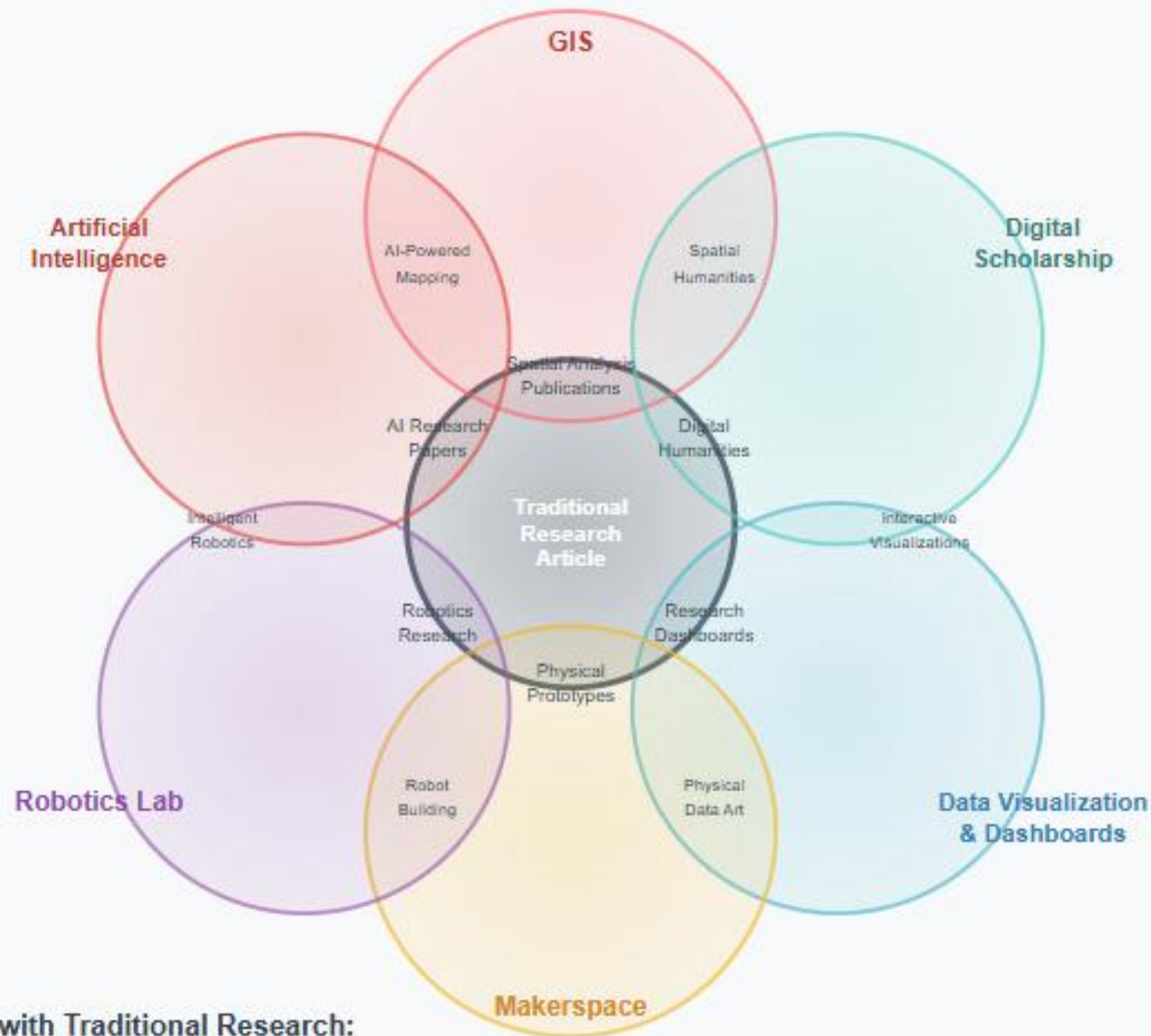
# RESEARCH SERVICES

Supports campus research by offering specialized expertise, resources, and services

- [Digital Scholarship](#) – digital tools, methods, and technologies
- [GIS Services](#) – data analysis, geospatial software, geospatial visualizations
- [Scholarly Communication](#) – support navigating open access and digital publishing landscape and managing scholarly identity
- [Maker & Robotics Lab Services](#) – provides access to prototyping equipment, 3D printing and modeling technologies, and fabrication resources
- [Data Services](#) – consultation on data management, analysis, and visualization

## Research Approaches Centered on Traditional Research Articles

# RESEARCH SERVICES

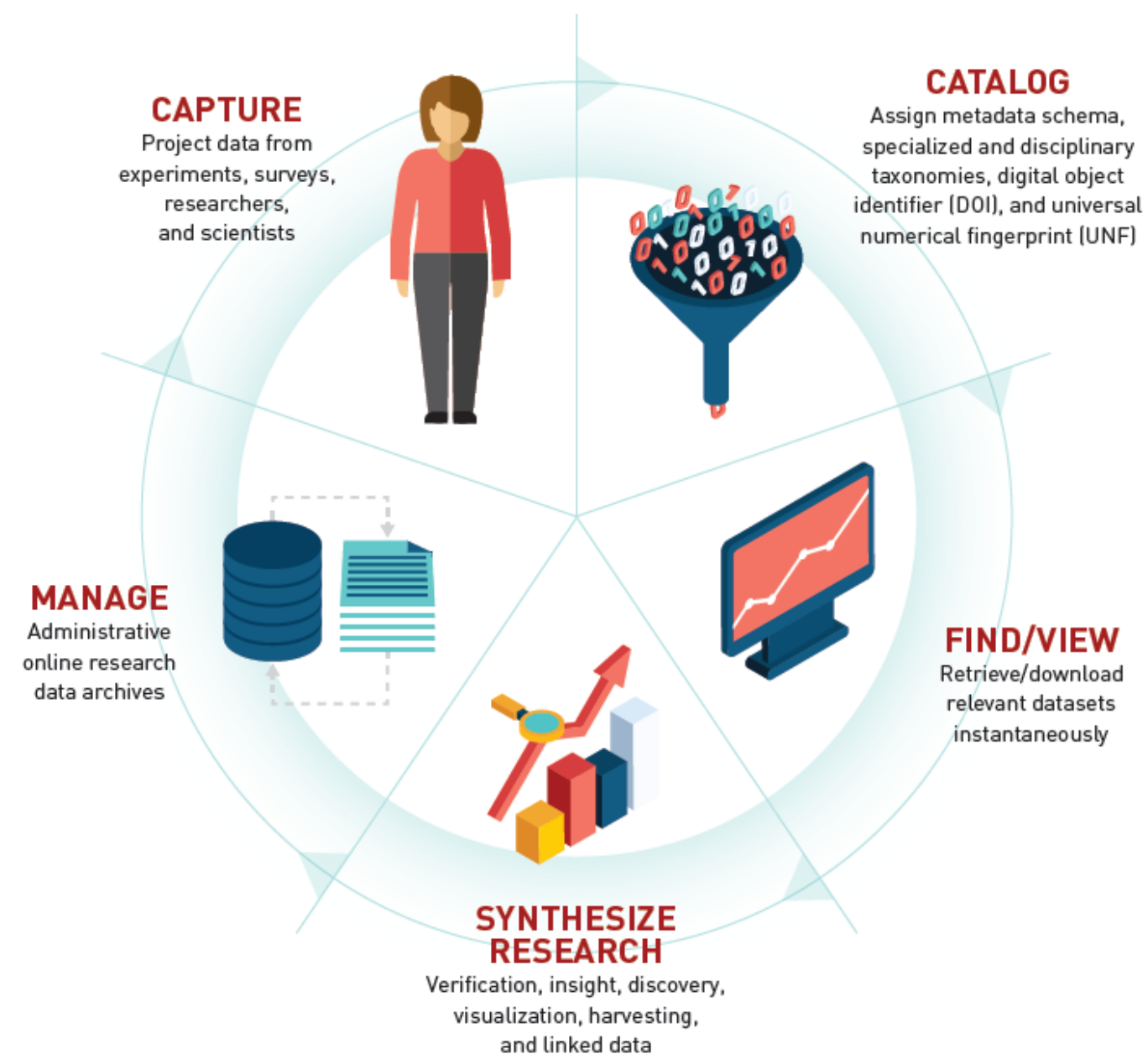


### Key Intersections with Traditional Research:

- **GIS**: Geographic and spatial analysis papers, cartographic studies
- **Digital Scholarship**: Computational humanities, digital archives research
- **Data Visualization**: Research dashboards, academic infographics
- **Makerspace**: Research prototypes, experimental apparatus
- **Robotics Lab**: Robotics research publications, technical papers
- **Artificial Intelligence**: AI/ML research papers, algorithmic studies



# DATA SERVICES SUPPORTS THE RESEARCH LIFECYCLE



# RESEARCH DATA LIFECYCLE SUPPORT

## Data Planning and Management

- Develop Data Mgmt. Plans (DMPs)
- Organize files and folders effectively



## Analysis and Visualization

- Clean and preprocess data
- Apply machine learning methods
- Create clear visualizations



## Data Sharing & Repositories

- Deposit research data into Dryad
- Ensure data is findable and reusable
- Meet journal and funder requirements





# How to Access Research Data Services

## Consultations

Get one-on-one support for your research data questions and needs



## Workshops

Build practical skills with research data and ML tools



### Upcoming Workshops

- Open Data Publishing with Data Dryad - October 23
- Open Data Management and Discovery - October 23
- Introduction to Python for Data Analysis - November 6

## Collaborations

Partner with us to support your research group's data needs

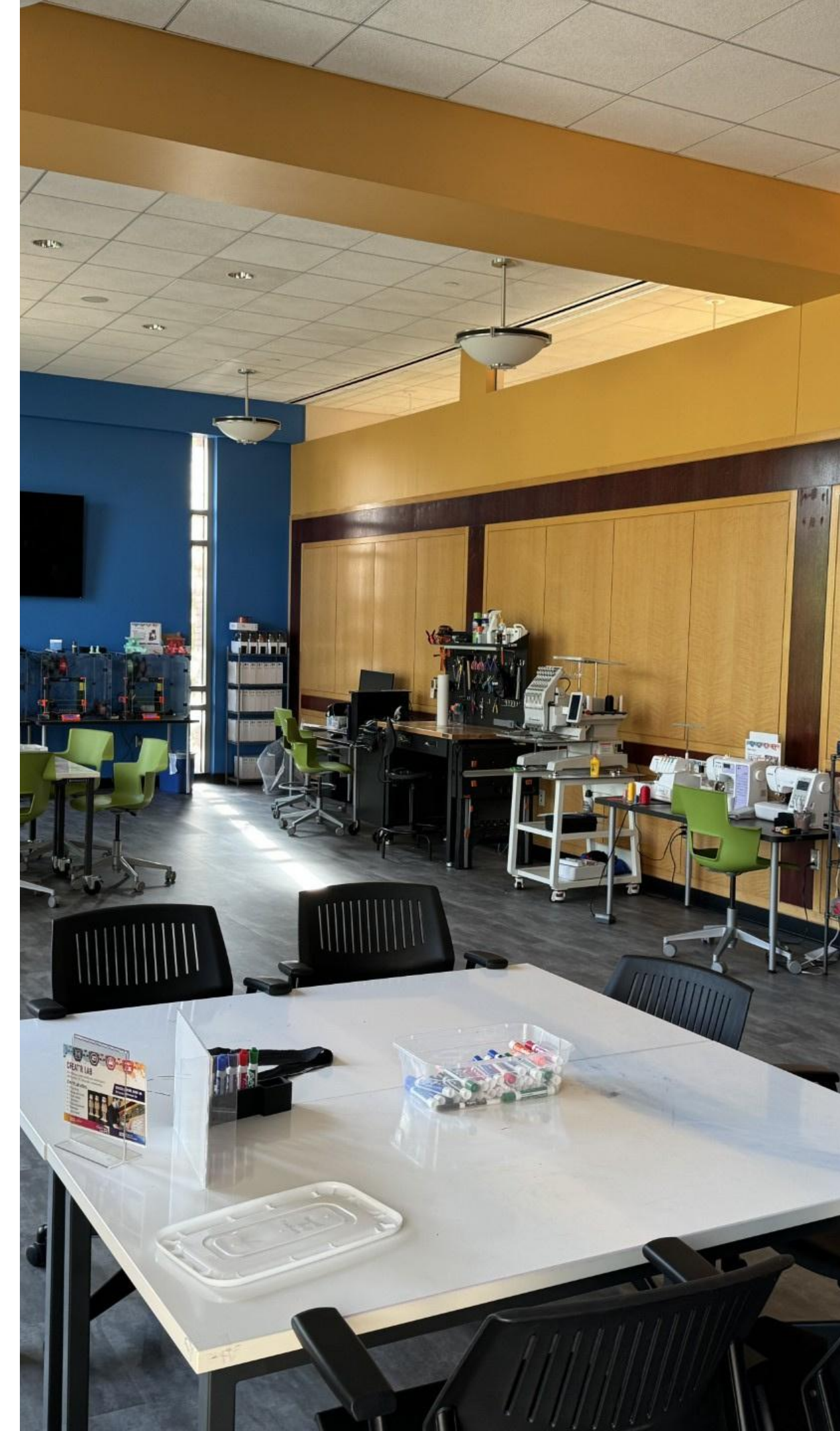


# CREAT'R LABS

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The Creat'R Labs in Research Services offers access to innovative media and technology

- [Makerspace](#)
  - 3D printing, sewing machines, VR, electronics, media equipment
- [Robotics Lab](#) sensors, kits, Arduino, raspberry pi
- [3DXP Lab](#) (Multimedia lab. Green Screen, Digital Video, VR, XR)
- [STAR Lab](#), NVIDIA GPU's , Specialized Software





# Research Support in the Labs

**3D Modeling**  
**3D Scanning**  
**3D Printing**  
**MultiMedia Skills**  
**(Film & Photography)**  
**Graphic Design**



# Research Support in the Labs

**Robotics**  
**Senior Design Mentorship**  
**Artificial Intelligence**  
**Integration**  
**Animation & Simulations**



## Raspberry Pi Jam: Using the PI Camera

Wed, May 7, 2025 3pm to 4pm

📍 Orbach Library (Science Library),  
Room 122

**FREE**



## Deep Research: AI Tools for Research and Study

Tue, May 13, 2025 10am to 11:30am

📍 Orbach Library (Science Library),  
Room 122

**Free**



# CreatR Lab, Orbach Science Library



**Offers research support through skills and equipment in the lab**

**Lab maintains:  
3D printers,  
textile digital  
equipment,  
laser engraver,  
workbench, tools**

- **Staff and student assistants available to help with projects**



**Digital Scholarship  
Project Types and Best...**

Wed, May 21, 2025 2pm to 3pm

📍 Orbach Library (Science Library),  
Room 122 or Zoom

🖥️ Stream Available

Free



# ROBOTICS LAB

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Offers research support through skills and equipment in the lab

Lab maintains microcontrollers, sensors and microcomputers

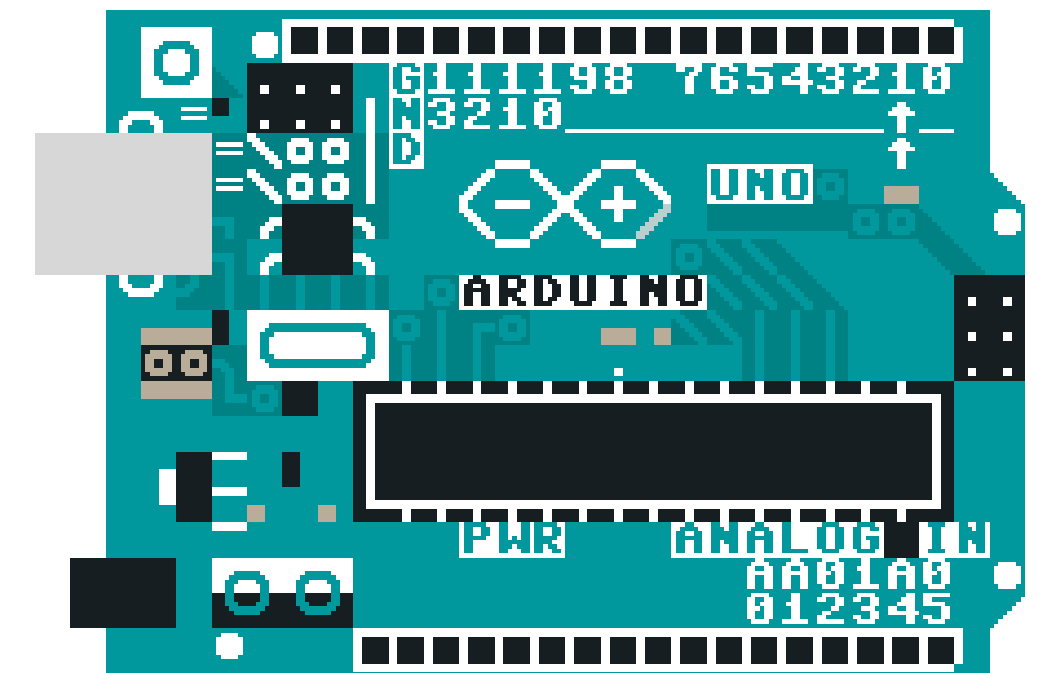
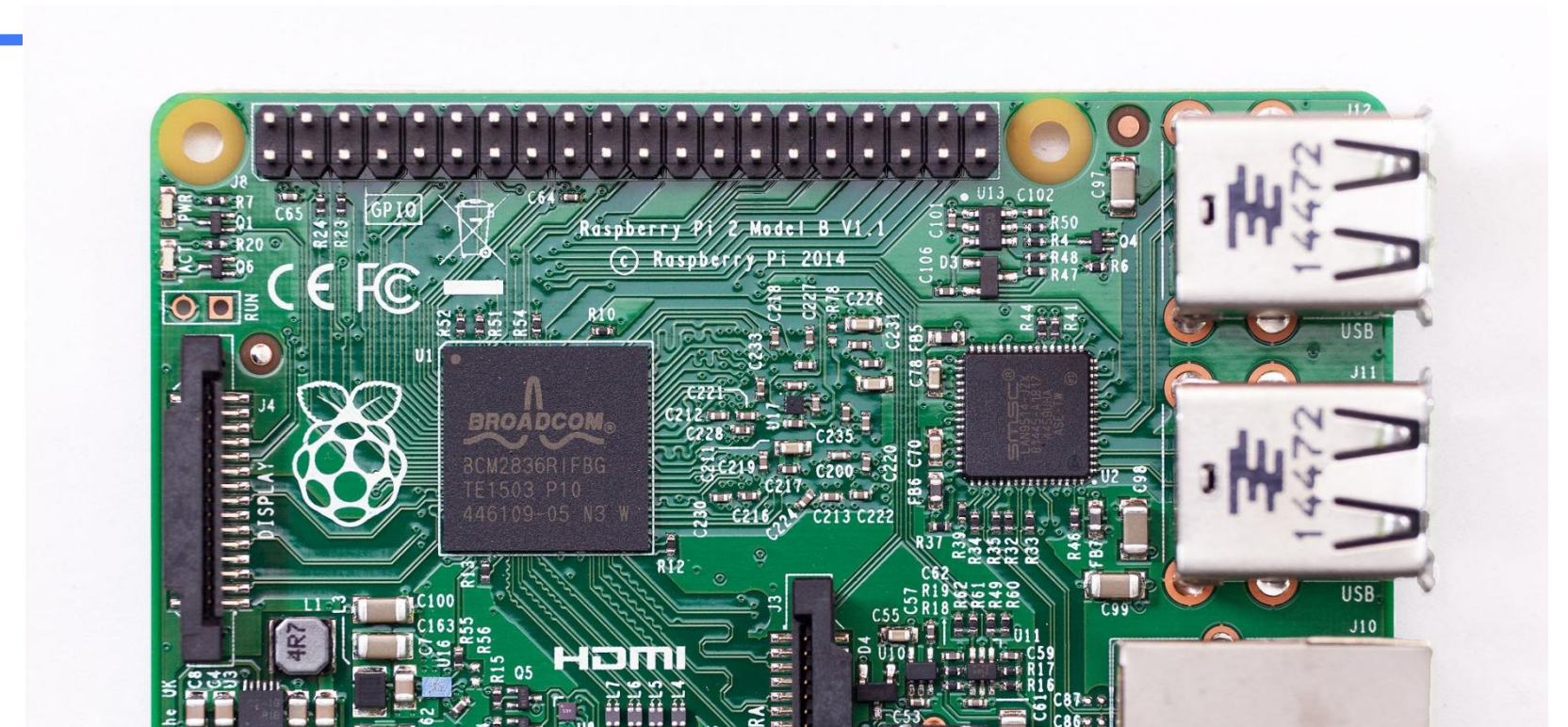
Staff and students assistants available to assist with research



# ROBOTICS LAB

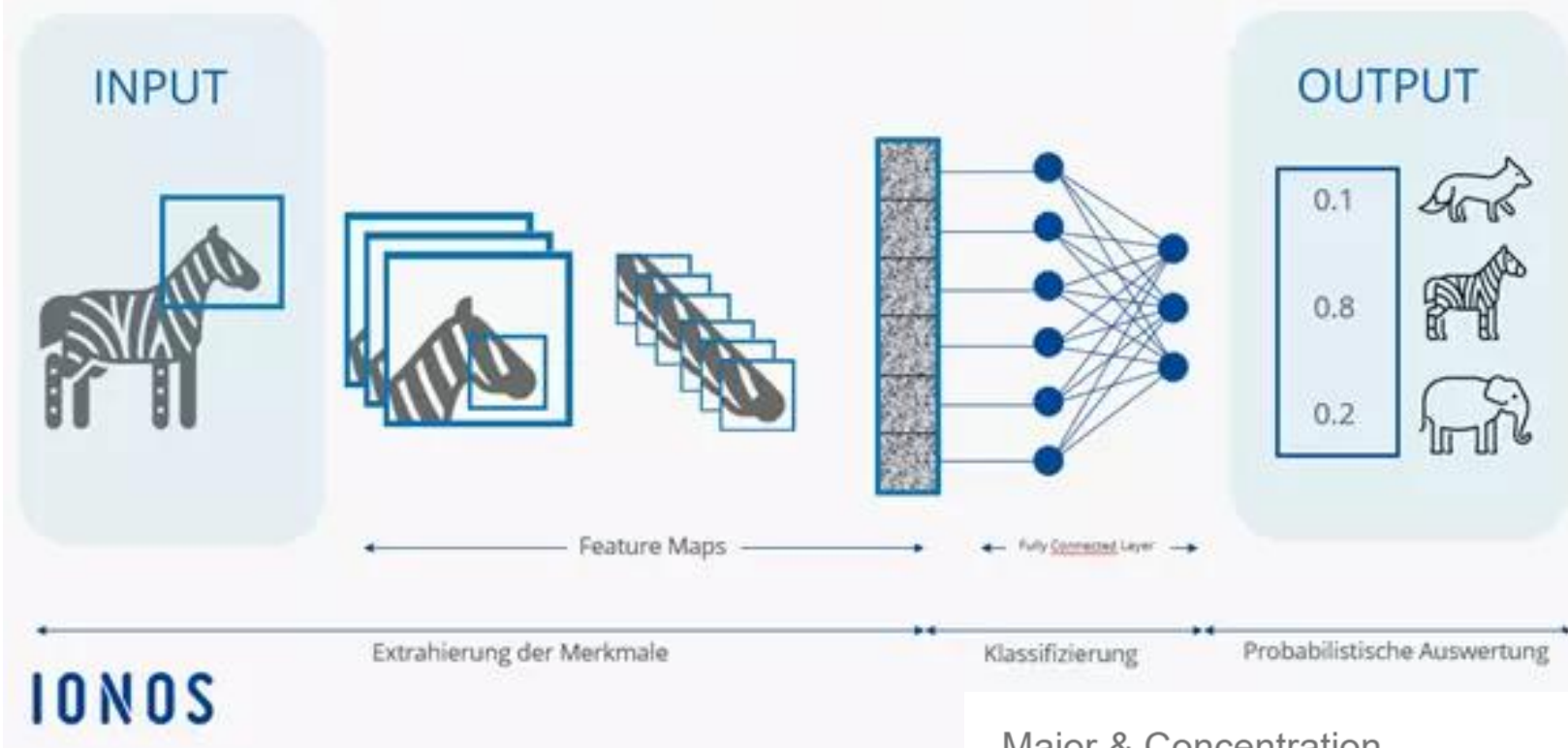
## Robotics Lab Components Tools and Kits

1. Raspberry Pi Microcomputer
2. Arduino Nano Microcontroller
3. Sensors
4. Soldering Irons
5. Tool Kit
6. Nuts, bolts and fasteners
7. 3D Printed Chassis(PLA)



# ROBOTICS LAB WORKSHOPS AND AI

## CONVOLUTIONAL NEURAL NETWORK (CNN)



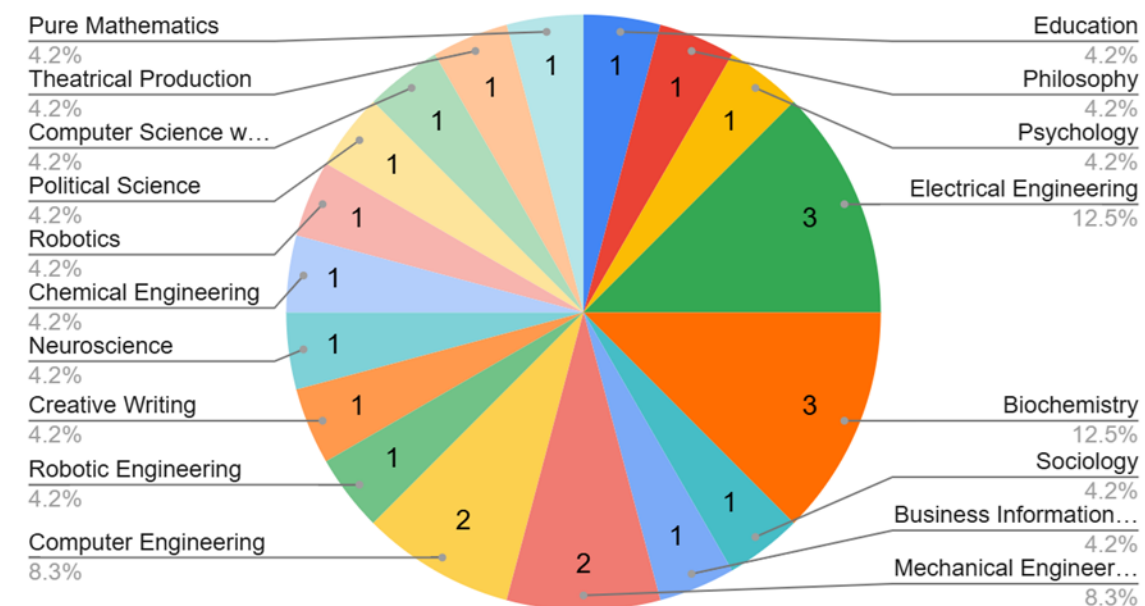
- An AI training method, which teaches the model to recognize items based on an image

- Convolutional Neural Nets Integrated with Robotics

- Students were taught how to train the model and how to use the model in a real application



## Major & Concentration





# 3DXP Lab



**Multimedia Lab, Winner of Unity and Meta Immersive Learning VR Grant**

**Offers research support through VR, AR and 3D Scanners, VR Headsets, skills and equipment in the lab**

**Lab maintains cameras, lighting and high performance computers  
Student assistants and staff can help with projects**





# STAR LAB

The [STAR Lab](#) includes high-performance Windows PC workstations and an Epson Photo Scanner.

All workstations provide software for:

- Data analysis, data visualization,
- AV and multimedia editing,
- Computer-aided design (CAD),
- Geographic information systems (GIS)



## STAR Lab

Scholarly Technology and Research Lab

*Advanced software & tech for your research!*

**SEATS ARE AVAILABLE:**

**Monday -Friday**

*Except for holidays and library closures*



**For policies and more information**



**Book a seat for a key to your future (and this room)!**

**Questions? Ask at the Information Desk!**



# GEOSPATIAL SERVICES (GIS)

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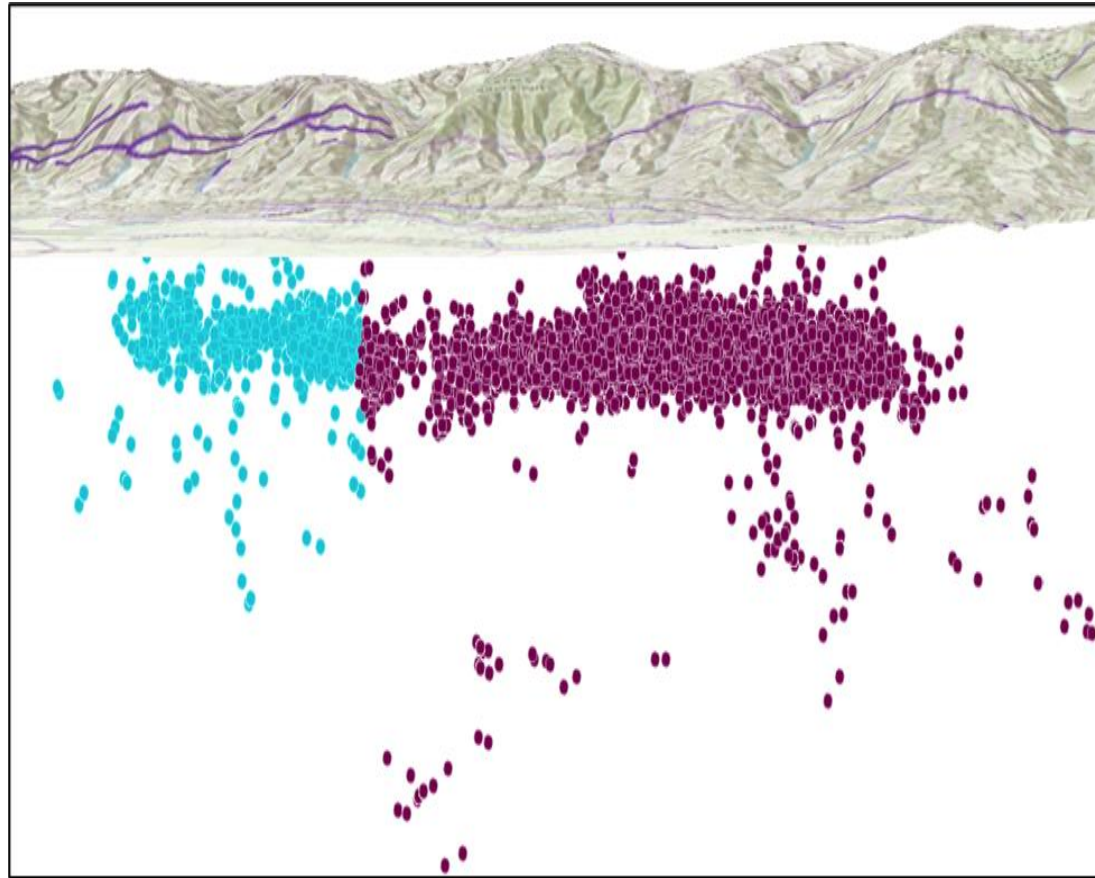
Support is available for:

- Finding and formatting geospatial data, including imagery
- Using GIS platforms
  - o Esri products (ArcGIS Pro, ArcGIS Online, etc.)
  - o QGIS (Open Source GIS)
  - o Google Earth and Google Earth Pro
- Hexagon (Declassified Satellite Data (California))
- Performing common GIS procedures
- Participating in research projects
- Training via public or targeted workshops

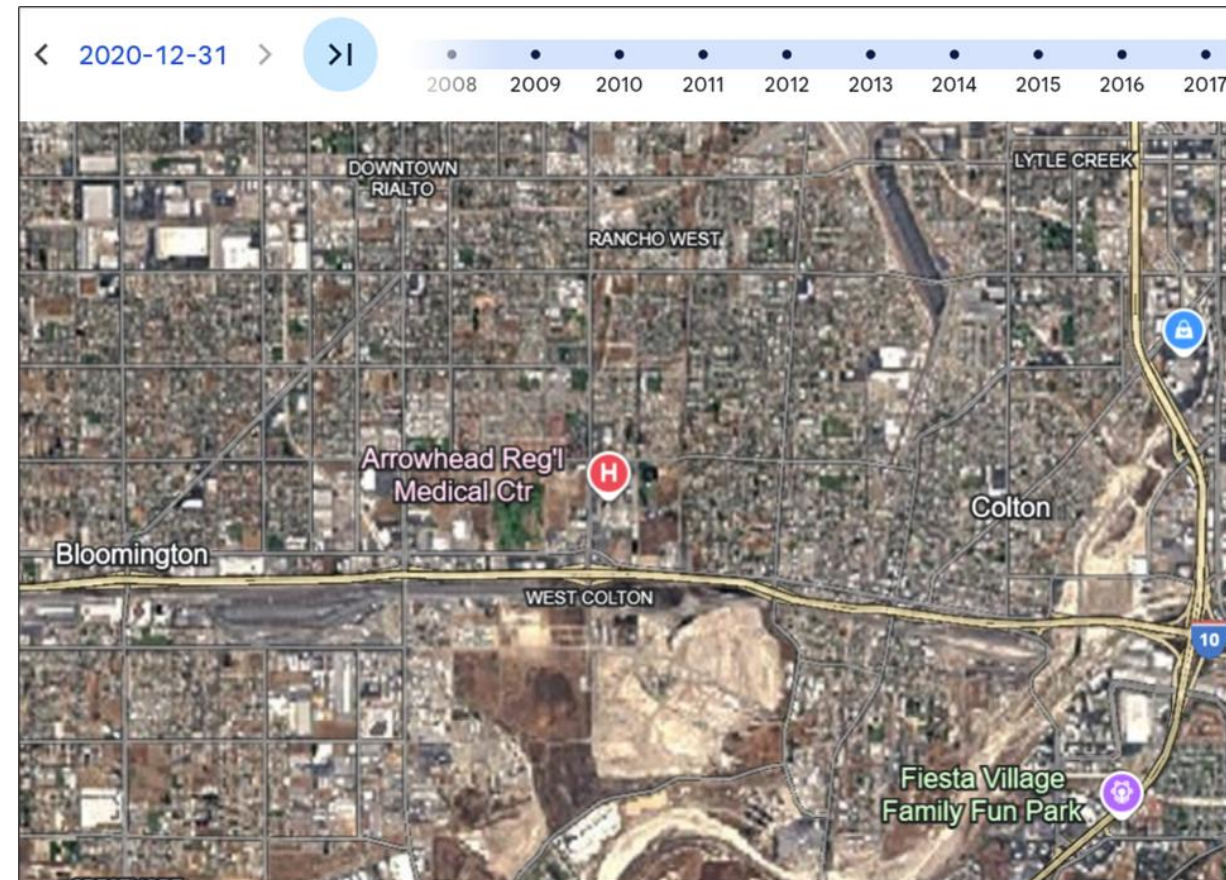




# GEOSPATIAL SERVICES (GIS)



3D Earthquake Visualization with Underground Earthquake Points (ArcGIS Pro)



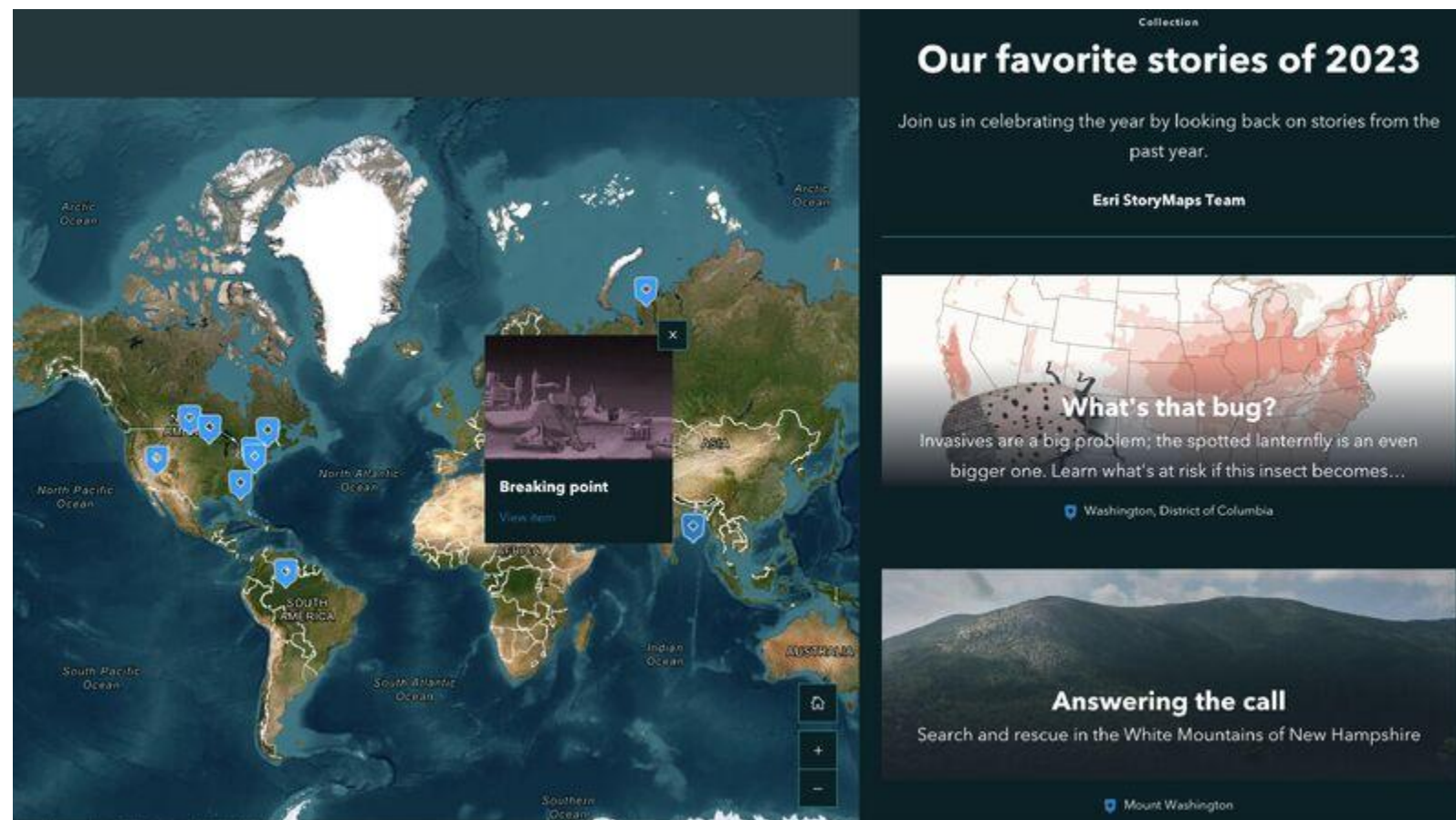
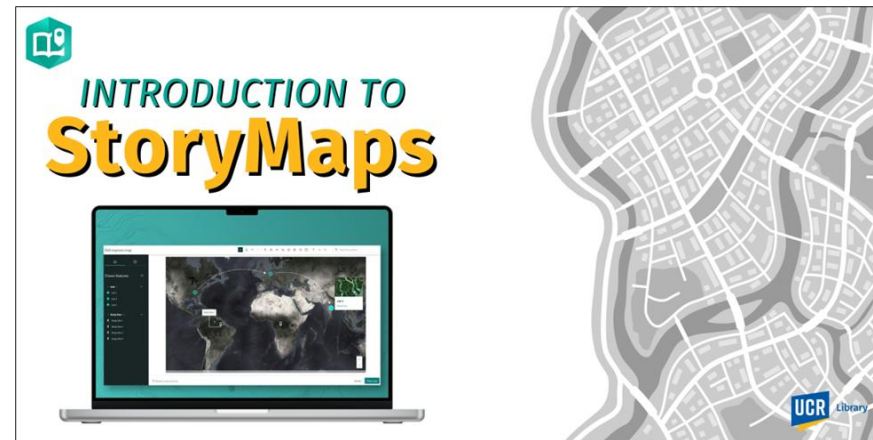
GIS + Google Earth to View Changing Imagery Over Time

- ▶ Raster tools
- ▶ Vector analysis
  - Σ Basic statistics for fields
  - ⚙️ Climb along line
  - 📍 Count points in polygon
  - ⚙️ DBSCAN clustering
  - 📊 Distance matrix
  - ⚙️ Distance to nearest hub (line to hub)
  - ⚙️ Distance to nearest hub (points)
  - ⚙️ Join by lines (hub lines)
  - ⚙️ K-means clustering
  - 📋 List unique values
  - 📍 Mean coordinate(s)
  - 🔑 Nearest neighbour analysis
  - 📊 Overlap analysis
  - ⚙️ Shortest line between features
  - ⚙️ ST-DBSCAN clustering
  - Σ Statistics by categories
  - 📏 Sum line lengths
- ▶ Vector creation
- ▶ Vector general

Open Source Tools, QGIS  
Transportation Planning



# GEOSPATIAL SERVICES GIS



In a collaboration with the Artificial Intelligence for Sustainable Agriculture (AI4SA) project, the library hosted Planet Imagery Day on May 2, 2025. The event featured presentations regarding using Planet imagery in Google Earth Engine and in ArcGIS products, given by staff from Planet and Esri respectively.



# DIGITAL SCHOLARSHIP

## Areas of Support

- **Open Access Publishing**

*Support scholars at all career stages—from undergraduate researchers to faculty and staff—in navigating publishing opportunities throughout the research lifecycle. eScholarship, Digital Preprint Repository, Janeway (Referred Online Electronic Journals, Colloquium/Conference Proceedings*

- **Open Access**

*Increase the visibility and accessibility of your research through open access. Learn about open access models, funder mandates, and how to deposit your work in UC's institutional repository, [eScholarship](#) and through [UC's Publication Management System](#).*



University of California  
**CDL**  
California Digital Library



eScholarship  
University of California



# DIGITAL SCHOLARSHIP

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- The UCR Library Digital Scholarship Service supports researchers and students in integrating digital tools, methods, and technologies into their **research, teaching, learning, and publishing.**
- We help you explore how your existing interests or projects could be transformed into digital scholarship that is interdisciplinary, interactive, community-driven, and technology-enhanced.



# DIGITAL SCHOLARSHIP

---

- Textual Encoding (TEI, XML)
- Computational & Qualitative Text Analysis
- Data Analysis & Visualization
- Network Analysis
- Storytelling & Creative Coding
- Web Scraping & Digital Archiving
- Digital Media Production





# Signature Program

- **Open Access Week**
  - Each fall, the UCR Library participates in Open Access Week—an international celebration that promotes equitable access to research and scholarship.
- Scholarly Communication Services hosts a week of workshops and special events highlighting open access practices and opportunities

## Open Access Week 2018

Enhancing the **Efficiency, Visibility and Impact** of Your Research

### Workshop Series

All sessions start at 3:00 p.m. Location: Orbach Library, Room 122



Publishing the research result is the major goal of researchers. Knowing some of the crucial issues related to publishing will help save your time and make a good publishing plan. We will discuss ten such important issues that a researcher must know. The session will also discuss how library can help our researchers in this regard. RSVP: [oa-week-publishing.eventbrite.com](https://oa-week-publishing.eventbrite.com)



This workshop will discuss differences between open, shared, and closed data; identify places to find open data; and, steps to take when creating a dataset using open data. RSVP: [oa-week-data.eventbrite.com](https://oa-week-data.eventbrite.com)



QGIS is a free and open source geographic information system. It allows users to create, edit, visualize, analyze and publish geospatial information on Windows, Mac, Linux, and BSD. This workshop will introduce some of the basic mapping functions available in QGIS. RSVP: [oa-week-qgis.eventbrite.com](https://oa-week-qgis.eventbrite.com)



Please join us in creating a fantastical (but well-organized) research project in one hour in the (free!) Open Science Framework (OSF). OSF is not just for Science, it can be used for any kind of project. It is a tool to keep the documentation and communication of a project organized and accessible to anyone in the group (and beyond if desired). Let's work together to see whether or how this tool might help us enhance the efficiency and visibility of our work. RSVP: [oa-week-open-science.eventbrite.com](https://oa-week-open-science.eventbrite.com)

# ➤ Open Research and Creative Activities Forum (ORCA) Signature Program

- Open Research and Creative Activities (ORCA) Forum
  - Quarterly event showcasing outstanding student projects from all disciplines.
  - Emphasizes interdisciplinary work and open scholarship.
  - Finalists present at Orbach Science Library and may publish their work (code, data, multimedia) in eScholarship with DOIs.
  - Learn more & submit at the [ORCA website](#).



**Open Research**  
& **Creative Activities**  
 **Forum**



# Digital Scholarship Signature Programs

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- The Reference Desk Podcast
  - Biweekly podcast
  - Features conversations with UCR faculty and student researchers.
  - Explores their projects, use of library tools, and the books shaping their thinking.



***The Reference Desk***

# DIGITAL SCHOLARSHIP CERTIFICATE

Want to learn how to use digital tools in your research? The UCR Library [Digital Scholarship Certificate](#) shows you how to integrate digital tools, methods, and technologies into your research, teaching, learning, and publishing.

Click the [link](#) or scan the QR code to self enroll on Canvas.



## Digital Scholarship Certificate

AWARDED BY  RIVERSIDE | Library

### EXPAND YOUR RESEARCH SKILLS IN DIGITAL METHODS AND TOOLS

#### How to Earn Your Certificate:

##### Undergraduate students

- Complete at least 3 workshops

##### Graduate students, faculty, and early-career researchers

- Complete at least 5 workshops

Workshops may be chosen from either the **Graduate** or **Undergraduate track**, and can be completed in person or on Zoom.

**Enroll in our Canvas course** to complete guided assignments and track your progress toward certification

**Design and complete a capstone project** that demonstrates your applied digital scholarship skills

#### Workshops Offered:

- **Orientation:** Digital Scholarship Workshop Series (Sept 11)
- **Grad:** Building a Digital Research Portfolio Using No/Low Code Tools (Sept 18)
- **Grad:** Digital Scholarship Project Types and Best Practices (Nov 20)
- **Grad:** Computational Methods on Text Analysis (Jan 22)
- **Grad:** Qualitative Data Analysis & Tools (Feb 12)
- **Grad:** Introduction to XR Design and 3D Experiences (Mar 5)
- **Grad:** Building Your Academic Profile Online (Apr 23)
- **Grad:** Navigating Open Access Repositories & Publishing with eScholarship (Apr 30)
- **Undergrad:** Building a Digital Research Portfolio Using No/Low Code Tools (Oct 9)
- **Undergrad:** Digital Scholarship Project Types and Best Practices (Nov 13)
- **Undergrad:** Building 2D Online Exhibits: Omeka and More (Feb 5)
- **Undergrad:** Introduction to XR Design and 3D Experiences (Feb 26)



**Ready to get started?** Contact Jing Han ([jingh@ucr.edu](mailto:jingh@ucr.edu)) or **scan the QR code** to self-enroll on Canvas or visit [elearn.ucr.edu/enroll/3XMY8L](https://elearn.ucr.edu/enroll/3XMY8L).





## Digital Scholarship Certificate

AWARDED BY **UC RIVERSIDE** Library

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- **Grad:** Qualitative Data Analysis & Tools (Feb 12)
- **Grad:** Introduction to XR Design and 3D Experiences (Mar 5)
- **Grad:** Building Your Academic Profile Online (Apr 23)
- **Grad:** Navigating Open Access Repositories & Publishing with eScholarship (Apr 30)
- **Undergrad:** Building a Digital Research Portfolio Using No/Low Code Tools (Oct 9)
- **Undergrad:** Digital Scholarship Project Types and Best Practices (Nov 13)
- **Undergrad:** Building 2D Online Exhibits: Omeka and More (Feb 5)
- **Undergrad:** Introduction to XR Design and 3D Experiences (Feb 26)



**Ready to get started?** Contact Jing Han ([jingh@ucr.edu](mailto:jingh@ucr.edu)) or **scan the QR code** to self-enroll on Canvas or visit [elearn.ucr.edu/enroll/3XMY8L](https://elearn.ucr.edu/enroll/3XMY8L).

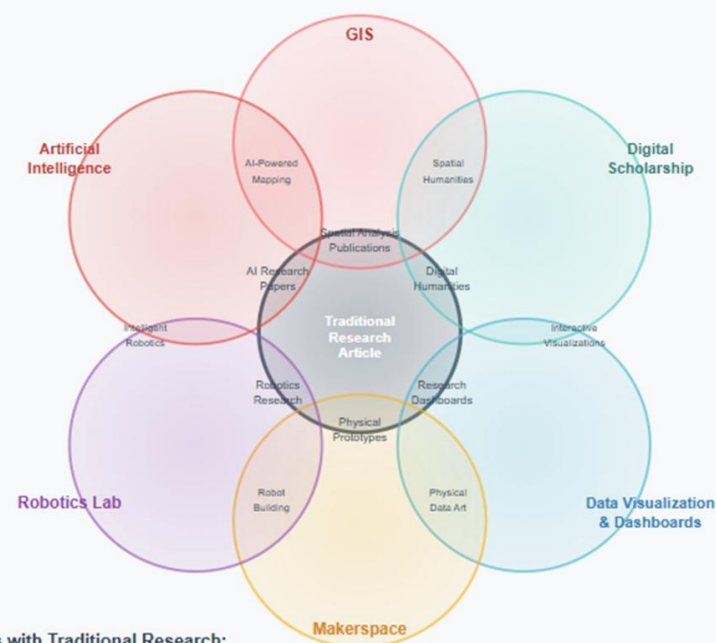


# THANK YOU!

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## QUESTIONS?

### Research Approaches Centered on Traditional Research Articles



#### Key Intersections with Traditional Research:

- **GIS:** Geographic and spatial analysis papers, cartographic studies
- **Digital Scholarship:** Computational humanities, digital archives research
- **Data Visualization:** Research dashboards, academic infographics
- **Makerspace:** Research prototypes, experimental apparatus
- **Robotics Lab:** Robotics research publications, technical papers
- **Artificial Intelligence:** AI/ML research papers, algorithmic studies

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