

Center for Research Data & Digital Scholarship

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Center for Research Data & Digital Scholarship

What is CRDDS?

- Data and information professionals, scholars, and educators with expertise across the research lifecycle
- Interdisciplinary, data-intensive research and teaching hub
- Support for all levels of researcher (from undergraduate to faculty)
- Aims to enhance data-based research and digital collaboration within the CU Community

What does CRDDS do?



What does CRDDS do?

Plan →

- Grant Planning
- Literature Review
- Data Management Plan
- Ethics & Compliance
- Data Governance
- Controlled Unclassified Information (CUI)
- Regulatory Compliance
- Data Protection

Develop ↓

- Advanced Computation
- Statistical Analysis
- Data Visualization: [CRDDS](#) | [LISA](#)
- Data Collection: [CRDDS](#) | [Core Facilities](#) | [LISA](#)
- Data Management: [CRDDS](#) | [LISA](#) | [OIS](#)
- Grant Administration & Management
- Commercialization

↑ Preserve

- Digital Repository
- Data Archive & Preservation
- Sample Archive & Presentation
- Data Curation & Sharing
- Data Retention & Disposal
- Award Conclusion
- Data Security: [OIS](#) | [IRB](#) | [Animal Care](#)

← Publish

- Copyright
- Web Development & Hosting: [OIT](#) | [Strategic Relations](#)
- Journal Publication
- Open Access

The Research Lifecycle

Education & Training

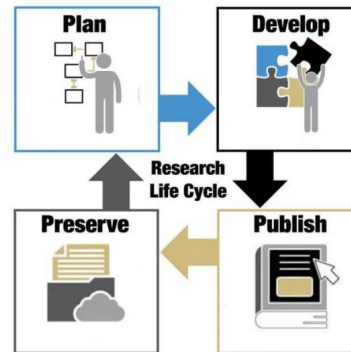
Digital Scholarship

Grant Support

Open Research Publishing

Research Data Infrastructure

The Research Lifecycle



Our Supports and Services

- Data analysis & (some) statistics
- Digital Humanities, digital projects, data-intensive research methods
- Computational social sciences
- Qualitative data analysis tools and approaches
- Data storytelling and visualization
- Open access, copyright, licenses, fair use, and scholarly publishing

Our Supports and Services

- Open journal publishing
- PetaLibrary storage
- High performance computing (Alpine supercomputer, Blanca clusters)
- Data publishing and sharing
- Grants
- Non-traditional scholarly output
- CU Scholar, our institutional repository
- Data visualization challenge

Buffalization Data Visualization Challenge

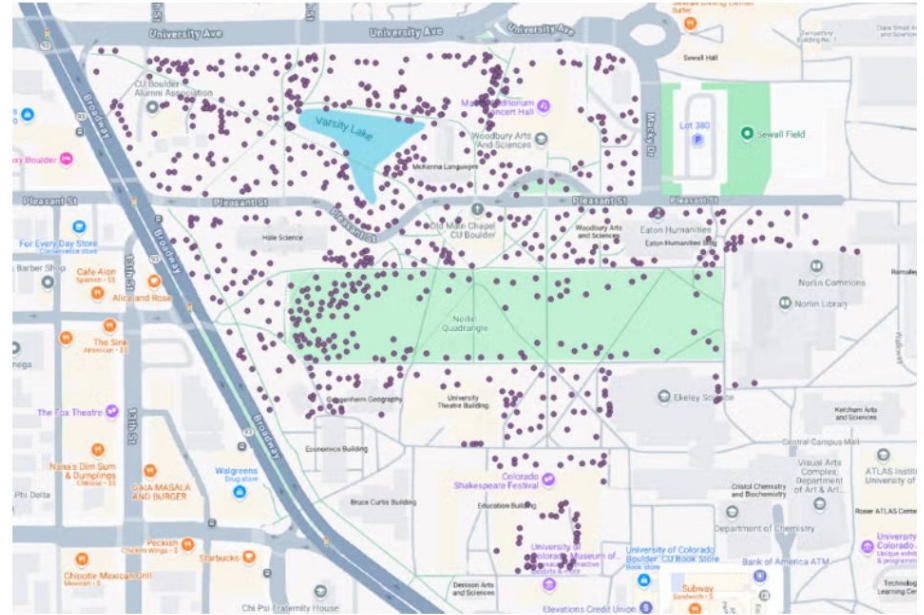
"The Buffalization Data Visualization Challenge was my favorite event I participated in last year and winning it added great value to my resume."

-Niranjan Cholendiran, Master of Science in Data Science

As part of [International Love Data Week 2025](#), we're holding our annual Buffalization Data Visualization challenge! We're inviting you to show off your data visualization and storytelling skills. Create a data visualization using a dataset of CU Boulder trees using your preferred software or tools. (You can even hand make or draw a visualization!)

- Here's the dataset you should use: [Data_Viz_Challenge_2025-UCB_Trees.csv](#)
- Deadline: Sunday, **February 16th**
- The dataset is a .csv file with information on 777 trees in the campus historic district (Norlin Quad and adjacent areas).
- Projects can submitted as an image or a link. Please submit your project using [this form](#). If handmaking your visualization, take a photo for the submission form.
- A panel of judges will select individual and team winners for undergraduate students and for graduate students.
- Visualizations will be judged on creativity, clarity, data accuracy, visual appeal, and storytelling.
- Winners will be announced by the end of February and prizes will be presented at an event in March.
- Winning entries will be featured on the CRDDS website, included in a data viz zine, and/or displayed in the University Libraries.

- Next challenge will be announced in January
- <https://www.colorado.edu/crdds/buffalization-data-visualization-challenge>



Education & Training



Workshops, Panels, & Presentations!

- Python & R
- Git/GitHub
- Intro to super- computing resources
- Wikidata
- Publishing & author's rights
- Data ethics
- Zotero
- Copyright & licenses
- Data visualization

Events

CRDDS offers a variety of workshops and other events that are open to all faculty, staff, students, and community members unless otherwise noted. If you'd like to sort the events list, choose from the following topics: [All Things Data](#), [Coding and Digital Tools](#), [Scholarly Publishing](#), [Digital Humanities](#), [Consultations](#).



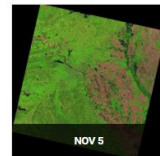
Interdisciplinary Data Consulting Hours,

Tuesdays

Need help with your research? CRDDS is here for you every Tuesday via Zoom or in-person. We host open, free consulting hours to help you with your data-intensive research...

NORLIN LIBRARY
○ 12PM MST

[I'm Interested](#)



GIS and Python: Working with Raster Data

Using Rasterio

Rasterio is a popular Python library for working with raster GIS data (geotiffs, arrays, etc.). Phil White, the Earth, Environment, and Geospatial Librarian, will walk...

NORLIN LIBRARY
○ 1PM MST

[I'm Interested](#)

November						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

[Today's Events](#)

[This Week's Events](#)

Choose Type ▼

Upcoming workshops

- November 5th: GIS and Python
- November 12th: Research Computing Workflow Workbench: LLMs
- November 17th: Data Zines for Trans Awareness
- Next semester: Research Data Foundations Camp
- <https://www.colorado.edu/crdds/events>

Research Data Foundations Camp

- Data Discovery
- Data Ethics
- Data Publishing and Repositories
- Data Management
- Interdisciplinary Tools
- GitHub and GitHub Pages
- Data analysis in R & Python

- Microcredential available!





Learning Materials

Check out CRDDS-produced videos, tutorials, and other learning materials. For slide decks, see our [OSF repository](#).

High-Performance Computing

- [Getting an Account](#)
- [Alpine New User Seminar](#)
- [Supercomputing Spin Up \(Linux & Job Submissions\)](#)
- [Alpine in Your Browser with Open OnDemand](#)
- [Data Transfer with Globus](#)
- [Command Line Data Transfer on CURC Resources](#)
- [Installing Software on Alpine \(An RC Tech Lab\)](#)
- [Installing Containerized Software on Alpine](#)
- [Installing Software on Alpine with Conda and Mamba](#)
- [Installing Software on Alpine with Spack](#)
- [Introduction to the Commercial Cloud](#)
- [Maximum Efficiency Using Parallelization](#)
- [Incredibly Easy Parallelization: High Throughput Computing](#)
- [Introduction to GPU Acceleration](#)
- [RC Video Library](#)

R Programming

- [R Workshop Series](#) (LISA)
 - [R Level Zero](#)
 - [Intro to R](#)
 - [Data Visualization in R](#)
 - [Statistics in R](#)
 - [Text Analysis in R](#)
 - [Structural Equation Modeling in R](#)
 - [Social Network Analysis in R](#)
- [Statistical Inference via Data Science: A ModernDive into R and the Tidyverse](#)

Python Programming

- [Tutorial: Introductory Python for Humanists + Data Visualization](#)
- [Tutorial: Introductory Python for Humanists + Text Analysis](#)
- [Tutorial: Using Python with Anaconda](#)
- [Intro to Python Series, Spring 2020](#)

Text and Data Mining

Research Data Management

External Learning Resources

Digital Humanities Graduate Certificate

- 9-credit hour program open to current graduate students
 - One core course: DHUM 5000: Introduction to Digital Humanities: Movements, Methods, and Tools
 - Two electives from approved course list:
 - colorado.edu/crdds/dhgc

Interdisciplinary Data Consulting Hours

- Get help working with all types of data and research computing resources
- Tuesdays & Thursdays
- Virtual or in-person (Norlin Library, E206)
- https://www.colorado.edu/crdds/events#drop_in_consultations-89



Interdisciplinary Data Consulting Hours, Thursdays

CRDDS is here for you every Thursday via Zoom only. We host open, free consulting hours to help you with your data-intensive research needs. Come with your application,...

🕒 1PM

[I'm Interested](#)



Interdisciplinary Data Consulting Hours, Tuesdays

Need help with you data? CRDDS is here for you every Tuesday via Zoom or in-person. Please register to receive the Zoom link. We host open, free consulting hours to help you...

📍 NORLIN LIBRARY

🕒 12PM

[I'm Interested](#)

Scholarly Communication



Scholarly Communication

- Finding journals
- Understanding fair use, copyright, and licensing
- Open Access publishing
- OA journal hosting
- Open Educational Resources
- Non-traditional scholarship

OA Funding

- Open Access Fund
 - For peer-reviewed, full open access journals
 - Up to \$2,000 per fiscal year
- Open Monograph Fund
 - Funds peer-reviewed, open access monographs

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- 

The emerging role of exosomes in stress physiology 

Creator: Beninson, Lida Ann

Subject: stress, immunity, exosomes

Resource Type: Dissertation
- 

Host and Viral Molecular Patterns Relevant to Pathogenicity and Immunity 

Creator: Stabell, Alexander Christian

Subject: evolution, viral, immunity, immune system, host

Resource Type: Dissertation
- 

Host and Viral Molecular Patterns Relevant to Pathogenicity and Immunity 

Creator: Stabell, Alexander Christian

Subject: RNase, Schlafen11, Schlafen12L, antiviral

Resource Type: Dissertation
- 

Infection of Immune Competent Macrophages Expressing Functional Slc11a1 Alters Global Gene Expression, Regulation of Metal Ions, and Infection Outcomes 

Creator: Janiszewski, Lara

Subject: Zinc, Nutritional immunity, Salmonella, Macrophage, Biochemistry, Biology

Resource Type: Dissertation
- 

Characterization of Chemical Probes for Therapeutic Intervention of Innate Immune Signaling 

Creator: Boville, Christina Elizabeth

[Explore Collections](#) [Featured Researcher](#)

- 

Peter G. Ossorio Collection
- 

Series in Anthropology
- 

Science Bootcamp for Librarians-West
- 

CU Boulder Open Educational Resources
- 

CU Boulder SoundWorks

[View all collections](#)

[Home / Dashboard](#)

Book Chapter

What About Crowdfunded Comics?

Public

Deposited

Analytics

Edit

Delete

Attach Child

Add to collection

Feature

Unfeature

Review and Approval

[Download](#)

Citations

Citations: ▾

Citeable URL: https://scholar.colorado.edu/concern/book_chapters/c821gm304

Abstract

Although many academic libraries have incorporated comics into their collections since the 1970s, there are sectors of the comics publishing landscape that remain underrepresented within them. One such area is crowdfunded comics. Crowdfunded comics present challenges for selectors because the act of purchasing them is speculative—supporters are funding an idea that has not yet come to fruition—and the titles themselves aren't represented in the tools librarians often use to curate collections such as “best of” lists, book reviews, or mainstream vendor catalogs. This qualitative study uses survey data collected from academic and public libraries to look at where comics fall within library collections, how selectors choose which comics to acquire, whether selectors are able to purchase crowdfunded materials, what types of crowdfunded materials are purchased, and what barriers there are to purchasing crowdfunded and self-published works.

Creator

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Date Issued

2023-10-04

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University of Illinois at Urbana-Champaign
University Libraries

Editor

Morris, Kate



University of Colorado Honors Journal

The *University of Colorado Honors Journal* is an interdisciplinary, student-run journal published annually by the Arts & Sciences Honors Program under the supervision of a faculty advisor and the Director of the Honors Program. The *Honors Journal* presents a collection of works that reflect the utmost talent, diligence, and creativity among undergraduate students at the University of Colorado Boulder.

Each year, the *Honors Journal* combines undergraduate work from all academic fields including but not limited to: art, creative nonfiction, fiction, gender & ethnic studies, humanities, natural sciences, open media, poetry, and social sciences. The *Honors Journal* is distributed and available to all students and departments at the University of Colorado, as well as other honors programs at other universities across the country. In order to reach a broader audience and showcase a greater variety of work, such as video and music, the *Journal* was expanded to include an online version in 2011.

[View Journal](#) [Current Issue](#)



Living Journal of Computational Molecular Science

The [Living Journal of Computational Molecular Science](#) (LiveCoMS) provides a peer-

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INFORMATION

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Honors Journal

University of Colorado

About the Journal

The *University of Colorado Honors Journal* is an interdisciplinary, student-run journal published annually by the Arts & Sciences Honors Program under the supervision of a faculty advisor and the Director of the Honors Program. The *Honors Journal* presents a collection of works that reflect the utmost talent, diligence, and creativity among undergraduate students at the University of Colorado Boulder.

Each year, the *Honors Journal* combines undergraduate work from all academic fields including but not limited to: art, creative nonfiction, fiction, gender & ethnic studies, humanities, natural sciences, open media, poetry, and social



Try to navigate academic life without spending your takeout food budget!

Learn about:

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Choose your character:

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https://cu-boulder-crdds.github.io/Open-Access-Odyssey/OA_Week_2025.html

What is Research Data?



**No two people on any
campus will agree on
what “Data” actually is.**



Things we can't agree on

- How it's pronounced
 - “day-ta” vs. “dah-ta”
- Whether it's singular or plural
 - “data is” or “data are”
- What do you call a singular piece of information
 - Does anyone actually use the term “datum”?
- Different disciplines will view different things as data

What is Research Data?

- Primary
 - Data you gather yourself
- Secondary
 - Data someone else gathered
- Quantitative
 - Data represented as numbers that can be counted (measurements)
- Qualitative data
 - Non-numeric data (e.g. Open-ended survey responses)

What is Research Data?

- Experimental
 - Data gathered through experiments where researchers control variables
- Observational
 - Data gathered from observations
- Individual data
 - Data from/about an individual person or location
- Generalized data
 - Aggregated, anonymized data

What is Research Data?

- 3D models and printable files
- Accreditation reports
- Archival university papers
- Artistry and performance materials
- Audio
- Books
- Computer code & scripts
- Conference proceedings
- Course catalogs
- Datasets
- Designs & blueprints
- Digital journals
- Dissertations
- Documentation
- GIS files
- Grant proposals
- “Grey” literature
- Historical documents
- Images
- Interviews
- Journals
- Lab notebooks
- Learning materials
- Lecture transcriptions
- Maps
- Methodologies & Workflows
- MOOCs
- Newsletters
- Oral History
- Physical artifacts and specimens
- Point clouds
- Posters
- Presentations
- Seismic recordings
- Software
- Spreadsheets / CSV files
- Surveys
- Technical reports
- Teaching tools designed by faculty
- Theses
- Transcripts
- Video
- Visualizations
- Websites
- White papers

What is Research Data?



Data Management



What is Data Management?

- Data management refers to everything researchers do as they create, collect, describe, store, and work with data generated by their research.
 - (Not including data analysis.)

Basically, it's stopping people from doing this.

Data Management

- File formats
- File names
- Cleaning & curation
- Documentation (README files, etc.)
- Policies & licenses
- Data publishing & preservation
- Ethics & Privacy

Research Computing



Research Computing

- Large-scale computing resources
- Storage of research data
- High-speed data transfer
- Data sharing support
- Consulting in computational science and data management

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