

University of San Diego

## Digital USD

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Digital Initiatives Symposium

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Apr 30th, 1:20 PM - 2:05 PM

### After the literature review and before the manuscript - supporting the middle of the research lifecycle with data, GIS, and digital scholarship services

Annelise Sklar

University of California - San Diego, [asklar@ucsd.edu](mailto:asklar@ucsd.edu)

Stephanie Labou

University of California - San Diego, [slabou@UCSD.EDU](mailto:slabou@UCSD.EDU)

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## After the literature review and before the manuscript - supporting the middle of the research lifecycle with data, GIS, and digital scholarship services

### Presenter 1 Title

Interim Program Director, Research Advisory Services

### Presenter 2 Title

Data Science Librarian

### Session Type

45-minute concurrent session

### Abstract

Traditional library advisory services focus on the beginning and end of the research lifecycle, but what about students and researchers who need help with the steps in the middle? This talk will highlight UC San Diego's public service support for data collection, management, analysis, and visualization. In particular, we will highlight our Data & GIS Lab; Digital Media Lab; Digital Scholarship services, including KNIT, our digital commons; Software/Data Carpentry and other workshops; and consultation services for students and researchers.

### Location

KIPJ Room D

### Keywords

Digital scholarship, Data, GIS, Library computer labs, Consultation services, Workshops, Software, Carpentries, Collaboration

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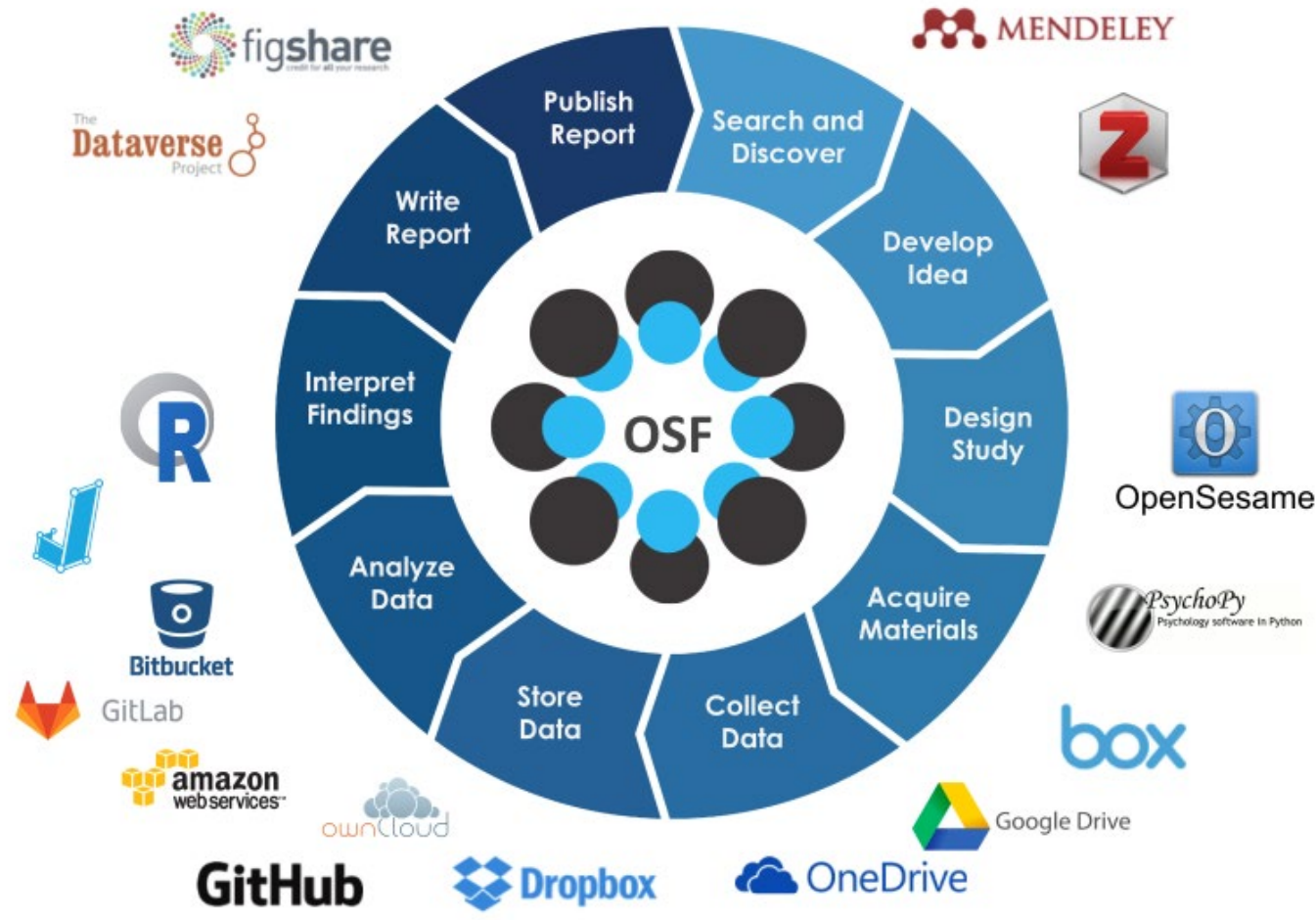
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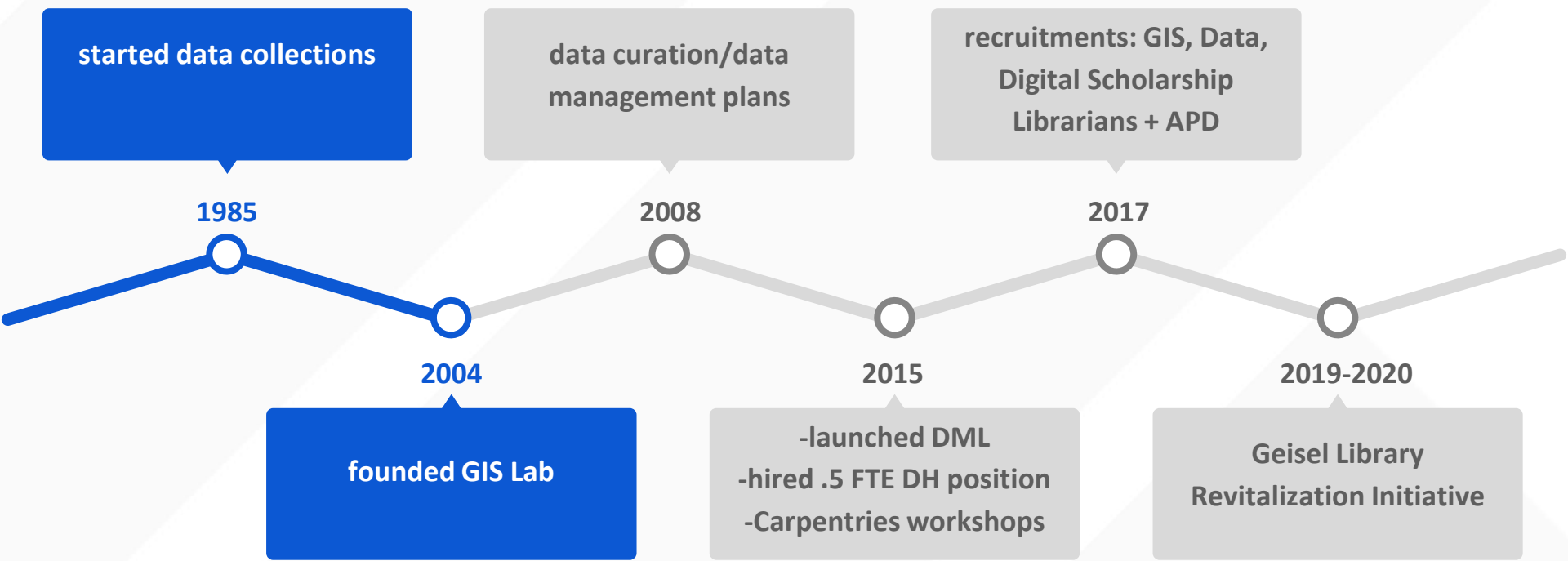


**After the literature review and  
before the manuscript:**  
**supporting the middle of the  
research lifecycle with data, GIS,  
and digital scholarship services**

Digital Initiatives Symposium  
April 30, 2019  
*Annelise Sklar & Stephanie Labou*  
*UC San Diego*







# Currently we provide...a lot!

- Consultations
- Course-integrated instruction
- Stand-alone workshops (both teaching and hosting), including the Carpentries
- Coordinating (with) research groups/communities of practice
- Events
- Acquisition/management of all formats of data and software for analysis
- Curation of data created by researchers, including students
- Specialized technology and software including KNIT, the digital research commons
- Technical support for the specialized technology and software
- Access to tutorials, guides, and manuals
- Libguides



# Digital Media Lab

- Space for media creation and editing open to all students, faculty, staff
- Free 3D printing, video editing, image manipulation, sound editing, media-rich website creation.
- Equipment
  - 3D printers
  - VR Headsets
  - 5k iMacs and VR-ready Windows PCs
  - High-end scanners
- Projects
  - 3D printed sea turtle shell brace
  - VR reconstruction of archeological sites





# Data & GIS Lab

- Is your laptop not sufficient?  
Come use the lab!
- 5 fixed computers + 10 laptops
- Statistical and geospatial software, such as ArcGIS, R, Python, Stata, SPSS, SAS, and more.
- Datasets with tighter restrictions + all geospatial datasets
- Student assistants - first line of technical support + referrals







# Geospatial information systems (GIS) support

- Tool recommendations for data collection or finding, analysis, visualization
- Troubleshooting technical issues
- Hardware and software infrastructure
  - ArcGIS campus license + software distribution
  - Exploring open source options
- Data finding and access
  - Transitioning from a central GIS data storage structure (Data & GIS Lab) to one where data is accessible from anywhere
  - Collaborating with UC partners - managing IT backend



# Broader data services

- Focusing on student consultations
- Scenario 1: Finding data
  - “I’m looking for data about X and Y”
  - Navigate library databases, open datasets, purchasing data
  - How we help
    - LibGuide for finding data & statistics
    - Consultations

LIBRARY » LIBGUIDES » FINDING DATA & STATISTICS » HOME

## Finding Data & Statistics: Home

[Home](#)[What is Data?](#)[Frequently Used Statistics](#)[Frequently Used Data](#)[Find Data by Topic](#) ▾[Data APIs](#)[Text Data](#) ▾[Statistical Analysis Software](#) ▾[Data Visualization](#) ↗



# Data services

- Scenario 2: Questions about using data in compute-heavy ways
  - Opening high dimension data formats in domain-specific software
  - Reading in and formatting data in R/Python
  - Natural language process (Twitter)
  - Access to additional resources for large (TB) datasets

**Much of this can be addressed through ongoing training!**

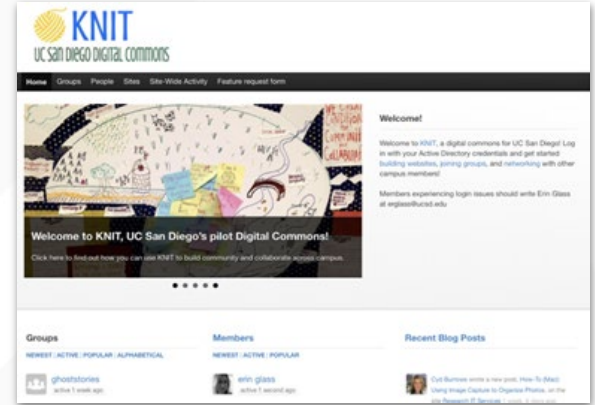
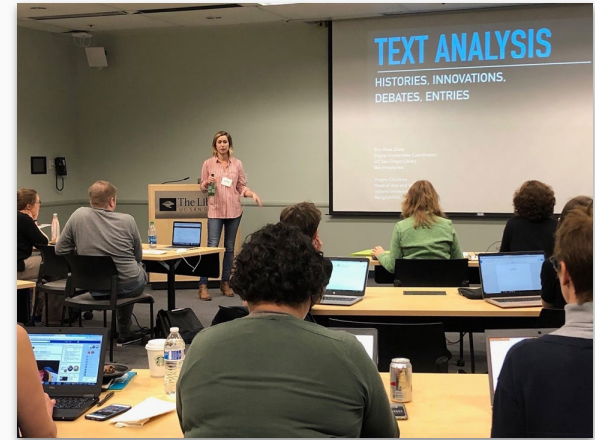
# Training initiatives



- Focused on **Software and Data Carpentry** workshops
- Run by Research Data Curation Program
- Joint funding from campus partners to become an affiliate member to increase instructor capacity
- Community is key!
- Potential for expanding to the greater regional area including international partnerships

# Digital scholarship

- Support for implementing digital scholarship methods and tools in research and teaching
  - digital publishing, digital exhibitions, networked writing, website building, and the public humanities.
- Sample projects and activities:
  - Graduate student digital humanities research group
  - Digital workshops (text mining the student newspapers, machine learning + text generation)
  - KNIT, a digital commons
  - Digital scholarship/ethics/literacy lectures in classes across disciplines





# Partners: subject librarians

- Disciplinary liaisons typically take the lead on outreach and promotion
- Joint ventures
  - Workshops for grad students (Psychology, Linguistics)
  - Course-integrated workshops (Health, Political Science, Economics, Urban Studies, Oceanography, History, Communication, Ethnic Studies)
  - Building collections of data (numeric, geospatial, textual, etc.)
- Pain points
  - Service around high touch digital projects/digital exhibits – one faculty research project touched seven different subject and functional librarians!
  - Referrals/handoffs
- Joint annual goal – how to work together better, especially through referrals

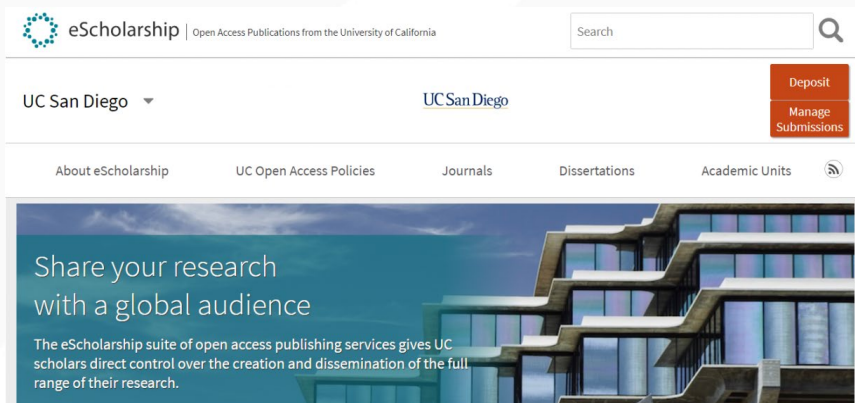


# Partners: library IT services

- Control funding for equipment and software, including web-based tools
  - Anything that we need to propose to Admin needs buy-in from ITS first
- Computer, software, and infrastructure maintenance
  - If they don't want to support the tool, it dies the first time it breaks
- Desire from both teams shifting us towards a **collaborative model**, where IT can provide insight into the technical components of research projects.
  - These insights are deeper than functional capacity.

# Even more partners!

- Scholarly Communications Librarian
  - Birds of a feather, especially around non-traditional publishing, author rights + ethical reuse
- Digital Library Development Program
  - Collections as data
  - Preservation of user created digital projects



The screenshot shows the eScholarship website. At the top left is the eScholarship logo with the text "Open Access Publications from the University of California". To the right is a search bar. Below the logo, there are navigation links for "UC San Diego" and "UC San Diego" with a dropdown arrow. On the right side, there are buttons for "Deposit", "Manage Submissions", and "Academic Units". A banner at the bottom features the text "Share your research with a global audience" and "The eScholarship suite of open access publishing services gives UC scholars direct control over the creation and dissemination of the full range of their research."



The screenshot shows the UC San Diego Library Digital Collections website. The header includes "LIBRARY DIGITAL COLLECTIONS" and "UC San Diego". Below the header is a navigation menu with links for "Home", "About", "Browse By", "Help", "Sign In", and "The Library". The main content area features a large graphic of three stylized faces in profile, with the text "DIGITAL COLLECTIONS" overlaid. Below the graphic is a search bar with the text "Search..." and a magnifying glass icon. At the bottom, there is a link that says "Or browse by Collection, Creator, Format, or Topic".



# Admin is supportive, funding is finite

- Generally supportive of initiatives with an ARL push or other national-level institutional support
- Funding requests approved based on evidence of need – requests for budget call, priorities from Program Directors and campus partners
  - Positions, equipment, continuing costs, space
  - In the process of planning remodel that will include new digital scholarship space
- High level conversations with campus partners & campus planning
  - Still trying to figure out how we fit with campus ITS (ETS, RIT), SDSC, HDSI, IAH
  - Who does what and when do we partner?

# Campus context

- Librarians are academics but not faculty, and we can't be instructors of record.
- The Geisel Library building is already constantly full of students studying.
- The campus has other computer labs, makerspaces, storage solutions, etc., but **only we have the mission to support everyone.**
- The Library is seen as disciplinarily agnostic.



# Ongoing questions

- What should we call our “Digital Scholarship” team and space? (Especially as we also have a Digital Scholarship Librarian.)
- How do we provide an inviting “hub” space but only for people doing the work this space was intended for?
  - We're currently trying to figure out how to make our current Data & GIS Lab *less* appealing to study groups who like our empty tables and whiteboards.
- How do we brand our services and our space without overshadowing the larger Library brand?
- How do we present our services on the web without it being a huge, overwhelming list of links and email addresses?
- What events are worth our time and effort?

**Thank you!**

**Questions?**