UCSF Library Support for Data Management and the New NIH DMS Policy

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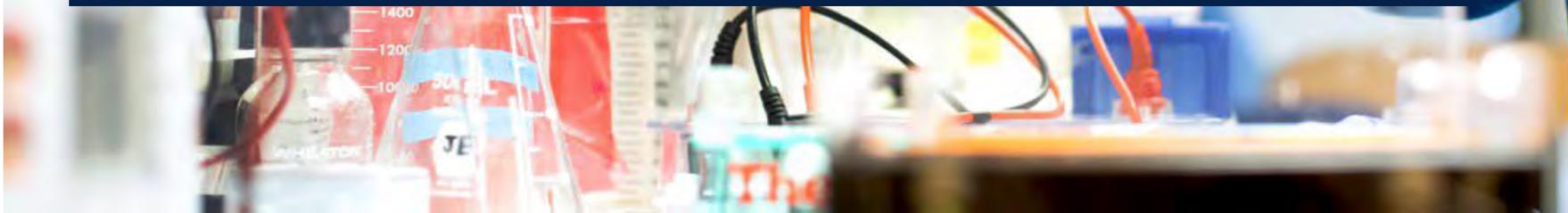
UCSF Campus

- Located in San Francisco, CA
- Research-intensive, graduate-only health sciences university
- #1 public recipient of NIH funds

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UCSF Library Data Science Team

- Build **foundational skills** in programming, statistics & bioinformatics, data engineering, and data management

- Serve as a **campus hub** for education and support for data science

- Goal is to **empower researchers** to do innovative & reproducible data-driven science

Geoffrey Boushey

Geoffrey teaches and consults on programming for data management and analysis, with an emphasis on Python, Unix, and SQL.

BOOK CONSULTATION

Ariel Deardorff

Ariel has worked as a librarian in academia, healthcare, and the NIH. She teaches and consults on data management and organization for reproducibility.

BOOK CONSULTATION

Fred Jiang

Fred is a student teaching assistant with the Data Science Initiative.

CONTACT FRED

Albert Lee

Albert is an instructional designer and analyst. He teaches and consults on programming for data management and analysis with R, Python, and AI applications.

BOOK CONSULTATION

James Lim

James is a student teaching assistant with the Data Science Initiative.

CONTACT JAMES

Karla Lindquist, PhD

Dr. Lindquist has expertise in statistics and bioinformatics. Please contact us if you are looking for training or support in these areas.

CONTACT KARLA
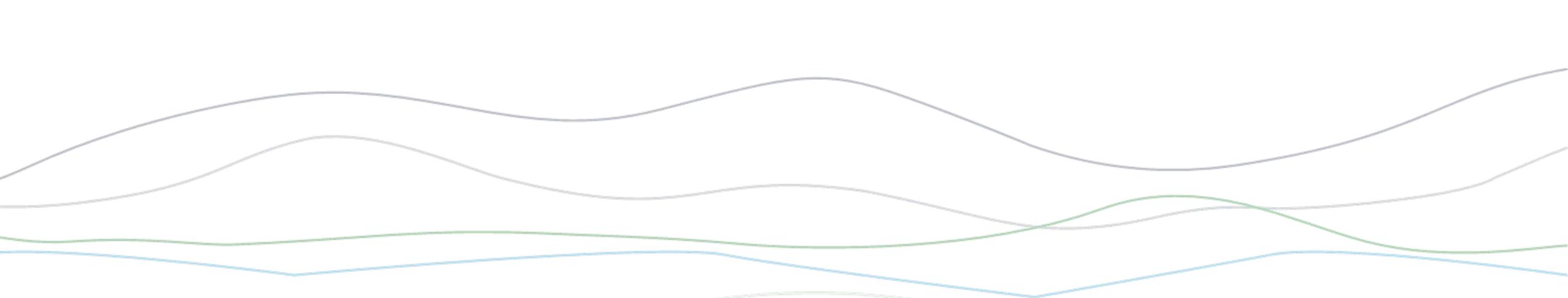
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Preparing for the Policy

Implications of the new Policy for UCSF

- Data sharing is a new practice for many of our researchers. We knew they would have questions about:
  - Selecting a data repository
  - Understanding what metadata standards might be relevant
  - Preparing data for sharing
- There is a potential misalignment between NIH Data Sharing Policy and our existing campus data sharing guidance.

We needed to work behind the scenes

- UCSF Library & UCSF Office of Sponsored Research convened a stakeholder leadership group.
  - Included faculty and research administration
- Goals of the group:
  - Bring together key UCSF stakeholders to prepare for compliance with the new policy
  - Update our local policies to align with the new NIH requirements
  - Develop tools and guidance, communications and outreach plans
  - Educate/train researchers and administrators
  - Modify as necessary based on NIH implementation

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Major outcomes of the stakeholder group
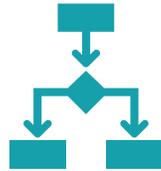
New process for approving de-identified data sharing

Policy guidance and resources

Outreach and training

Grants management – control points for monitoring proposals

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How we support our researchers

We focus on data management throughout the life of a research project

Project Planning and Grant Writing

→

Data Collection and Analysis

→

Publishing and Sharing Results

- Writing data management plans
- Finding + accessing data for research

- Active data storage
- Data organization and versioning

- Data preparation and curation
- Data sharing in repositories

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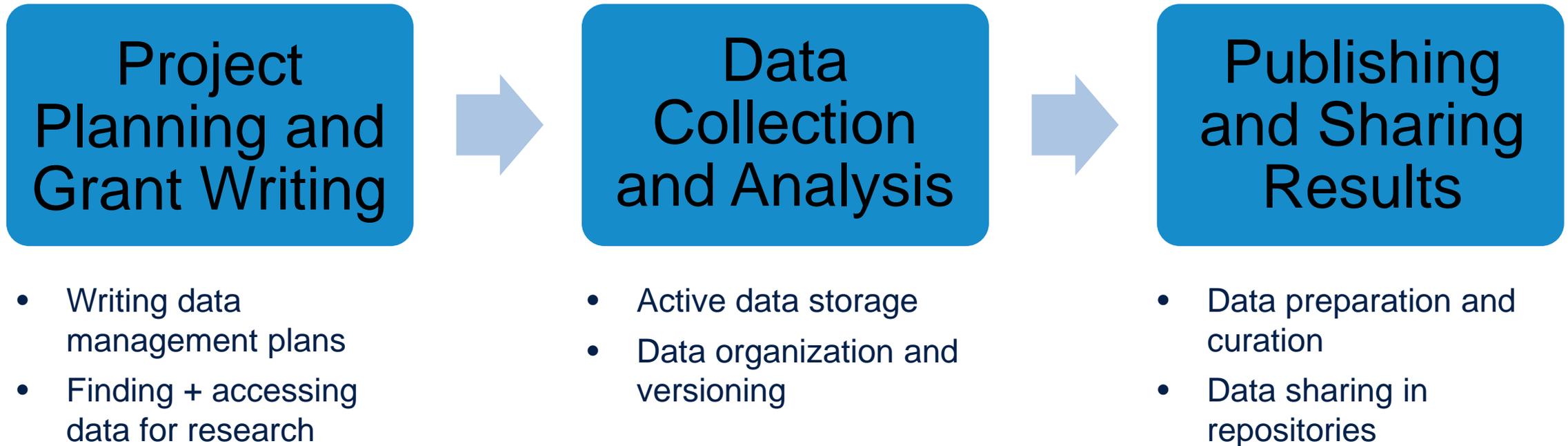
We provide support in a variety of modes

Resources and Guidance

Education and Outreach

1:1 Consultations

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Resources and Guidance

- Our goal is to translate policy language into **easy step-by-step guidance.**

- This often requires a lot of behind-the-scenes coordinating with other departments to align our messages + connect researchers to the right office.

- Some examples include:

  - [Campus resource page for the new NIH DMS Policy](#) - Links to UCSF DMS Plan templates, examples, and FAQs

  - [Guide to Reproducible Data Management](#) - Advice on finding, organizing, storing, and sharing research data

  - [De-identified Data Sharing Guidance](#) - Step-by-step guide to sharing de-identified data in repositories

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Education and Outreach

- **Training + Education**
  - Monthly virtual workshops on data management and the new NIH Policy
  - Responsible Conduct of Research data management sessions for graduate students and postdocs
  - Customized in-depth trainings and workshops
    - Sharing Qualitative Data (co-hosted with the IRB)
    - Understanding NIH institute data sharing requirements (especially for NIMH)
    - Data sharing for sensitive research
- **NIH DMS Policy Outreach efforts**
  - Monthly news items in the Library newsletter and UCSF-wide monthly research office email
  - Presentations at 40+ faculty and departmental meetings and grand rounds

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1:1 Consultations

- For more hands-on support and deeper dives

- Frequent topics:
  - Selecting a repository and understanding costs
  - Finding a relevant metadata standard

- Often includes referrals to other team members (hands-on data science support) or other groups on campus:
  - Understanding informed consent (refer to IRB suggested language)
  - Signing data use agreements (refer to Industry Contracts)

We build connections across campus

- We don't always know the answer, but we generally know who does.
- Our goal is to help researchers navigate the research bureaucracy at UCSF.
- We work closely with:
  - Institutional Review Board (IRB)
  - Clinical and Translational Science Institute (CTSI)
  - Compliance Office
  - Privacy Office
  - Research IT
  - Grants Office

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Knowledge gaps and how librarians can help

- We are seeing researchers struggle with:
  - Understanding NIH DMS Policy requirements
  - Selecting an appropriate data repository
  - Understanding costs and work and time associated with data management
- Researchers should check with their local data librarian to see:
  - Is there DMS Policy guidance from your library?
  - Do they provide hands-on data curation and preparation support?
  - Can you meet with a librarian to ask questions about your plan?

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