UNC | CENTER FOR FACULTY EXCELLENCE

Introduction to Research Support at Carolina

CFE Faculty Foundations 2021

Darin Knapp, Center for Faculty Excellence
Nathan Blouin, Office of Research Development
Amanda Chang, Office of Sponsored Research
Rocky Riviella, Odum Institute
Susan Pusek, NCTraCS
Jacqueline Solis, UNC Libraries

Objectives

- To describe research development resources available to UNC faculty (e.g., proposal development, grant administration, electronic/digital support, data management)

- To identify who to contact for specific needs and questions related to research development

Why UNC's Strategic Focus on Research?

- Economic impact
- Social impact
- Environmental impact
- Cultural impact
- Health impact
- Educational impact

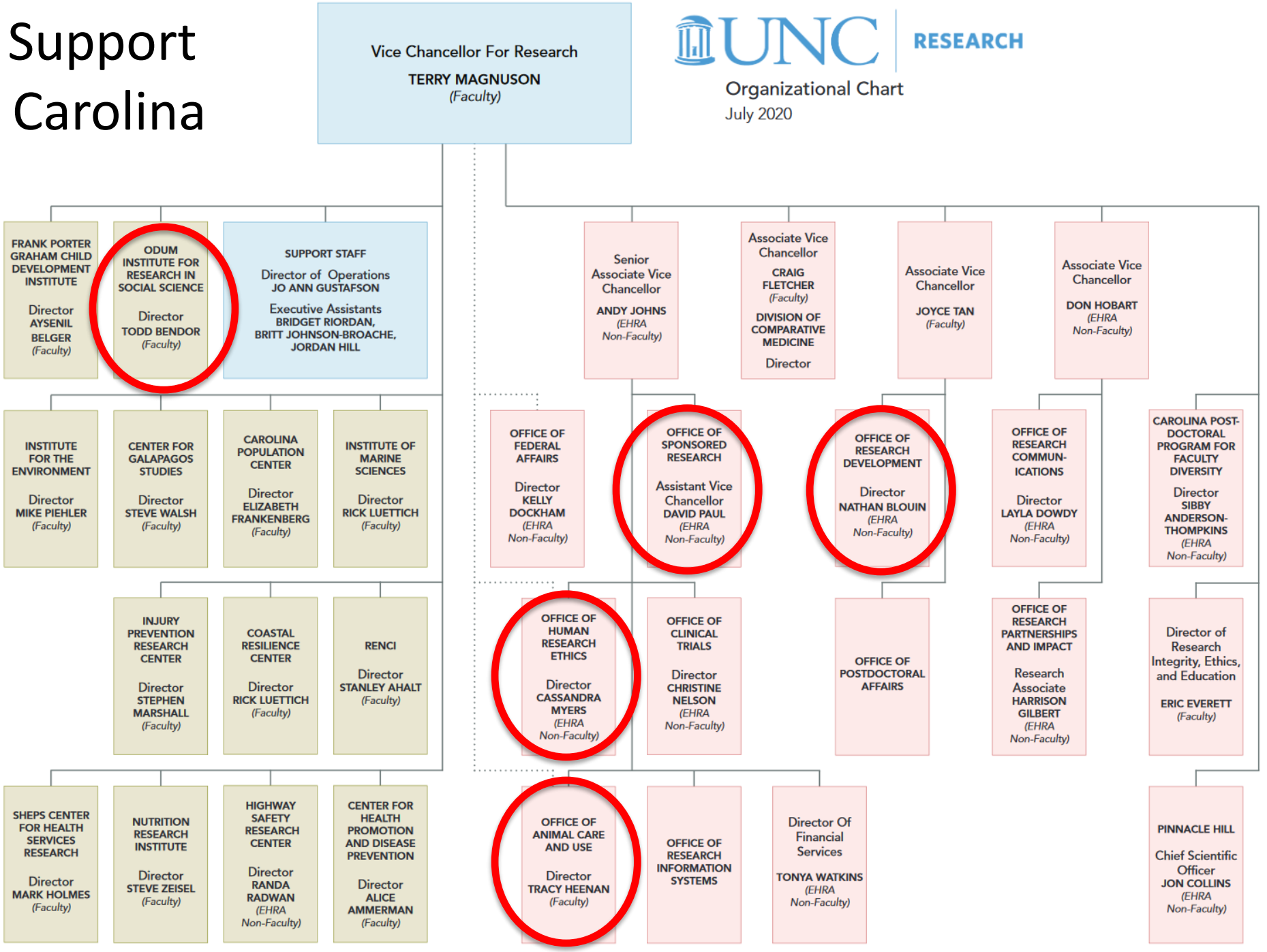
Culture of Research

A culture of research provides a supportive context in which research is

- Expected
- Discussed
- Produced
- Valued

Andrew Cheetham, Pro Vice-Chancellor (Research),
University of Western Sydney, Australia

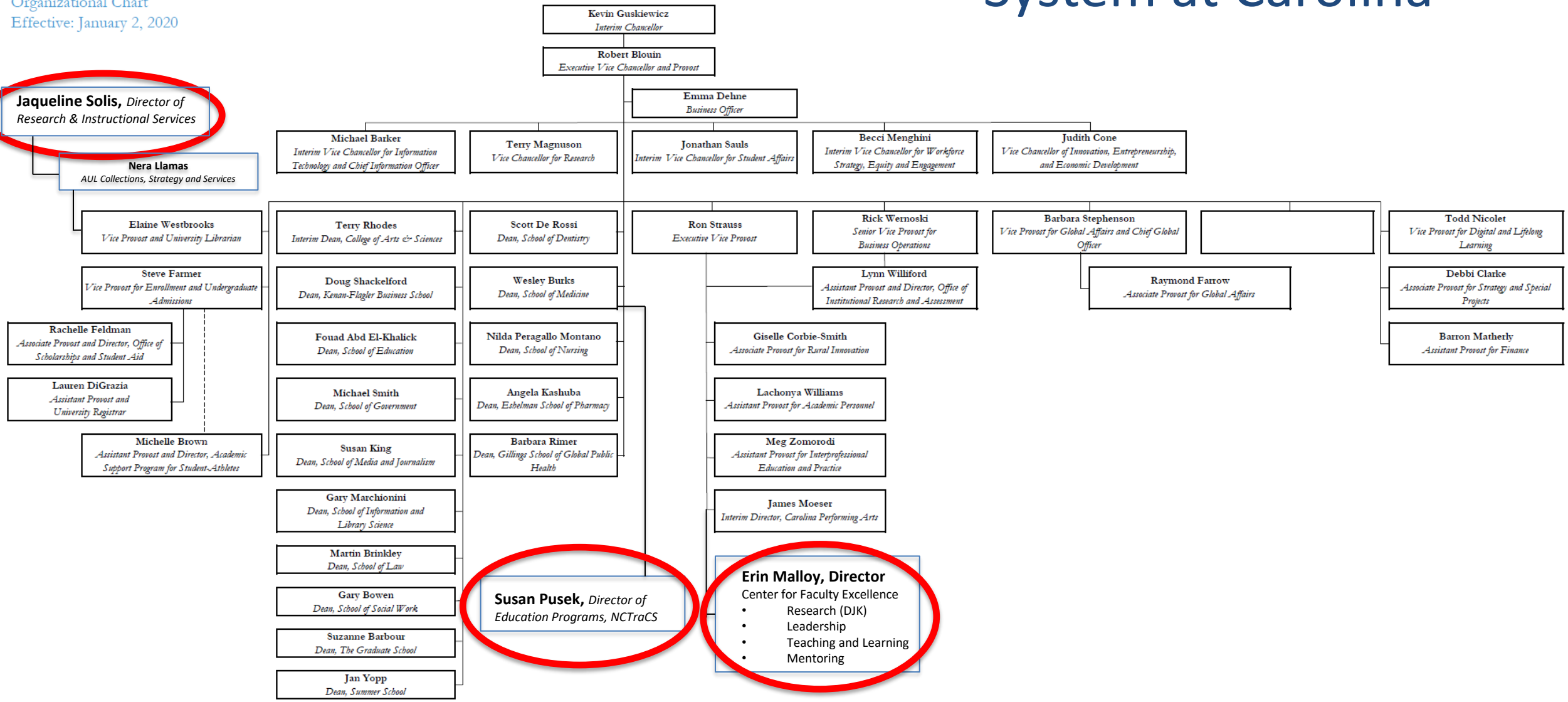
Research Support System at Carolina



Research Support System at Carolina

OFFICE OF THE EXECUTIVE VICE CHANCELLOR AND PROVOST

Organizational Chart
Effective: January 2, 2020



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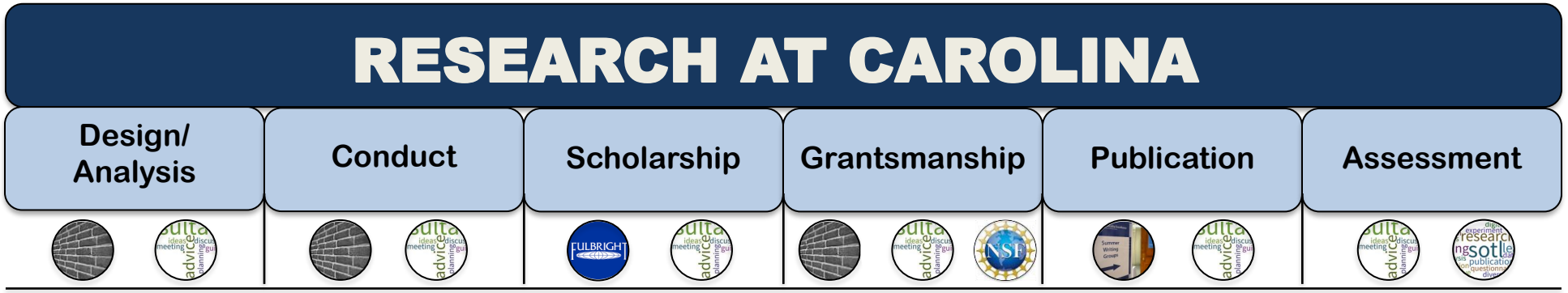
CFE Research & Writing Support for Faculty



Research Foundations Workshops

Fulbright Scholars Support

SWG

NSF CAREER Writing Series

SoTL Learning Community

Research/Writing Consultations

Contact me with your thoughts about research programming needs.

Darin Knapp

darin_knapp@med.unc.edu

UNC | RESEARCH

RESEARCH DEVELOPMENT

at the University of North Carolina at Chapel Hill

Spring 2021 Update

ORD'S MISSION

GROWING *the* RESEARCH ENTERPRISE *at* CAROLINA

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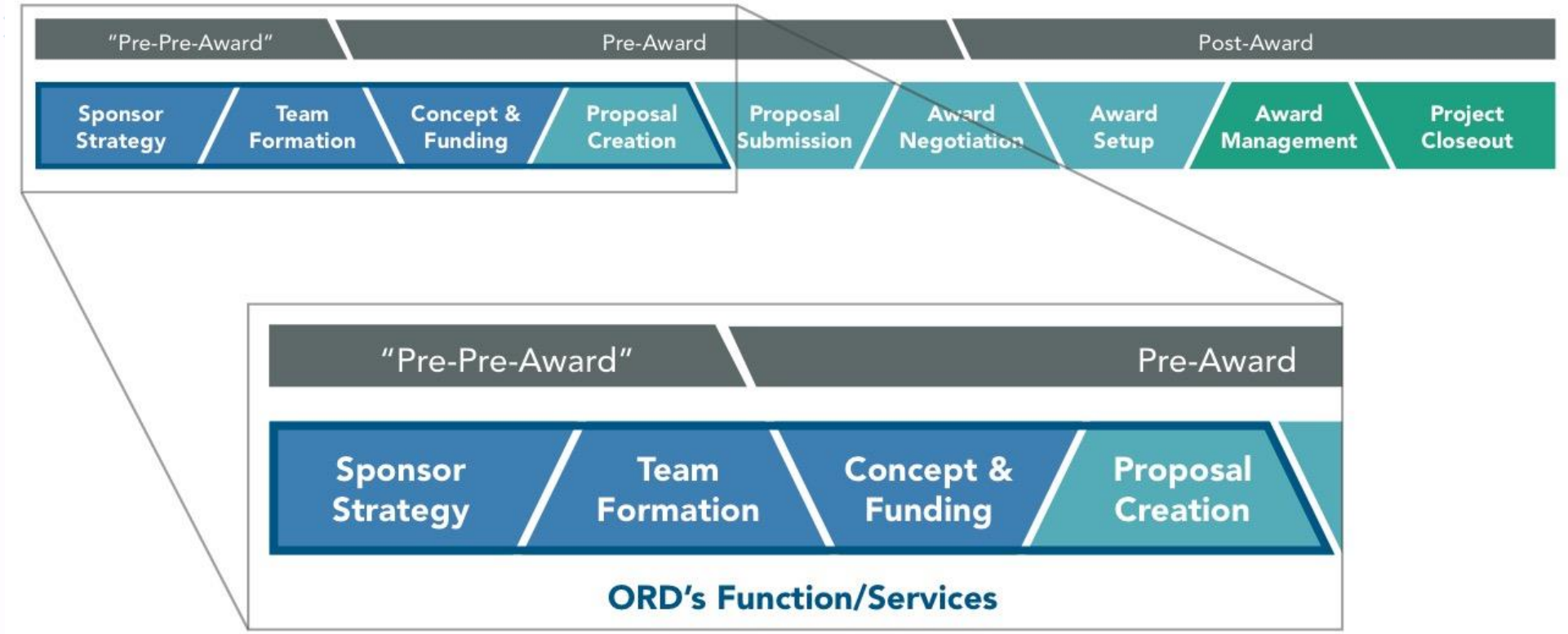
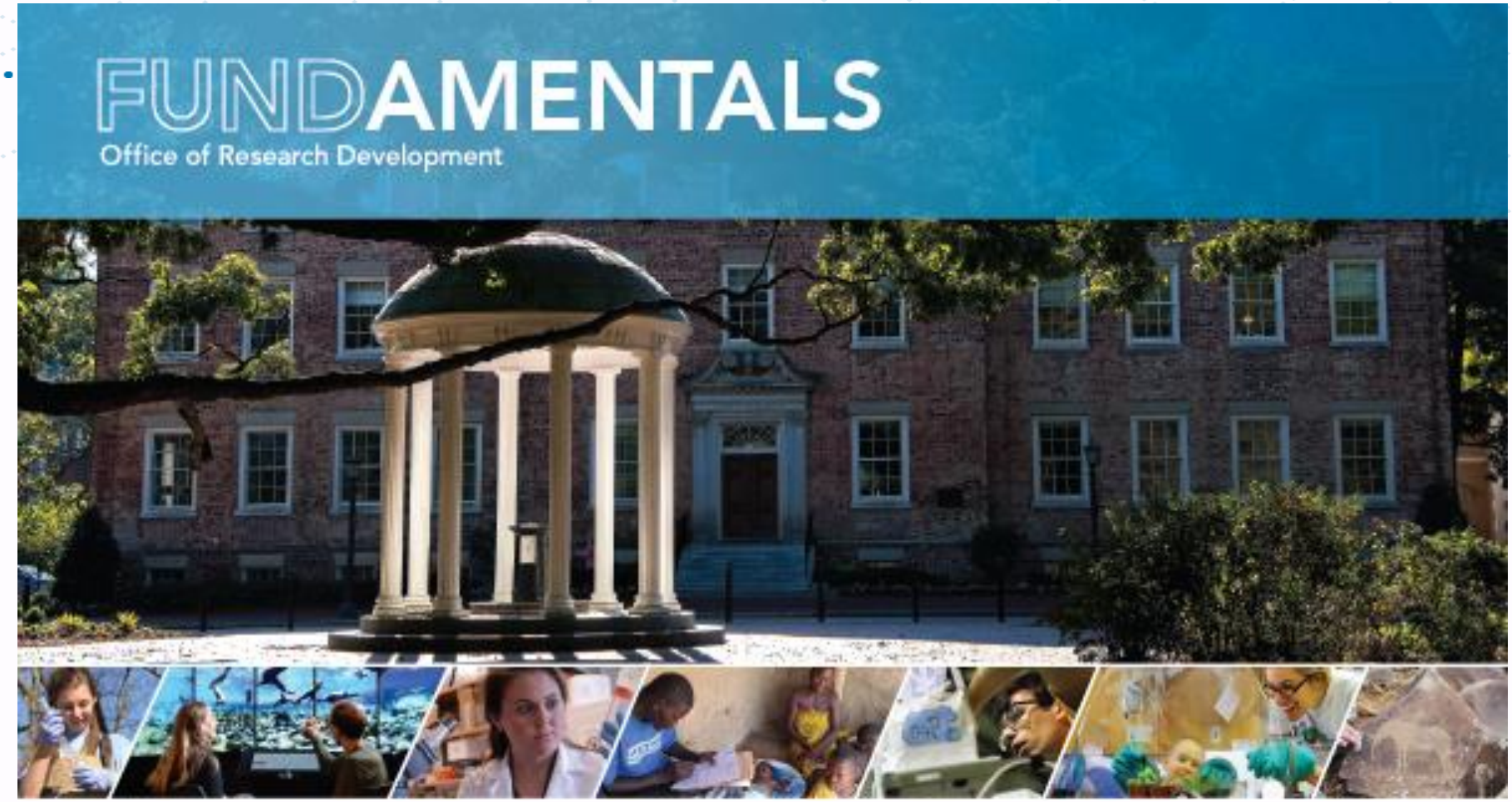
WHAT IS RESEARCH DEVELOPMENT?



ORD – Programmatic Updates

1. FUNDamentals
2. Limited Submissions and Awards Management System
3. Large and Complex Proposal Development Support



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This monthly newsletter provides researchers with updates related to extramural funding, on-campus research development and other timely information in support of Carolina's research enterprise

Contents:

- Reminder: 2021 Arts & Humanities Grant Program
- Reminder: Publication Grants
- Tips, Tools, and Training
- Meetings from Around Campus
- Early Notice - NIH Concept Clearances and NSF Dear Colleague Letters
- Limited Submission & Award Opportunities
- Research Development for Postdocs
- News you can use
- Interest Survey
- ORD Consultations

*Early Notice - *New* NIH Concept Clearances and NSF Dear Colleague Letters*

NIH Institute Councils meet three times a year. The public-access portion of these council meetings includes the presentation of concepts to be cleared by the Council for writing into a funding announcement. Thus, ***concept clearances*** *are the earliest notice of NIH interest in a new topic format.*

NIH Institutes held council meetings last month and through February. Some have posted their meeting minutes and accompanying concept clearances; others have either not yet met or have met but not posted meetings. Click here for comprehensive Committee Meeting Schedules. Below are titles of approved concepts:

CC - Council met 1/29; Minutes not yet available but several concepts were on the agenda with full presentations at the link:

- Common Fund Concept Clearance: Illuminating the Druggable Genome (IDG) - Cutting Edge Informatics Tools FOA (reissue)
- Common Fund Concept Clearance: Stimulating Peripheral Activity to Relieve Conditions (SPARC) Stage 2
- OBSSR Concept Clearance: Reissue R25 Short Courses on Innovative Methodologies and Approaches in the Behavioral and Social Sciences
- NIH Concept Clearance: Firearm Injury and Mortality Prevention Research

NIA - Approved concepts this round

- Data enhancements and analyses to clarify the relationship between education and cognitive function [including Alzheimer's disease/Alzheimer's disease related dementias (AD/ADRD) and dementia]
- Data management coordinating center (DMCC) and a collaborative research space for translational research on exceptional longevity (EL)

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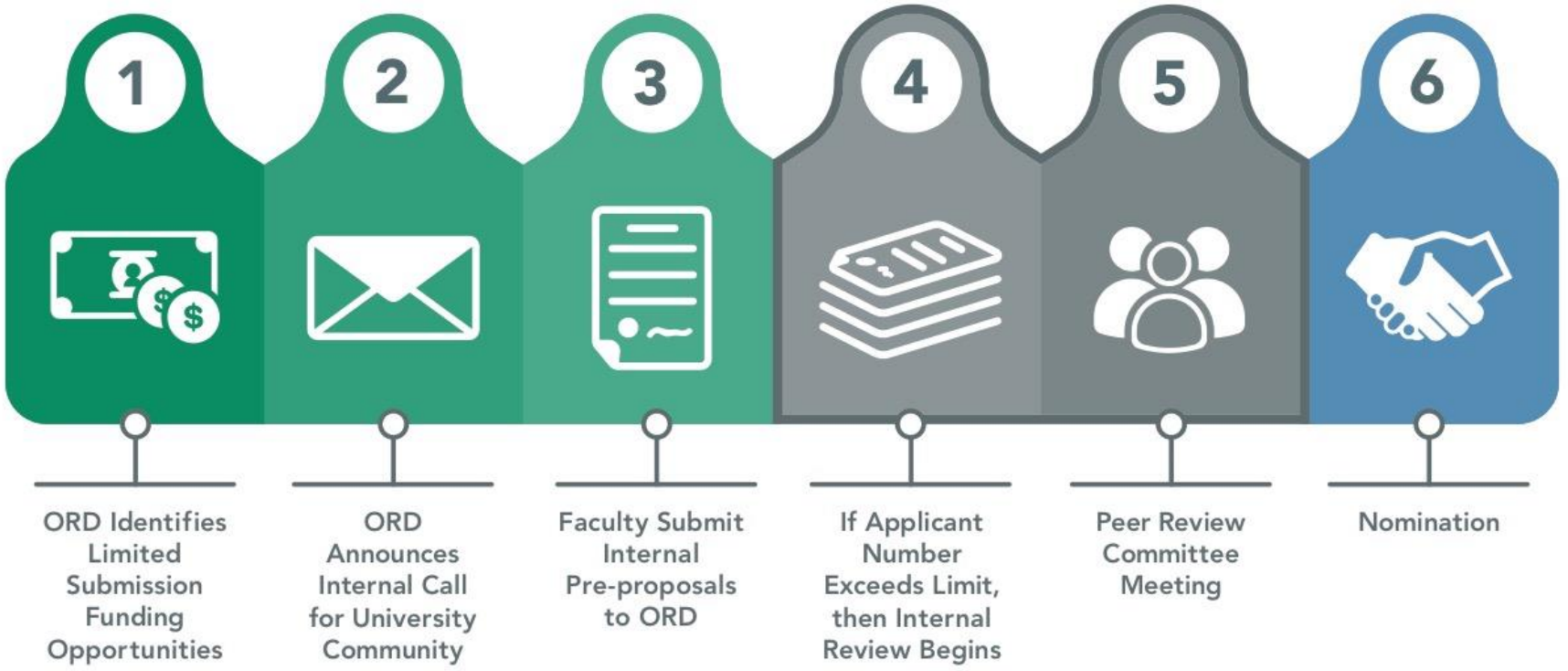
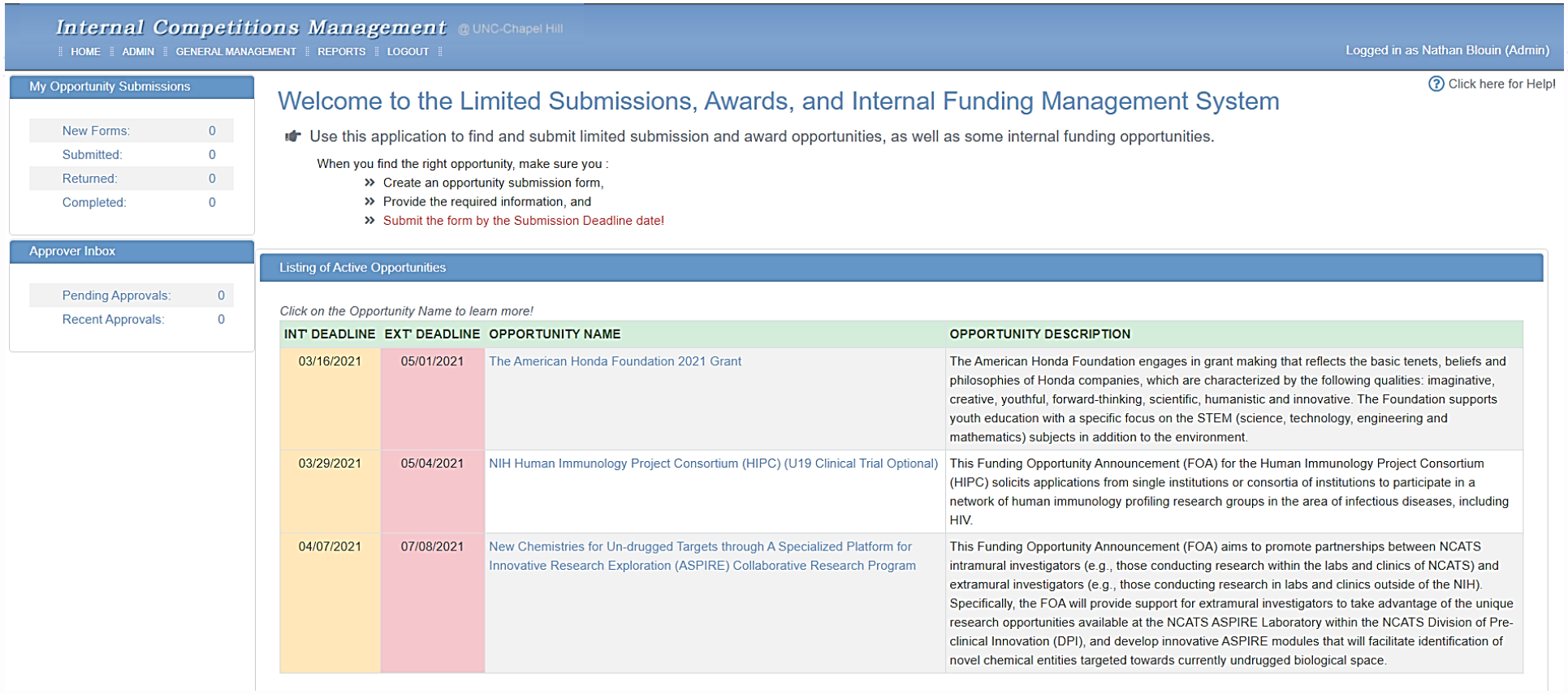
UNC UNIVERSITY LIMITED SUBMISSIONS PROCESS FLOW CHART



Questions? Email Limited_Submissions@unc.edu

RESEARCH

New
Limited Submissions Management System



Documentation and User Guides

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Large and Complex Proposal Support

Proposal Development Tracks

Strategy and support from ideation through re-submission

Idea to a Plan

Start with an inkling. End with a plan. This plan includes a one-page summary, resource list, and target funding source or funding search set up.

Resource and Team Development

Start with a one-page summary or other well-developed idea and target funding source. End with a project development plan that leverages UNC internal or external resources.

Project Management Structure for PI-directed Project

Start with a project summary and funding source identified. End with a toolkit and plan for preparing and submitting the proposal with minimal support from ORD.

Full-Service Proposal Support

Start with a project summary, funding opportunity identified, and resources identified. End with a complete, compliant, and strategic proposal. Open to large-scale ($1,000,000+ and/or multi-PI) proposals, limited submission/award winners, and ORD major internal funding winners.

Proposal Optimization

Start with a complete, pre-submission proposal or re-submission. End with a better shot at funding.

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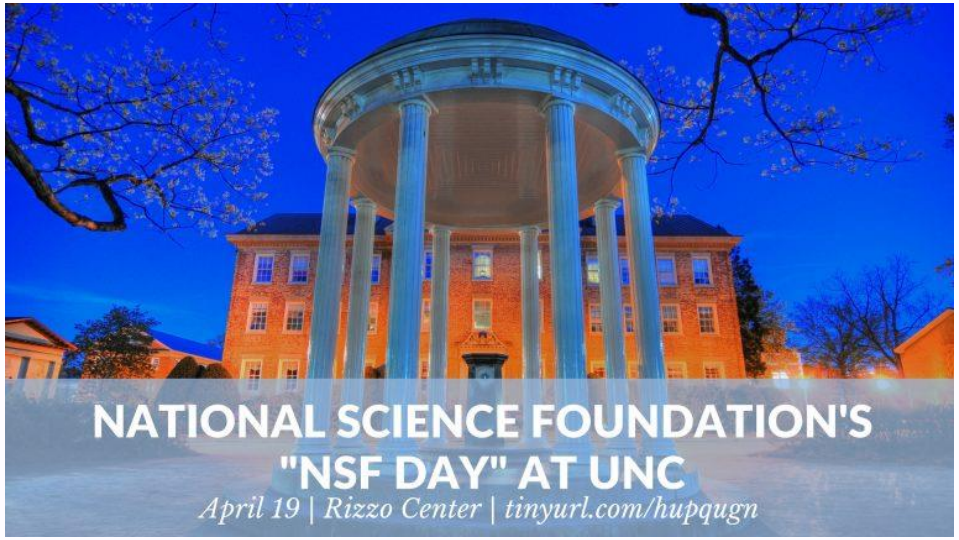
ORD Internal Development: In the Pipeline:

1. Website update/upgrade
2. Communication strategy overhaul
3. Growing intramural and extramural connections
4. Expanding services with equity in mind
    1. Tips, tools, and training sessions
    2. Open office hours

ENGAGING WITH PARTNERS

Promoting UNC's relationship with federal funding sponsors



Jonathan Hollander, Ph.D.

NIH National Institute of Environmental Health Sciences
Your Environment. Your Health.

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ENGAGING WITH PARTNERS

Coordinate with partner UNC system and other NC campuses to facilitate connections.

INFEWS

North Carolina Agricultural and Technical State University

The University of North Carolina at Chapel Hill

Duke University

NC State University

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QUESTIONS?

Contact:

research.unc.edu/research-development

ord@unc.edu

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Introduction to Research at Carolina

Office of Sponsored Research (OSR)

Amanda Chang – Director of Operations

August 9/10, 2021

UNC RESEARCH

Outline

- Overview of Office of Sponsored Research
  - Research Administration Services
  - Sponsored Projects Accounting Services
  - Other Services
- Resources

OSR Business Units

PROPOSAL
- Review
- Submission

AWARD
- Negotiation
- Set-Up
- Management

FINANCIAL
- Cash Mgmt
- Billing
- Reporting

AWARD
- Closeout

COMPLIANCE
- Effort Reporting
- Pre/Post Audit

COSTING
- F&A Rates
- Recharge Centers

SUPPORT
- ResAdminOSR
- OSRBilling
- Website
- Communication
- Training

https://research.unc.edu/sponsored-research/about/business-units/

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Research Administration (RA): Teams

Teams 1-6 support assigned Dept; Sponsored Projects Specialists:

- Proposal Review & Submission
- Award Negotiation, Compliance Review, Risk Analysis, Award Acceptance, and Set-up
- Post-Award Administration
  - Award Modifications – No Cost Extensions, PI Changes
  - Prior Approval Requests
  - Budget Revisions

https://research.unc.edu/sponsored-research/about/business-units/3443

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RA: Contracting (Industry)

Contract Managers for both clinical and non-clinical

- PI Initiated
- Subsite Agreements
- Industry Standard Research Agreements
- Data Use Agreements
- Confidentiality Agreements
- Core Recharge Agreements
- Master Agreements
- Industry Clinical Trials

https://research.unc.edu/oic/new-agreements/

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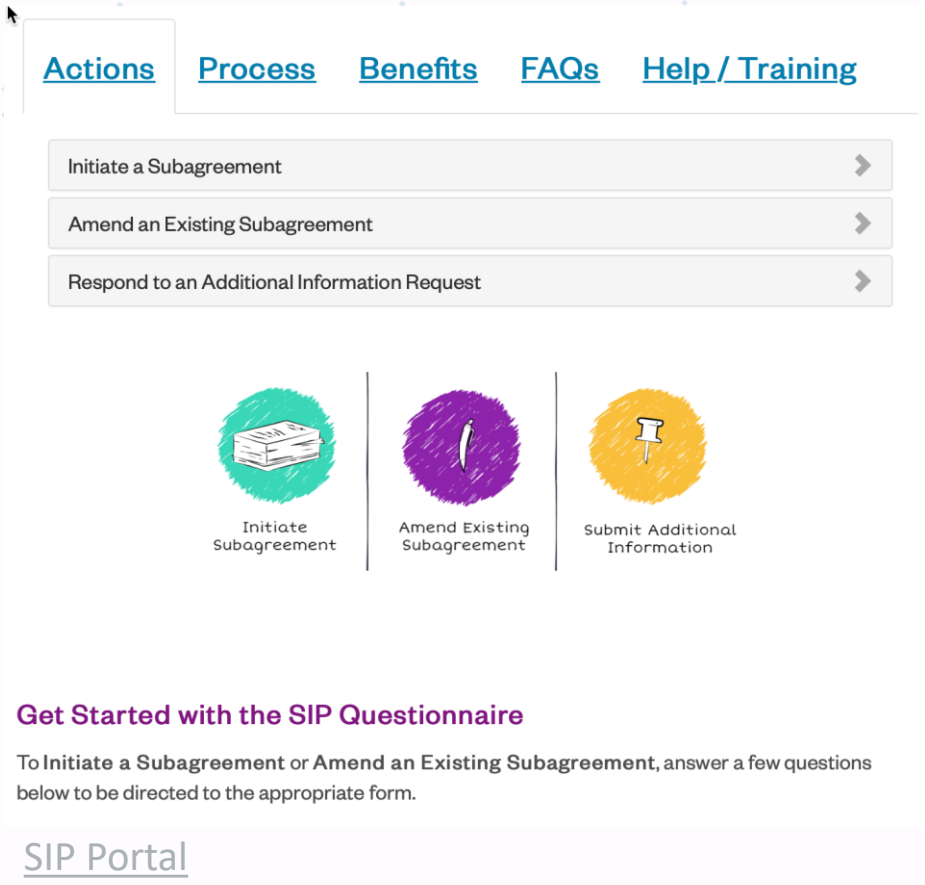
RA: Contracting (Subwards)

Outgoing Subaward Team

- Documentation and Drafting
- Subrecipient Risk Analysis
- Agreement Negotiation and Execution



https://research.unc.edu/sponsored-research/about/business-units/3443

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Sponsored Projects Accounting

- Data Management: Enters awards into Research Systems
- Billing / Invoicing
- Financial Reporting
- Cash Management: Accounts Receivable, Collections
- Closeout Management

https://research.unc.edu/sponsored-research/about/business-units/

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Cost Analysis and Compliance

- Effort Reporting
- F&A Cost Analysis
- Research Service Center Rate Support
- Supports both internal/external Audits
- Subrecipient monitoring in conjunction with RA Subaward Team

Operations

- Manage intake for all general email inboxes
  - ResAdminOSR@unc.edu: all proposal/award requests
  - OSRBilling@unc.edu: billing/invoicing, financial reporting
  - OSRReporting@unc.edu: final invention statements
- ServiceNow support for research financial systems
- Training and Communications
- Annual Symposium for Research Administrators

Resources

Office of Sponsored Research Website:

- Award Lifecycle
- Information Sheet
- Roles & Responsibilities Matrix
- Science & Security Guidance
- COVID-19 Guidance
- Frequently Asked Questions

Questions? Email - OSRCommunications@unc.edu

UNC RESEARCH

Data Management and Archiving, Scientific Reproducibility, and Open Science at the Odum Institute for Research in Social Science

Rocky L. Riviella ▪ Managing Director | (riviella@email.unc.edu)

UNC | ODUM INSTITUTE FOR RESEARCH IN SOCIAL SCIENCE

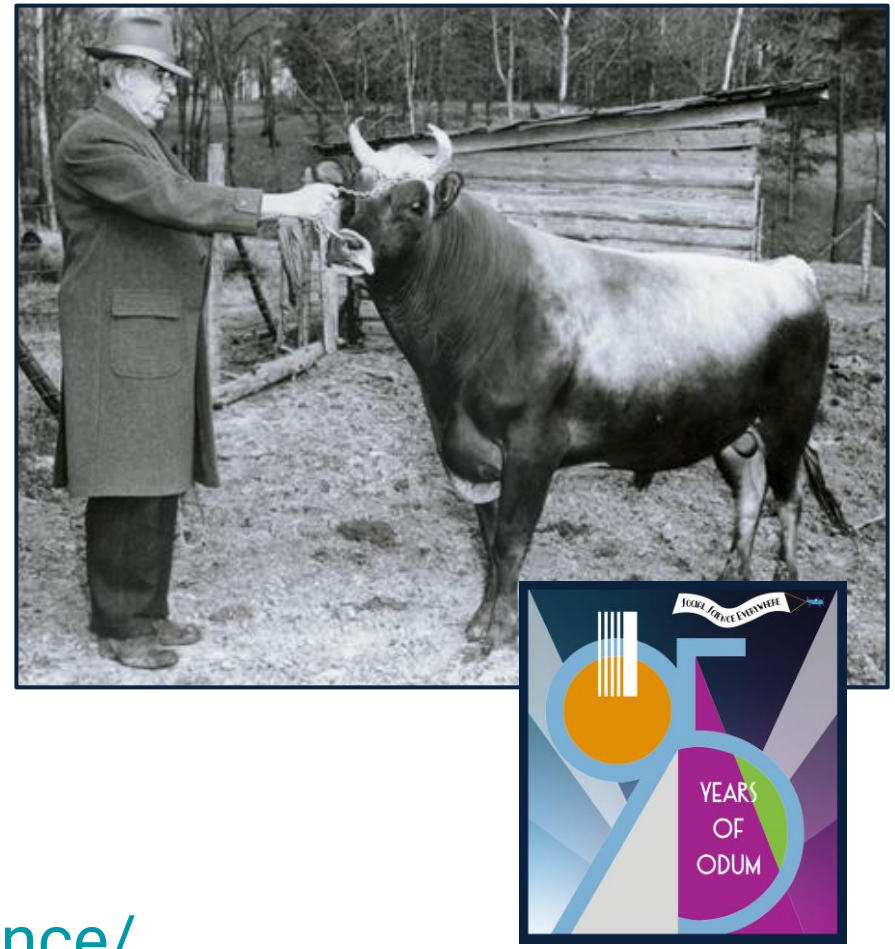
Who we are:
The Odum Institute

- Founded in 1924 by Howard W. Odum
- Oldest university-based interdisciplinary social science research institute in the U.S.
- *Celebrating 97 years of service*

The Odum Institute for Research in Social Science

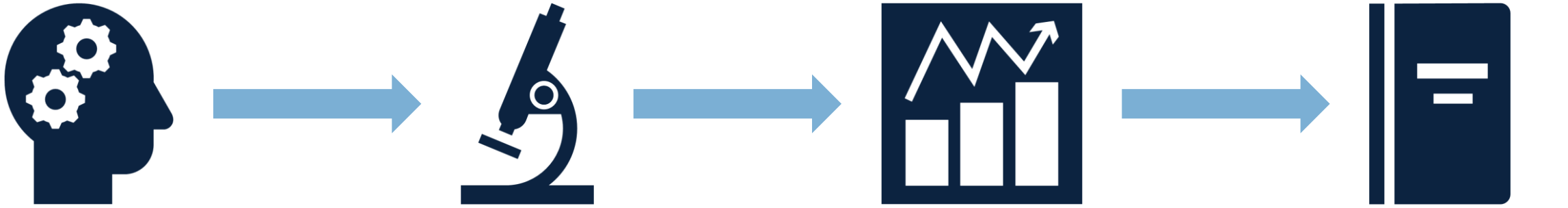
Our mission is to foster groundbreaking social research that improves the lives of people in North Carolina and around the world.

Our goal is to advance rigorous and reproducible research across the data, social, and health sciences, while building collaborative, trans-disciplinary research networks.



https://endeavors.unc.edu/a-father-for-social-science/

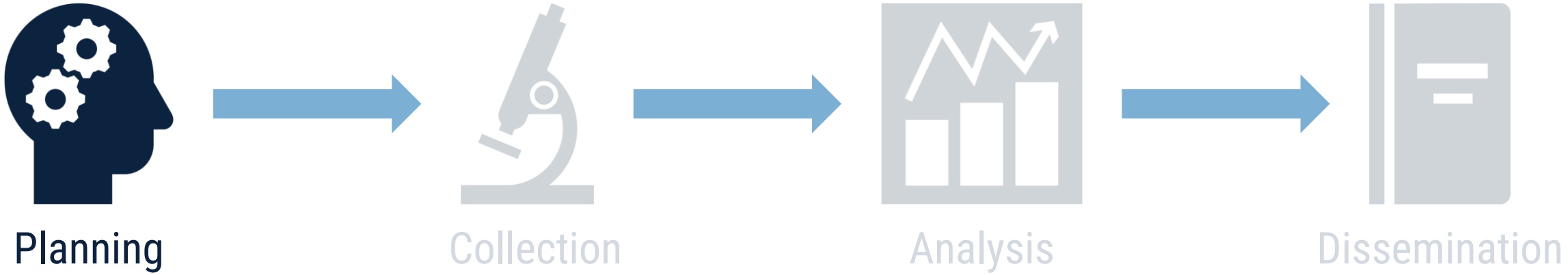
The Odum Institute for Research in Social Science



Services and Support Throughout the Research Lifecycle

What type of support do you, as a new faculty member, need?

The Odum Institute for Research in Social Science



Grant Proposal Assistance

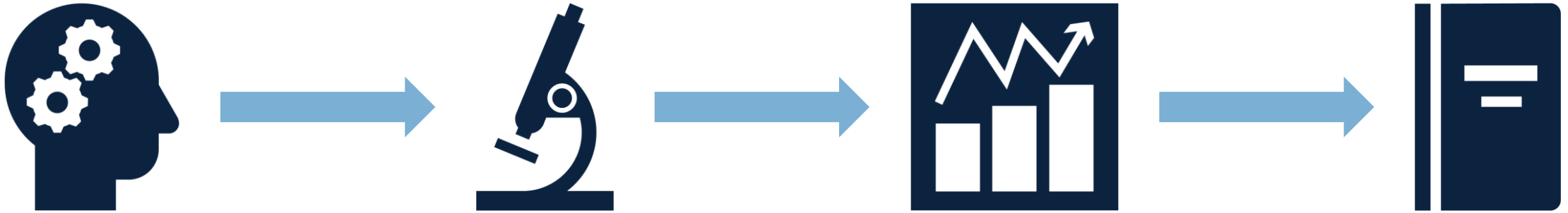
Data Management Planning

Methods Training

Research Question Development

Statistics Software Training

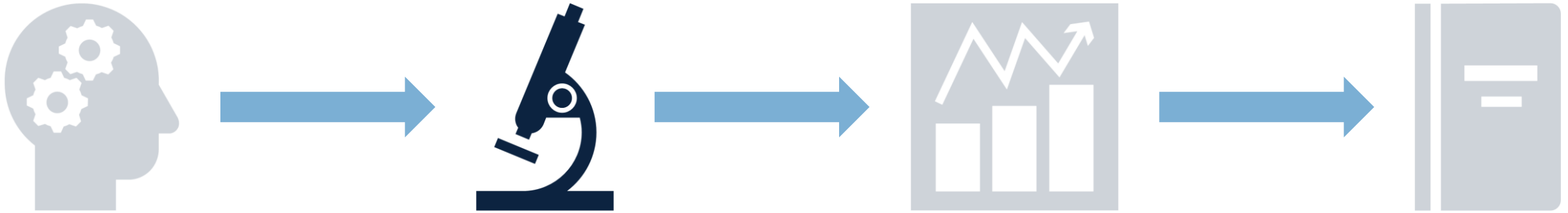
The Odum Institute for Research in Social Science



1,609
Trainees
2020 calendar year

- **706** Odum Institute Short Courses
- **543** Qualitative Research Summer Intensive
- **190** Data Matters
- **78** Certificate in Survey Science (formerly Survey Methodology)
- **92** Inter-university Consortium for Political & Social Research

The Odum Institute for Research in Social Science

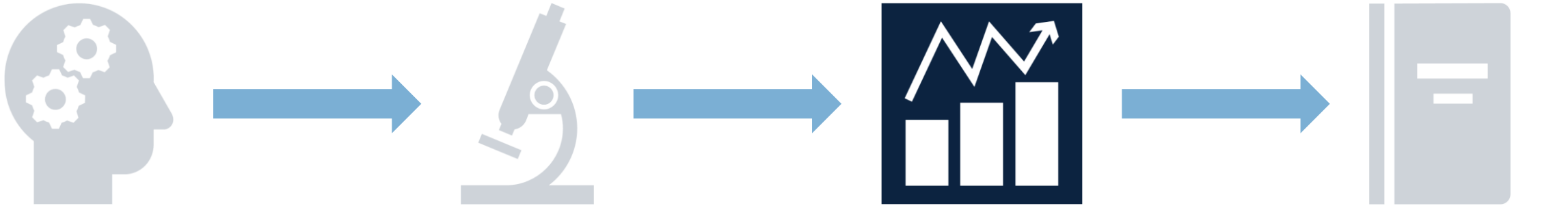


Survey Methodology | Focus Group Administration | Data Discovery

Qualtrics Support | Web Scraping | Instrument Design | Transcription

15,000+ users (2018-2020) **1.3M+** survey responses

The Odum Institute for Research in Social Science



Qualitative Data Analysis

Quantitative Data Analysis

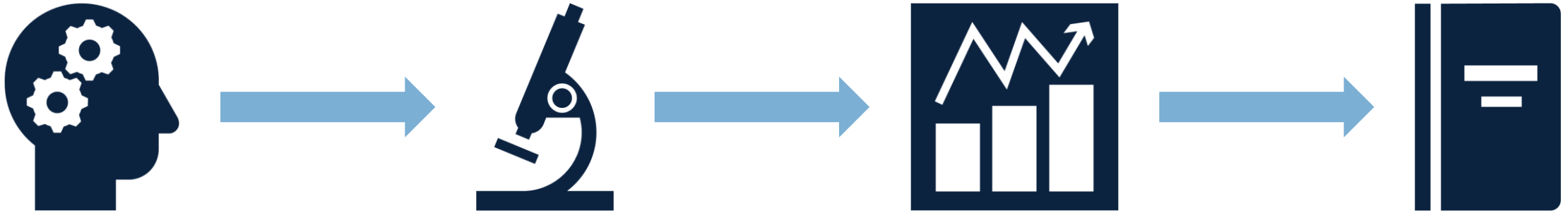
Text Analysis

Mixed Methods Data Analysis

Statistical Software Support

Computation

The Odum Institute for Research in Social Science

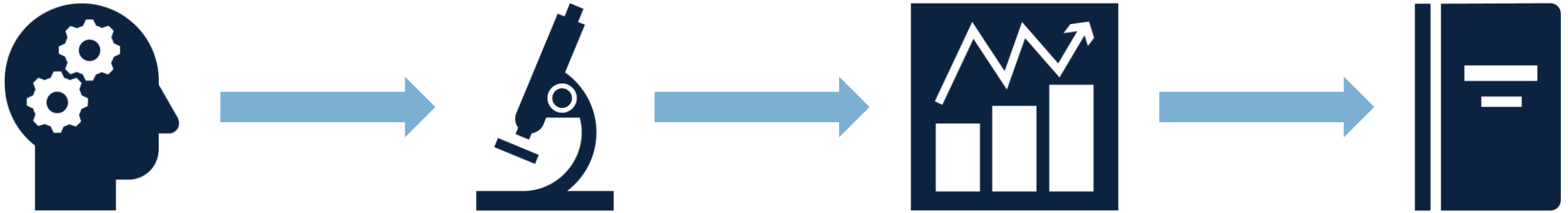


55% Graduate
12% Staff
12% Faculty
10% Undergraduate
5% Post-doc

3,130
Consultations
(FIscal Year 2020)

27% College of Arts & Sciences
44% Health Affairs

The Odum Institute for Research in Social Science



Planning → Collection → Analysis → Dissemination

Server Clusters

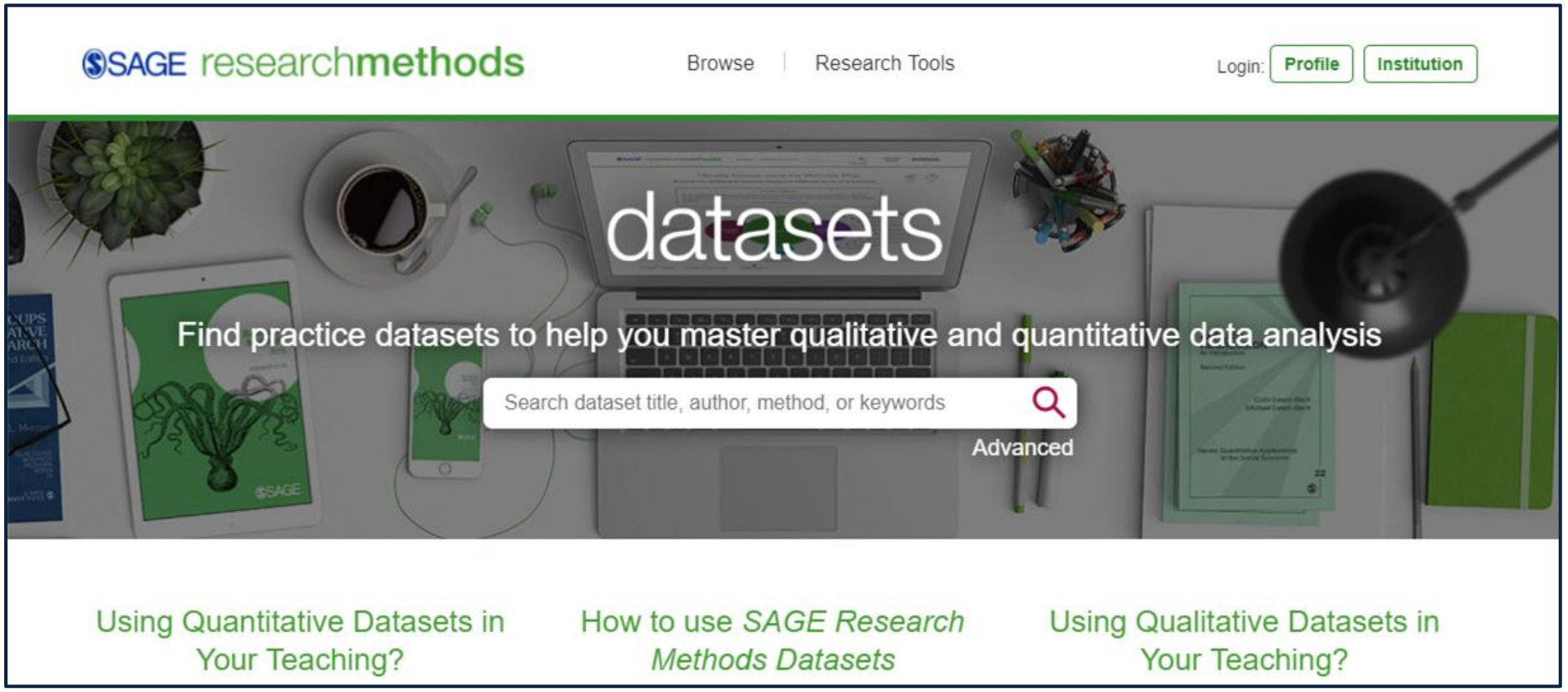
46 + 3
Training + Lab Workstations

275
Cores

75
Virtual and Physical Servers

300
Terabytes of Network Storage

Odum Institute-Produced Resources

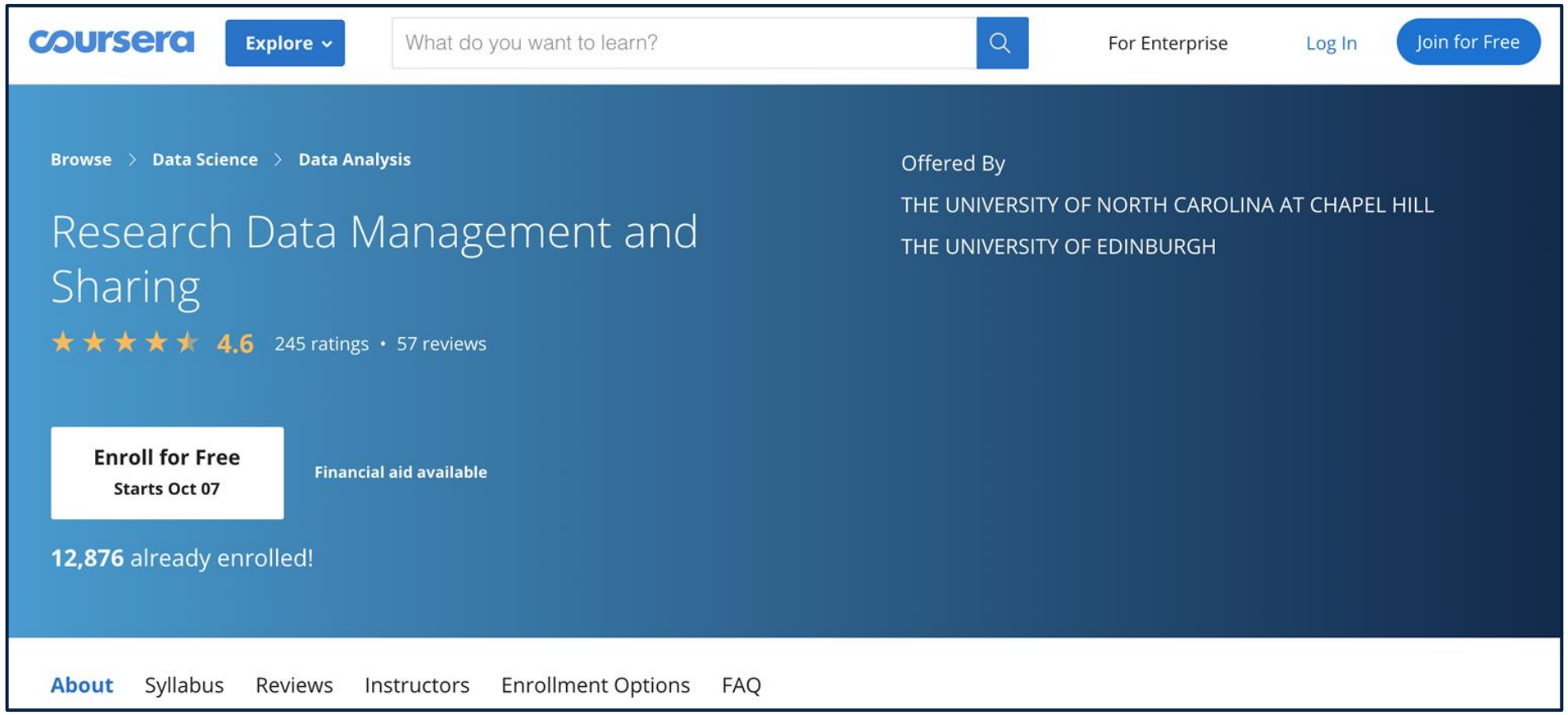


150+

training modules

http://methods.sagepub.com/Datasets

Odum Institute-Produced Resources

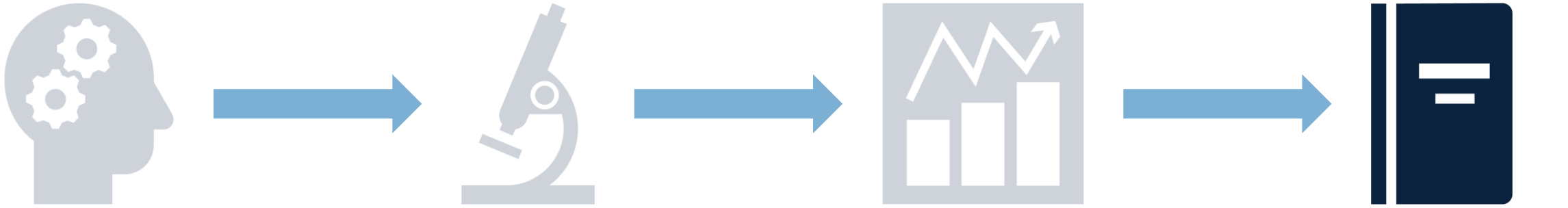


8,000+

active learners

https://www.coursera.org/learn/data-management

The Odum Institute for Research in Social Science



Data Archiving

Data Publication

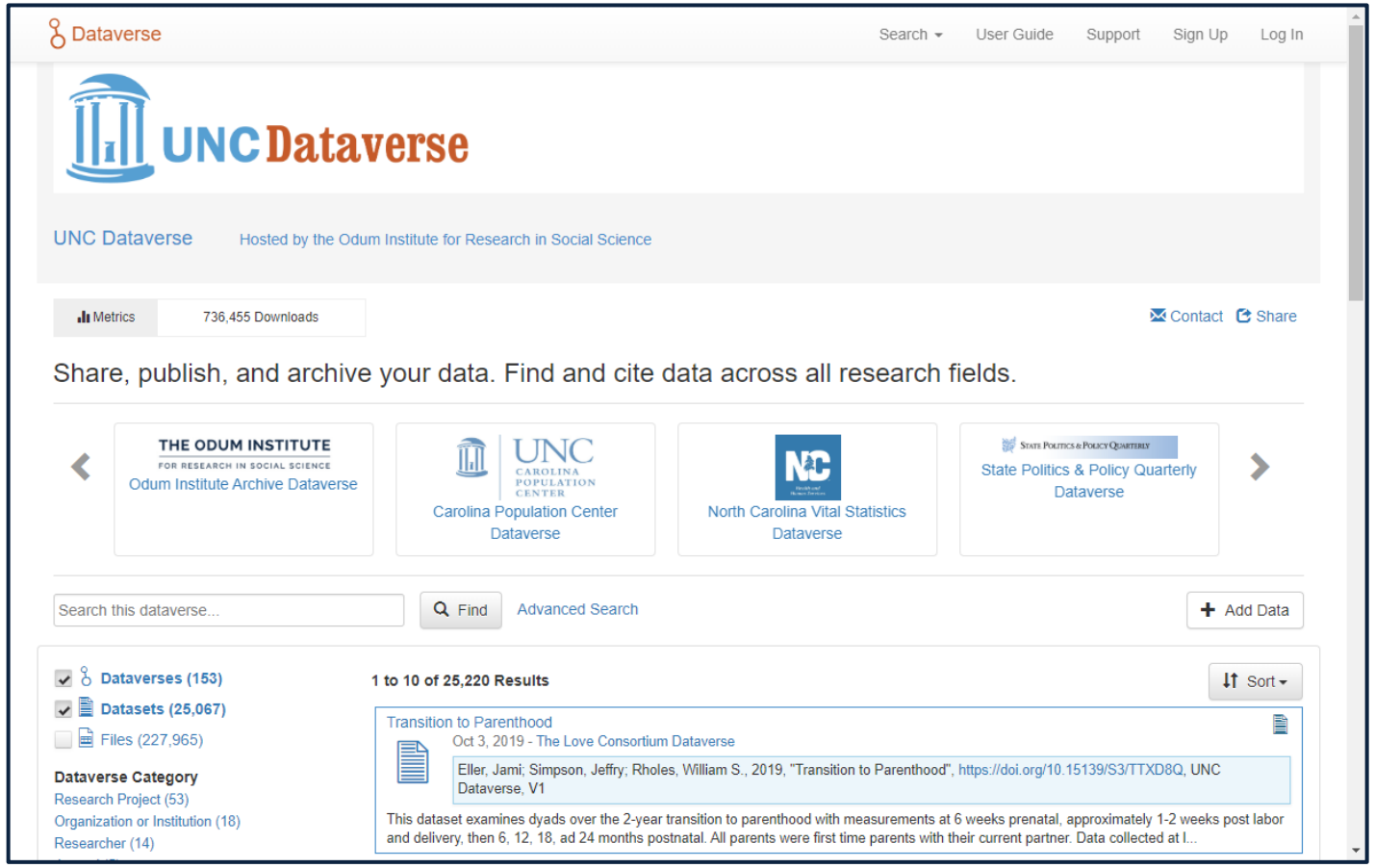
Data Policy Compliance

Computational Reproducibility Verification

Broader Impacts + Videography

The Odum Institute + Open Science

UNC Dataverse Repository



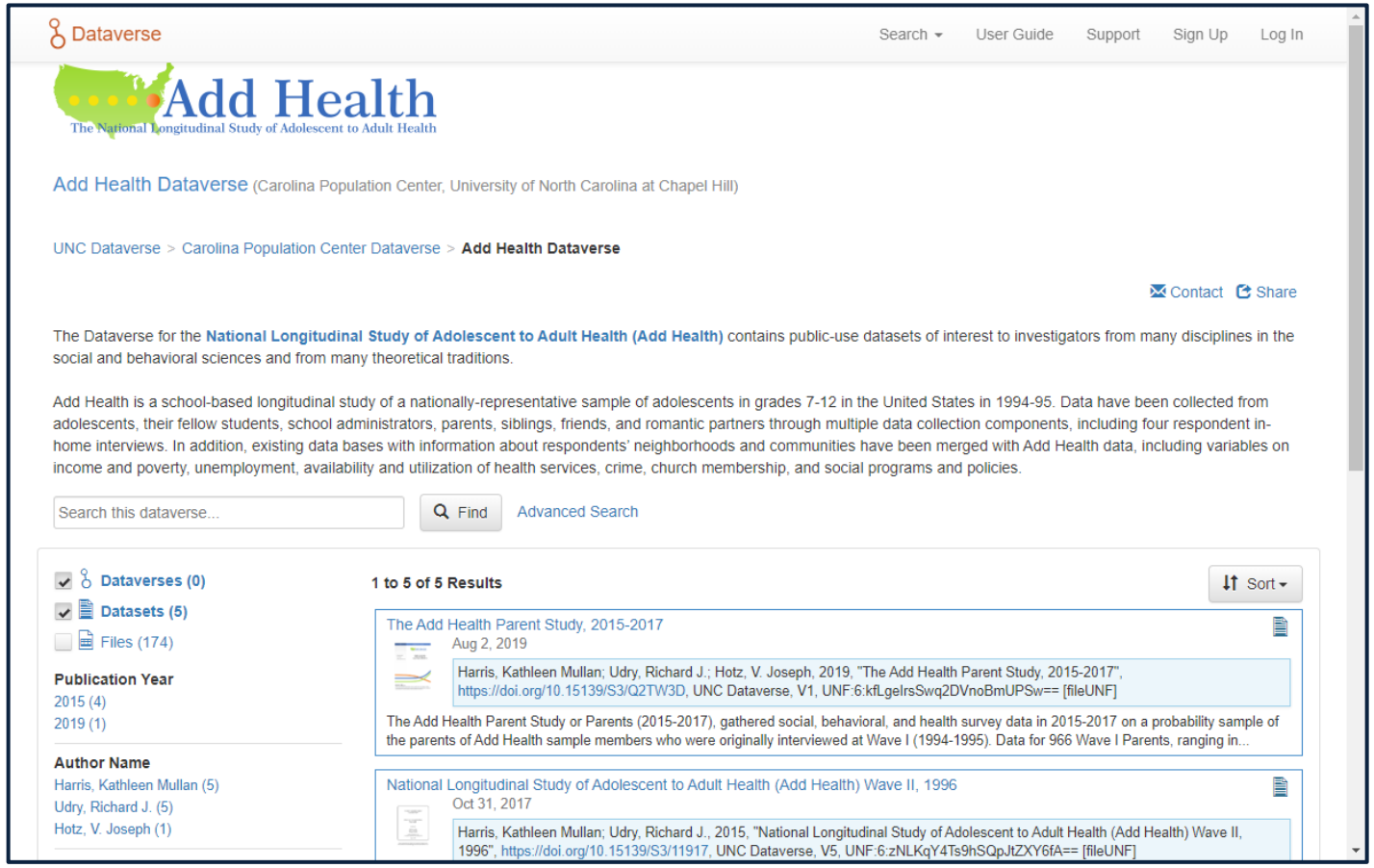
dataverse.unc.edu

UNC's only trustworthy digital data repository for managing and preserving research data for long-term discovery, access, interpretation, and reuse

Data Seal of Approval

The Odum Institute + Open Science

UNC Dataverse Repository



dataverse.unc.edu

Individual researchers, research project teams, labs, organizations, journals, and instructors can create their own branded Dataverse

The Odum Institute for Research in Social Science

Data Archiving

Preparing Sensitive Data for Sharing

Data Management Training

Research Project Support

Data Management Planning

Data Discovery

odumarchive@unc.edu

Data Acquisition

Data Repository Referral

Data Policy Compliance Support

Policy Development + Implementation

Remote Resources

Newsletter outlining how to access new remote services:

http://go.unc.edu/OdumOnline

Stats Help Desk Remote Hours

12PM - 4PM, Monday - Friday

http://go.unc.edu/statsdesk

Qualtrics Remote Hours

Monday: 1PM - 4PM

Thursdays: 10AM - 1PM

http://go.unc.edu/qualtrics

Consultants

http://go.unc.edu/Consultants

Find a consultant tool - https://odum.unc.edu/need-help/#help2

Data Archive

https://odum.unc.edu/archive/

Support/Services Details + Facilities Document

https://odum.unc.edu/need-help/#help1

Remote Resources (cont.)

SAGE Modules
https://odum.unc.edu/education/sage/

Guest Lecture Request Form
http://go.unc.edu/ShortCourseRequest

Online Resources
http://go.unc.edu/Resources

UNC Dataverse
https://dataverse.unc.edu/

Certificate in Survey Science
http://go.unc.edu/css

Summer Course Series
https://odum.unc.edu/education/summer-series/

Thank you.

Rocky L Riviella
riviella@email.unc.edu

UNC | ODUM INSTITUTE FOR RESEARCH IN SOCIAL SCIENCE

https://odum.unc.edu

oduminstitute@unc.edu

@Odum_Institute

UNC
THE NORTH CAROLINA
TRANSLATIONAL & CLINICAL
SCIENCES INSTITUTE

= NC TraCS

Research Development at TraCS: Funding, Training, and Collaborative Opportunities

August, 2021

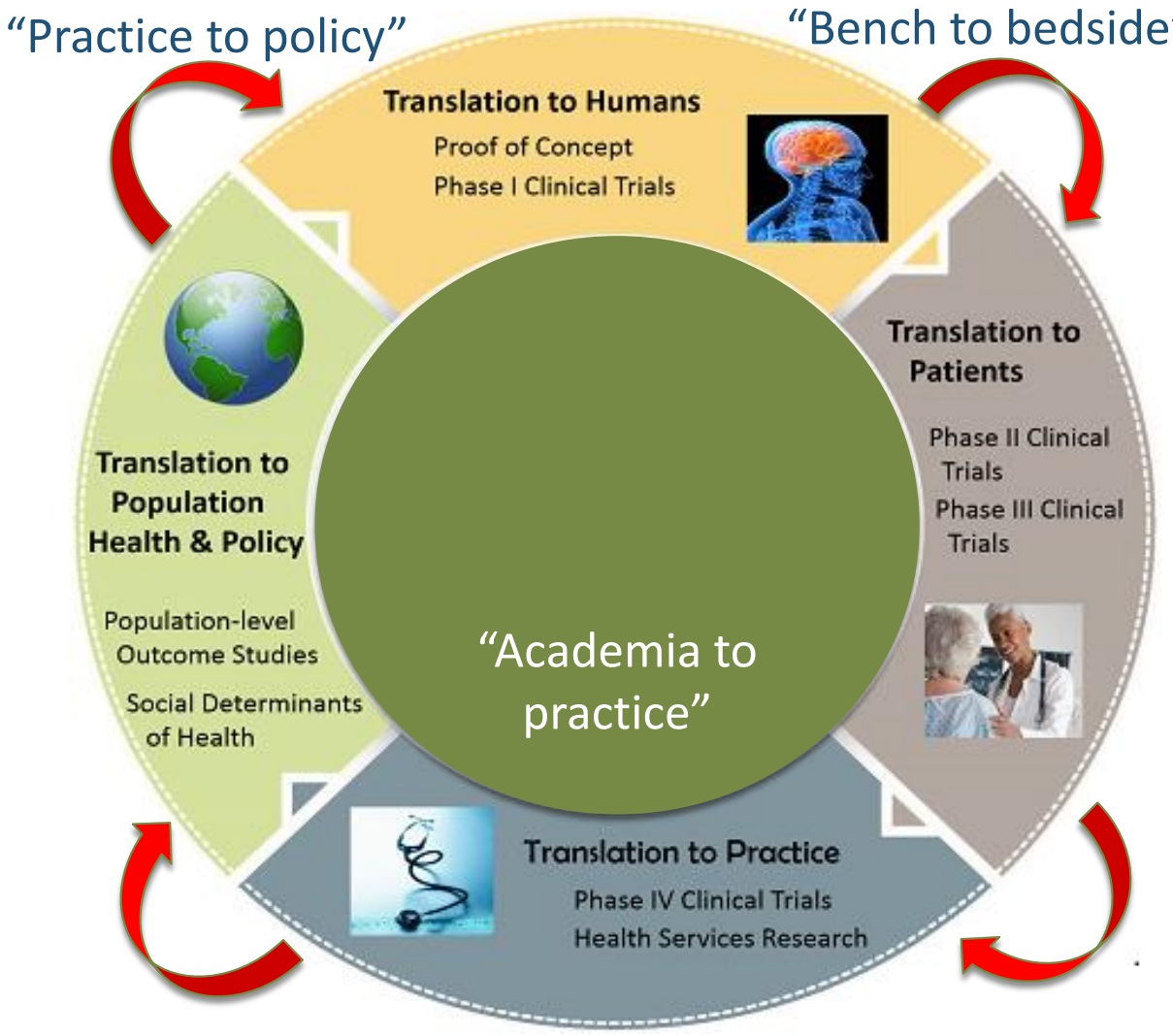
Susan Pusek, Director of Education Programs
susan_pusek@med.unc.edu

In brief…

- What: Institute funded by NIH: National Center for Advancing Translational Sciences
  - "Disease agnostic"
  - Part of a national consortium (about 60 other centers)
- Why: To expedite the transfer of research findings to improvements in human health and to train the next generation of researchers
- Who: Faculty (about 200) and staff (about 50)
- Where: Second floor Brinkhous Bullitt…or Zoom/WebEx

Scope of Translational Research

- Focus on team science
- Think:
  - Moving research findings to "tangible" improvements in human health



Adapted from: https://www.brown.edu/about/administration/biomed/clinical-translational-science/index.php?q=about/translational-research

Finding funding from TraCS

- TraCS Pilot Awards:
  - Goal is to stimulate future work and funding

- Focused pilot awards (change over time):
  - Cross-cutting problem:
    - COVID-19
    - Opioid crisis
  - Consortium: Duke/UNC and multi-site CTSA
  - Commercialization
  - Stakeholder engagement voucher program

Finding funding from TraCS- next few months

- Types of pilot awards:
  - $2K: monthly deadlines, short application
    - Open to faculty, doctoral students, postdoc trainees, and external researchers partnered with UNC faculty
  - $5-50K and other awards: variable number of cycles per year
    - Open to faculty
    - Requires a funding match
- If we are renewed:
  - Supplements:
    - Diversity, re-entry, and others
  - Career development: Junior faculty (K) and Postdocs (T)

Find funding using TraCS- any time

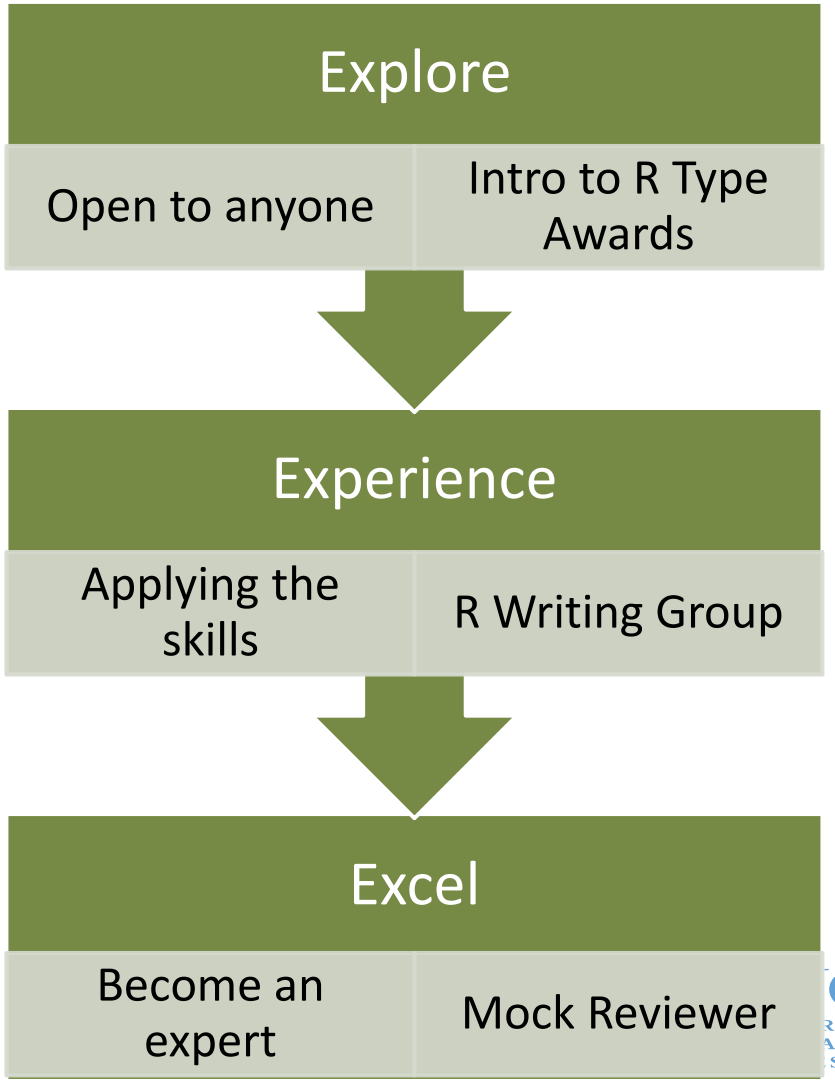
- All TraCS Services offer consultations and research implementation assistance
- Services can/should be included in a grant:
  - Biostatistics
  - Research Coordination and Management Unit, Recruitment Service
  - Training programs, professional development resources
  - Informatics resources
- Simple process to request Letter of Support

Find funding using TraCS

- Proposal development help pre-submission:
  - Introduction to Career Development Awards (CDA)
  - Introduction to R-type Awards
  - CDA and R Writing Groups
  - Mock reviews: pre-submission study section style reviews with content experts
- Other services:
  - Assist with interpretation of RFA, example grants
  - “Readiness” for grant mechanism
  - Identify collaborators and/or mentors

Approach to Training

- All service areas in TraCS offer "skills-based" training
- Will also refer to colleagues across campus



Training programs- K

- Awardees receive stipend or salary directly from TraCS grant
- K is an *institutional* mentored career development award for junior faculty (similar review criteria as K08, K23, etc.)
  - Up to 3 years of 75% salary support to protect time for research and training, plus research funds
  - Goal is to launch career as independently funded investigator
  - Must argue that you need more training and mentorship
- Until grant renewed:
  - K Writing Groups for external Ks
  - Consults with faculty

Training programs- T

- Postdoctoral program in translation
  - Postdocs spend 1-2 years learning how to translate a “product/idea/data” in one of 3 areas:
    - Commercialization
    - Clinical trials/regulatory
    - Health systems
  - Scientific mentors and “resource mentors”
    - Training tailored to skills needed: communication may be business pitch OR application to FDA OR policy brief to insurance payors
  - Follows most NIH T mechanism procedures
  - Open application process until Feb 2022

Getting the research done: Team Science

- Helps identify collaborators, consultants at UNC, TraCS partners, and CTSA Consortium
- Assists team members with best practices for team function (e.g. collaboration agreements)

https://tracs.unc.edu/index.php/services/team-science/team-based-research-tips

Getting the research done: Biostatistics

- Biostatistics:
  - Biostatistics Seminar Series
  - Free consultations
  - Walk-in hours
  - Match expertise to grant

2019 Sessions

Date / Time	Topic / Location
Friday 8/30/19 10:30 am - Noon	Power and Sample Size Register
Friday 9/27/19 10:30 am - Noon	Pilot Study Design and Review Register
Friday 10/25/19 10:30 am - Noon	An Introduction to Multistate Models and Competing Risk Data Register
Friday 11/22/19 10:30 am - Noon	Observational data that make causal inference straightforward Register

Getting the research done: Beyond UNC

- Community and Stakeholder Engagement and Inclusive Science Programs:
  - Build partnerships outside of UNC
  - Six practice-based research networks
  - Multilingual research resources
  - Stakeholder Network

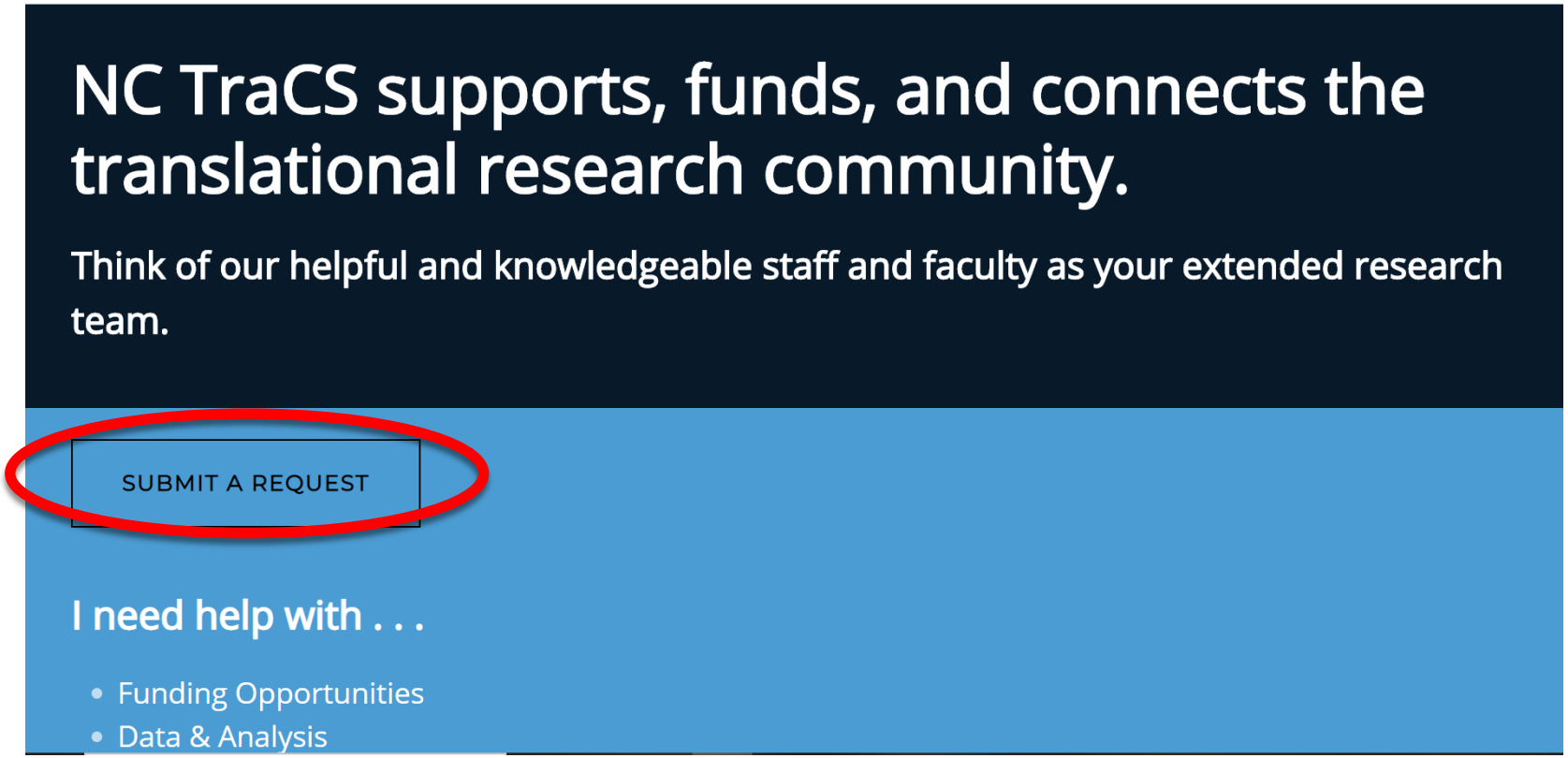
Getting the research done: IDSci

- Informatics and Data Science
  - Medical record data: Carolina Data Warehouse
  - Help on how to search medical records
  - Access to more records: clinical data networks
  - Accrual to Clinical Trials (ACT) network: allows exploration of feasibility by providing potential subject counts at UNC and other consortium sites

Getting the research done: Clinical

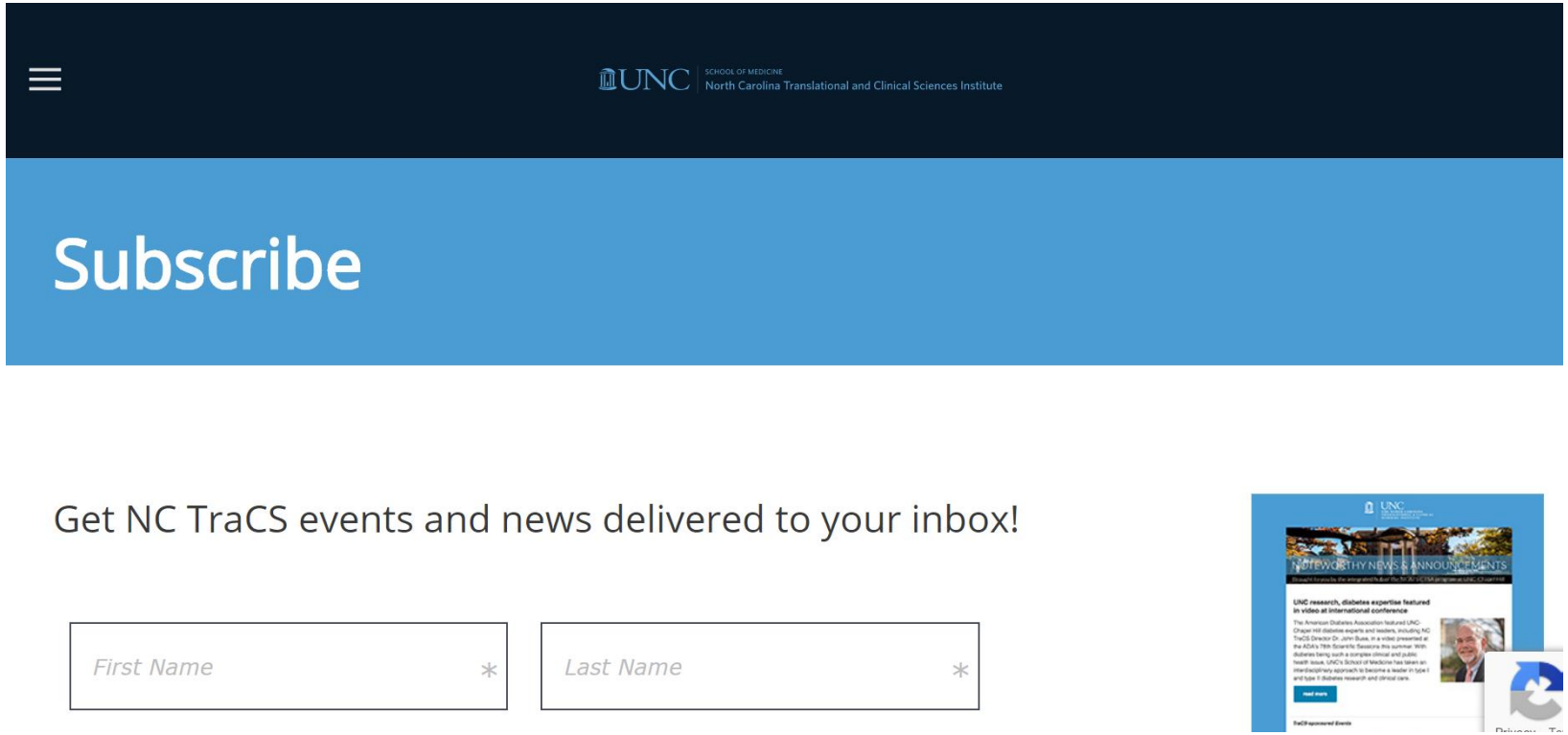
- Clinical Research:
  - Place to see subjects: Clinical and Translational Research Center
    - Inpatient and outpatient
  - People to help do the research: Research Coordination and Management Unit
  - Help finding subjects: Recruitment Services
  - Help following the rules: Regulatory
    - NIH Human Subjects forms!

How to keep up: tracs.unc.edu



"Inspirational video"

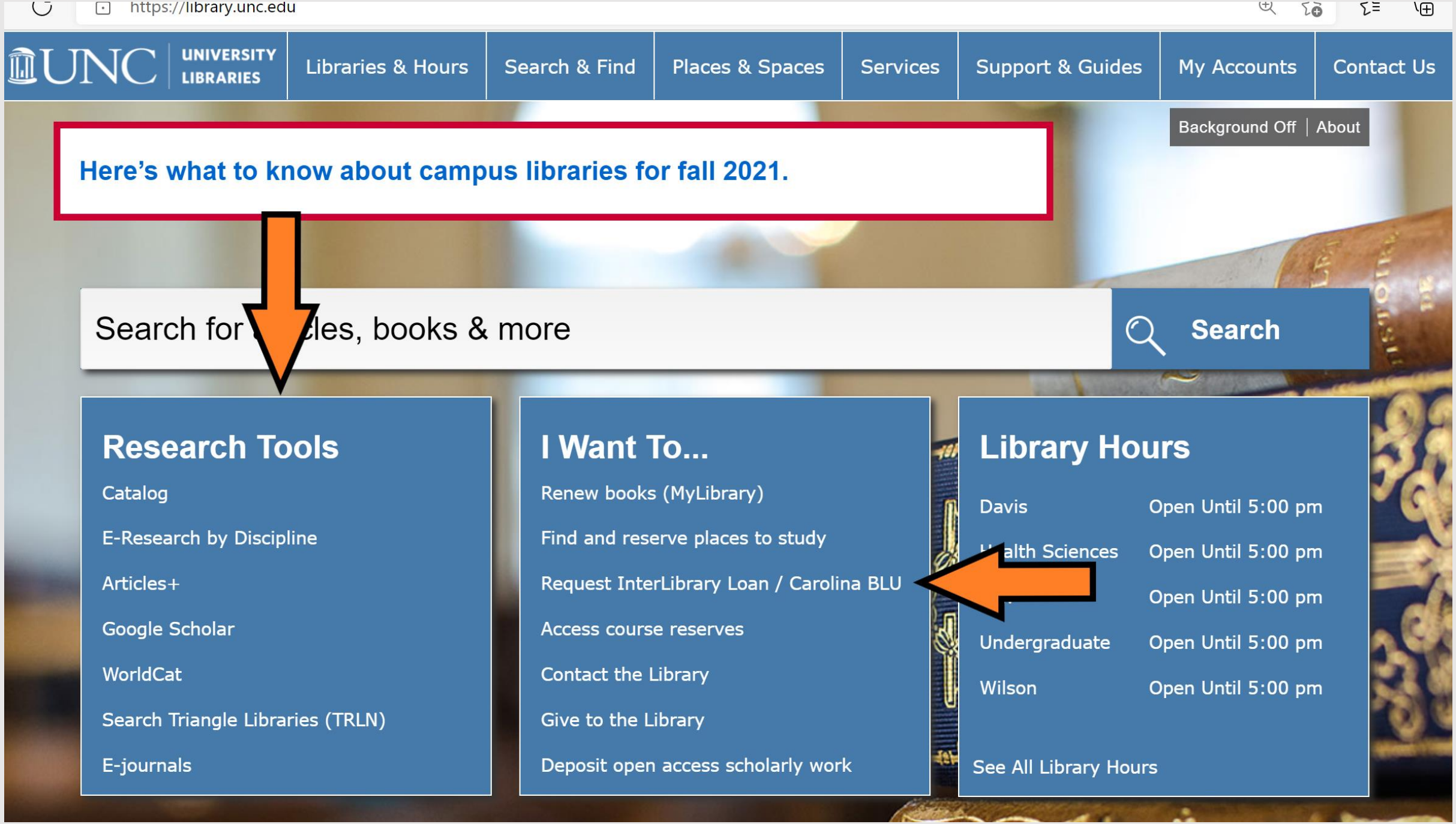
How to keep up



https://tracs.unc.edu/index.php/subscribe

Research Support from the University Libraries

Jacqueline Solis, Director of Research and Instructional Services
jsolis@email.unc.edu


https://library.unc.edu
UNC UNIVERSITY LIBRARIES
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Here's what to know about campus libraries for fall 2021.
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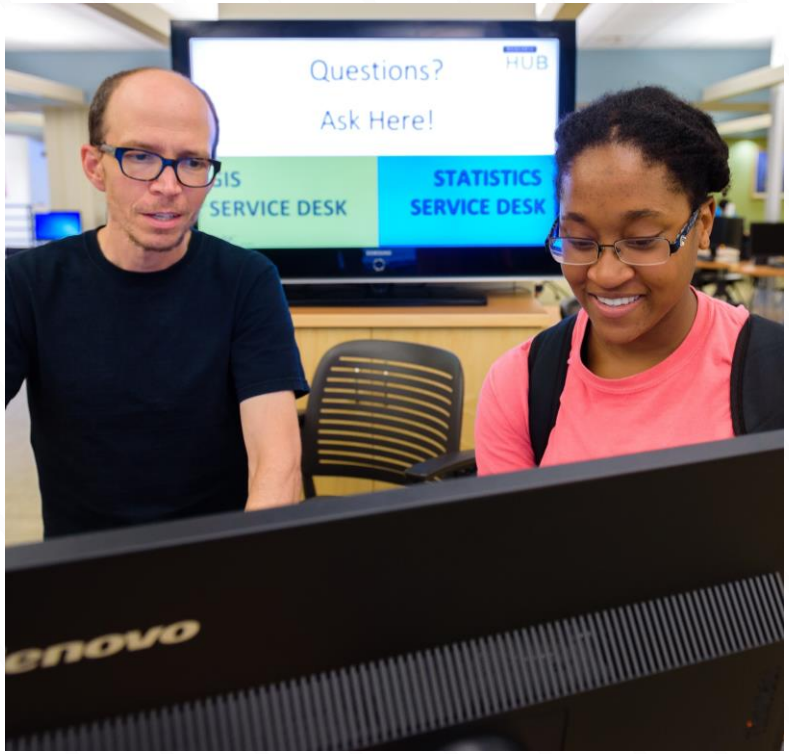
Access course reserves
Contact the Library
Give to the Library
Deposit open access scholarly work
Library Hours
Davis Open Until 5:00 pm
alth Sciences Open Until 5:00 pm
Open Until 5:00 pm
Undergraduate Open Until 5:00 pm
Wilson Open Until 5:00 pm
See All Library Hours

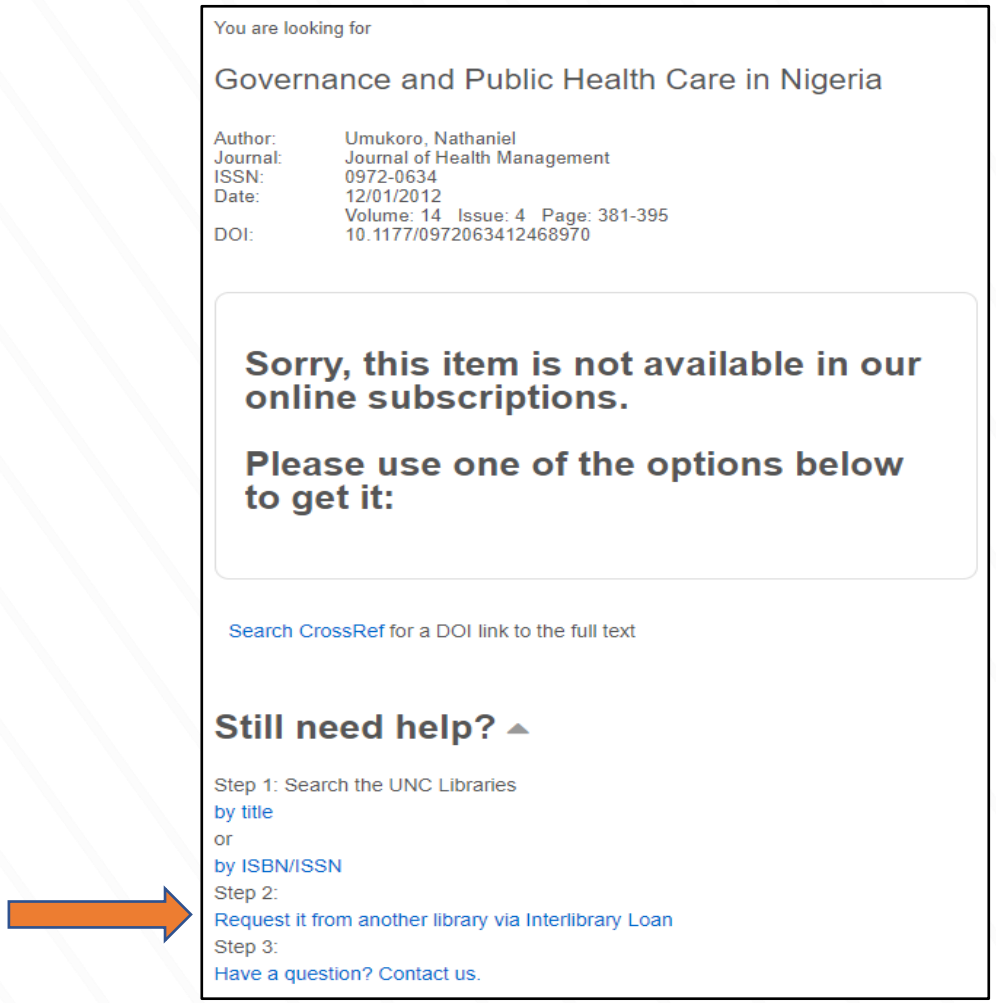
Research Consultations

- Making full use of UNC Libraries
- Literature and data searches
- Choosing the best tools, databases, repositories, and archives for project
- Identifying journals for publication
- Citation Management: EndNote, Zotero, F1000 Workspace,
- Designing posters, presentations, websites



Borrowing, Interlibrary Borrowing, and Article Delivery

- Your OneCard and ONYEN give you access to UNC resources
- You have borrowing privileges for physical items at Duke, NCSU, and NCCU with your OneCard
- If UNC does not have the journal articles or books that you need, we will do everything we can to get access for you
- Use *library.unc.edu > I Want to > Request InterLibrary Loan/Carolina BLU* or Follow link from database search



Scholarly Communications Office

Guidance, policy development, and advocacy for faculty, students, and staff on the following issues:

- Copyright and fair use (including advice about clearing permissions for use)
- Publishing Process and Authors' rights (including author contract negotiation support and how to retain your rights as an author)
- Privacy rights (including clarification about sharing your work)
- Open access (including Creative Commons licenses)
- Support for Article Processing Charges for some publishers
- Other policies related to scholarly material

Carolina Digital Repository (CDR)

What is it?

- System for storage, preservation, and dissemination of completed UNC scholarship
- Articles, book chapters, datasets, posters, conference papers, reports, and more
- One way to meet UNC's Open Access Policy goal of "disseminate the fruits of its research and scholarship as widely as possible."

To deposit:

1. *library.unc.edu > I Want to > Deposit open access scholarly work* or to https://cdr.lib.unc.edu/
2. Click on the icon that best represents the content
3. Fill out the form
4. You're done!

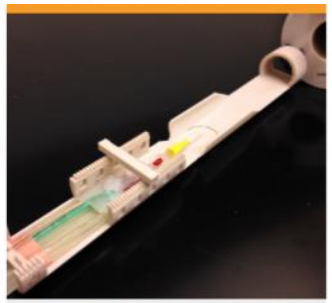
Questions? Contact cdr@unc.edu

UNC UNIVERSITY LIBRARIES
Carolina Digital Repository

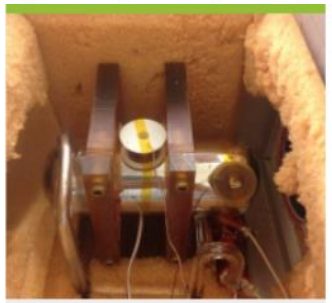
RESEARCH HUB SERVICES ARE CAMPUS-WIDE

UNC UNIVERSITY LIBRARIES

GIS and Data, Statistics, Visualization, Digital Humanities, 3D Printing



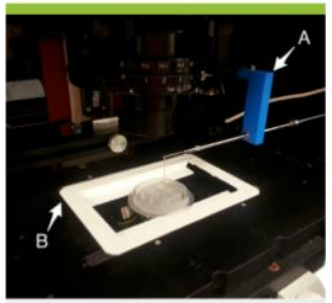
Small Animal Imaging With Hyperpolarized Xe Gas



Low-Field NMR Spectrometer

The Worlds of M.C. Escher

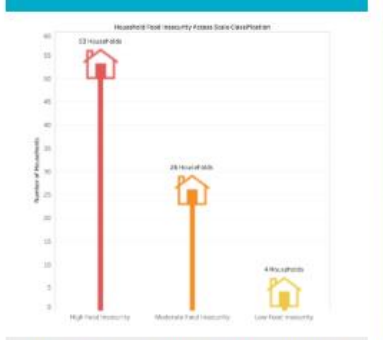
Dengue Virus Envelope Protein Structure and Topography



High-Throughput in Vitro Physiology for the Human Intestinal Epithelium

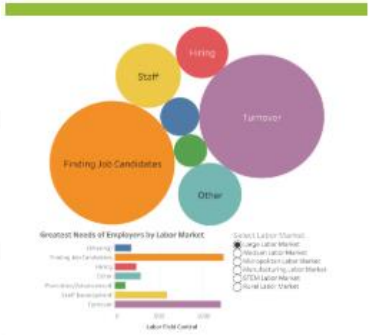
Wheelchair Joystick Cap

Russian History Story Maps

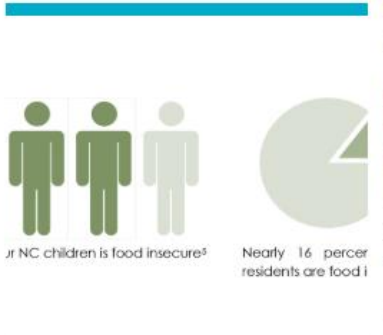


Yemen Food Insecurity Project

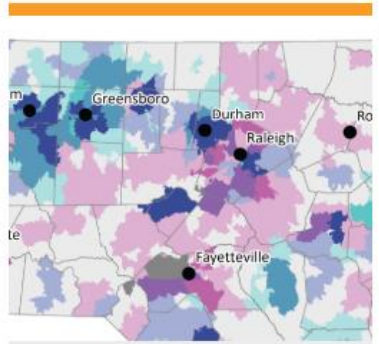
Visualizing Vulnerability to Climate Extremes



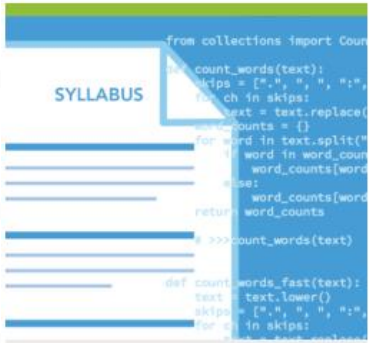
NC's Tightening Labor Market



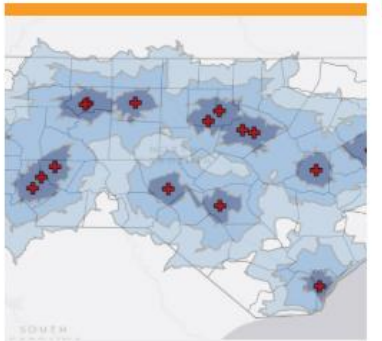
Communicating Policy Issues and Solutions



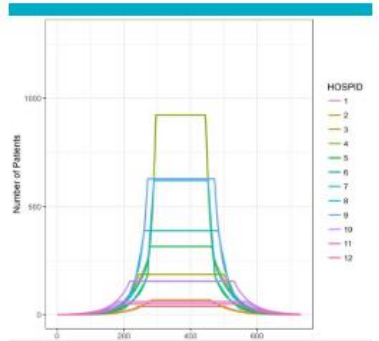
Maternal and Child Health Home Visiting



Pharmacy Syllabus Text Analysis



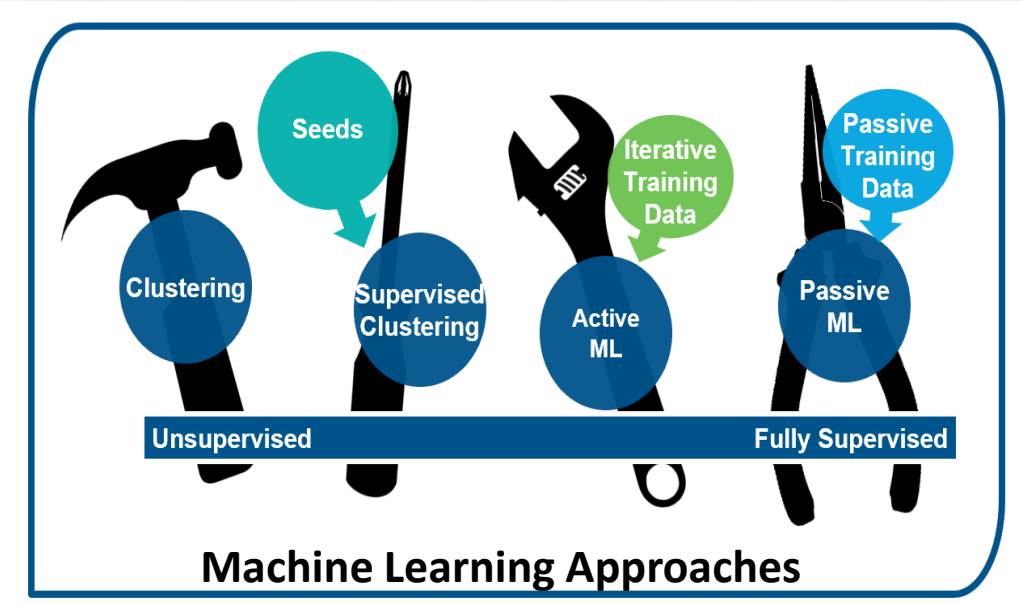
Access to Neurological Medical Care



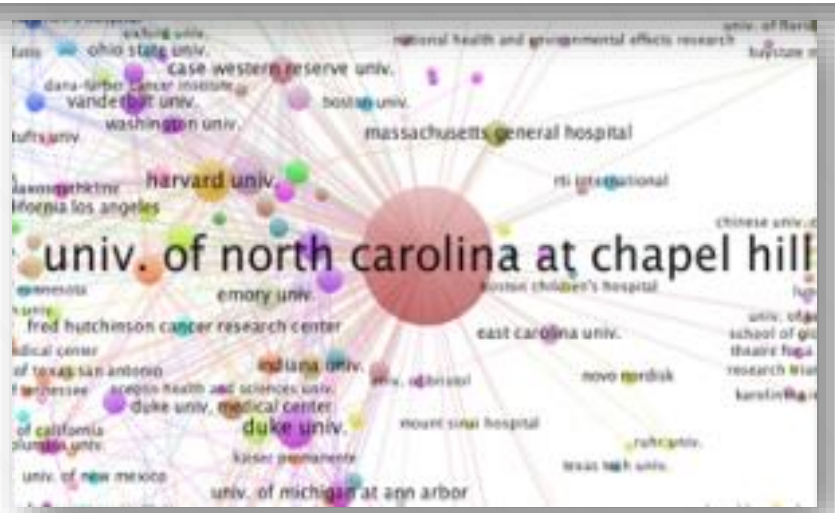
Triangle Hospital Surge Capacity

Research Collaboration

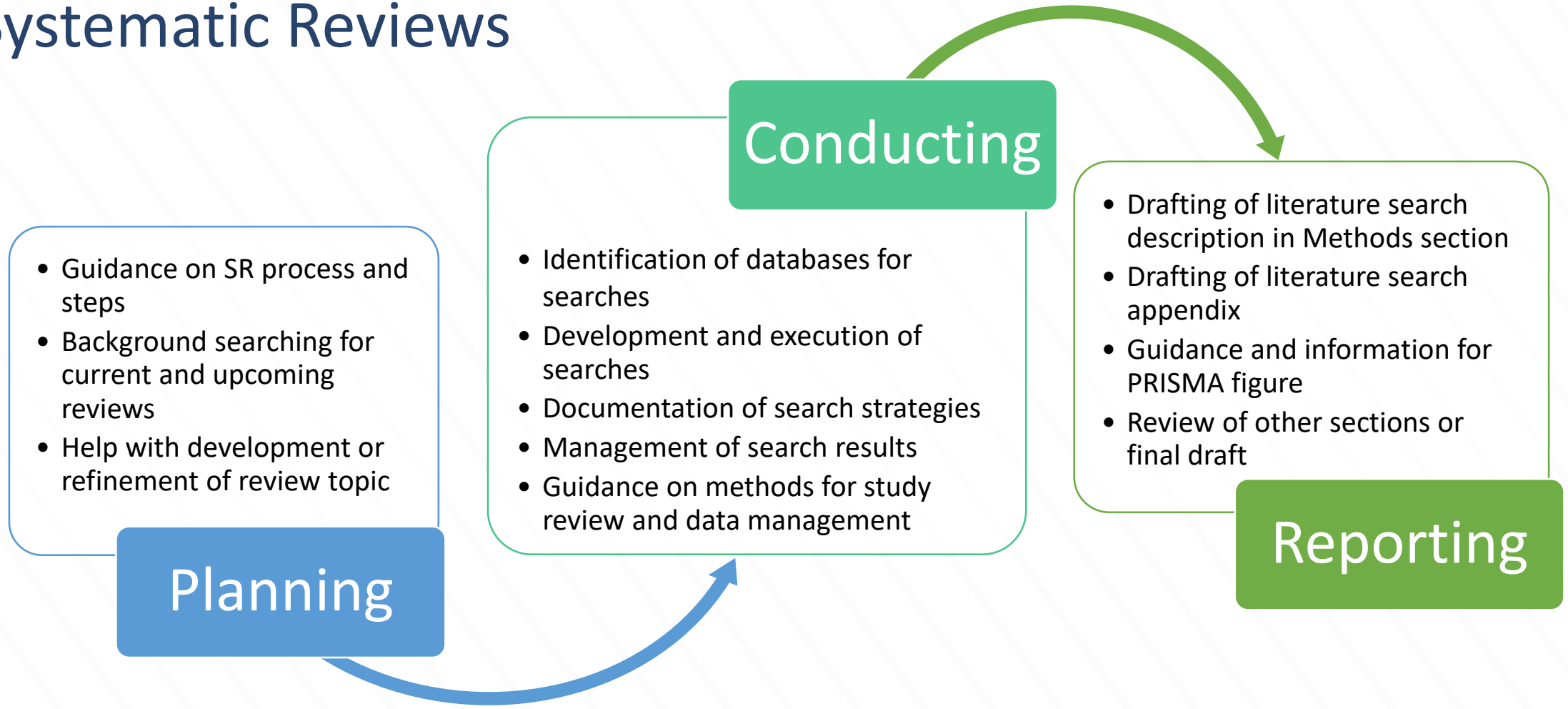
- Finding Funding Opportunities
- Machine Learning for Literature Searching & Systematic Reviews
- Impact Measurement & Data Visualization



Machine Learning Approaches



The Librarian's Role in Systematic Reviews



Impact Measurement & Visualization Service

- Communicate research impact to audiences
- Measure and assess research impact by discipline
- Identify patterns, trends, and gaps in research, education, or clinical activities
- Analysis & visualization of your research publications and other outputs

Contact for more information

- Jacqueline Solis: jsolis@email.unc.edu

- *Contact Us* in upper right corner of library website: https://library.unc.edu

Introduction to Research Support at Carolina

Post-Session Survey
(please watch for a Faculty Foundations Survey this week!)

Thank you!