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

- Expected
- Discussed
- Produced
- Valued
Research Support System at Carolina
OFFICE OF THE EXECUTIVE VICE CHANCELLOR AND PROVOST

Organizational Chart
Effective: January 2, 2020

Jaqueline Solis, Director of Research & Instructional Services
Nera Llamas
AUL Collections, Strategy and Services

Michael Bank
Intrvsn Chnnllr for Information Technology and Chief Information Officer

Terry Magnuson
Intrvsn Chnnllr for Research

Jonathan S ABS
Intrvsn Chnnllr for Student Affairs

Scott De Rossi
Dean, School of Dentistry

Raymund Furr
Assoc. Provost for Global Affairs

Jaqueline Solis
Director of Research & Instructional Services

Erin Malloy, Director
Center for Faculty Excellence
- Research (DJK)
- Leadership
- Teaching and Learning
- Mentoring

Susan Pusek, Director of Education Programs, NCTraCS

Research Support System at Carolina
# CFE Research & Writing Support for Faculty

## RESEARCH AT CAROLINA

<table>
<thead>
<tr>
<th>Design/Analysis</th>
<th>Conduct</th>
<th>Scholarship</th>
<th>Grantsmanship</th>
<th>Publication</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>

- **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
RESEARCH
DEVELOPMENT
at the University of North Carolina at Chapel Hill

Spring 2021 Update
ORD’S MISSION

GROWING the RESEARCH ENTERPRISE at CAROLINA
WHAT IS RESEARCH DEVELOPMENT?

“Pre-Pre-Award”  Pre-Award  Post-Award
Sponsor Strategy  Team Formation  Concept & Funding  Proposal Creation  Proposal Submission  Award Negotiation  Award Setup  Award Management  Project Closeout

“Pre-Pre-Award”  Pre-Award
Sponsor Strategy  Team Formation  Concept & Funding  Proposal Creation

ORD’s Function/Services
ORD – Programmatic Updates

1. FUNDamentals
2. Limited Submissions and Awards Management System
3. Large and Complex Proposal Development Support
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
Questions? Email Limited_Submissions@unc.edu
Welcome to the Limited Submissions, Awards, and Internal Funding Management System

Use this application to find and submit limited submission and award opportunities, as well as some internal funding opportunities.

- When you find the right opportunity, make sure you:
  - Create an opportunity submission form,
  - Provide the required information, and
  - Submit the form by the Submission Deadline date

<table>
<thead>
<tr>
<th>INT DEADLINE</th>
<th>EXT DEADLINE</th>
<th>OPPORTUNITY NAME</th>
<th>OPPORTUNITY DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/18/2021</td>
<td>05/01/2021</td>
<td>The American Honda Foundation 2021 Grant</td>
<td>The American Honda Foundation engages in grant making that reflects the basic tenets, beliefs and philosophies of Honda companies, which are characterized by the following qualities: imaginative, creative, youthful, forward-thinking, scientific, humanitarian and innovative. The Foundation supports youth education with a specific focus on the STEM (science, technology, engineering, and mathematics) subjects in addition to the environment.</td>
</tr>
<tr>
<td>03/20/2021</td>
<td>05/04/2021</td>
<td>NH Human Immunology Project Consortium (HIPC) (U19 Clinical Trial Option)</td>
<td>This Funding Opportunity Announcement (FOA) for the Human Immunology Project Consortium (HIPC) solicits applications from single institutions or consortia of institutions to participate in a network of human immunology profiling research groups in the area of infectious diseases, including HIV.</td>
</tr>
<tr>
<td>04/07/2021</td>
<td>07/05/2021</td>
<td>New Chemistries for Un-drugged Targets through A Specialized Platform for Innovative Research Exploration (ASPIRE) Collaborative Research Program</td>
<td>This Funding Opportunity Announcement (FOA) aims to promote partnerships between NCATS extramural investigators (e.g., those conducting research within the labs and clinics of NCATS) and extramural investigators (e.g., those conducting research in labs and clinics outside of the NIH). Specifically, the FOA will support innovative investigators to take advantage of the unique research opportunities available at the NCATS ASPIRE Laboratory within the NCATS Division of Pre-clinical Innovation (DPI), and develop innovative ASPIRE modules that will facilitate identification of novel chemical entities targeted towards currently unexplored biological spaces.</td>
</tr>
</tbody>
</table>
Large and Complex Proposal Support

Proposal Development Tracks

1. 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.

2. 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.

3. 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.

4. 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.

5. Proposal Optimization
   Start with a complete, pre-submission proposal or re-submission. End with a better shot at funding.
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.
ENGAGING WITH PARTNERS

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

Contact:
research.unc.edu/research-development
ord@unc.edu
Introduction to Research at Carolina

Office of Sponsored Research (OSR)

Amanda Chang – Director of Operations
Outline

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

**PROPOSAL**
- Review
- Submission

**FINANCIAL**
- Cash Mgmt
- Billing
- Reporting

**COMPLIANCE**
- Effort Reporting
- Pre/Post Audit

**SUPPORT**
- ResAdminOSR
- OSRBilling
- Website
- Communication
- Training

**AWARD**
- Negotiation
- Set-Up
- Management

**AWARD**
- Closeout

**COSTING**
- F&A Rates
- Recharge Centers

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

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

RA: Contracting (Subwards)

SIP Portal

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

Planning → Collection → Analysis → Dissemination

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

Planning → Collection → Analysis → Dissemination

- Grant Proposal Assistance
- Data Management Planning
- Methods Training
- Research Question Development
- Statistics Software Training
The Odum Institute for Research in Social Science

Planning → Collection → Analysis → Dissemination

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

Planning → Collection → Analysis → Dissemination

- Qualitative Data Analysis
- Quantitative Data Analysis
- Text Analysis
- Mixed Methods Data Analysis
- Statistical Software Support
- Computation
The Odum Institute for Research in Social Science

Planning → Collection → Analysis → Dissemination

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

3,130 Consultations

- 27% College of Arts & Sciences
- 44% Health Affairs

(Fiscal Year 2020)
The Odum Institute for Research in Social Science

Planning → Collection → Analysis → Dissemination

Server Clusters

- Training + Lab Workstations: 46 + 3
- Cores: 275
- Virtual and Physical Servers: 75
- Terabytes of Network Storage: 300
Odum Institute-Produced Resources

150+ training modules

http://methods.sagepub.com/Datasets
Odum Institute-Produced Resources

Research Data Management and Sharing

Offered By
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
THE UNIVERSITY OF EDINBURGH

Enroll for Free
Starts Oct 07

12,876 already enrolled!

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

8,000+ active learners
The Odum Institute for Research in Social Science

Planning → Collection → Analysis → Dissemination

Data Archiving       Data Publication       Data Policy Compliance
Computational Reproducibility Verification       Broader Impacts + Videography
The Odum Institute + Open Science

UNC Dataverse Repository

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

dataverse.unc.edu
The Odum Institute + Open Science
UNC Dataverse Repository

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

dataverse.unc.edu
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
<table>
<thead>
<tr>
<th>Resource</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAGE Modules</td>
<td><a href="https://odum.unc.edu/education/sage/">https://odum.unc.edu/education/sage/</a></td>
</tr>
<tr>
<td>Guest Lecture Request Form</td>
<td><a href="http://go.unc.edu/ShortCourseRequest">http://go.unc.edu/ShortCourseRequest</a></td>
</tr>
<tr>
<td>Online Resources</td>
<td><a href="http://go.unc.edu/Resources">http://go.unc.edu/Resources</a></td>
</tr>
<tr>
<td>UNC Dataverse</td>
<td><a href="https://dataverse.unc.edu/">https://dataverse.unc.edu/</a></td>
</tr>
<tr>
<td>Certificate in Survey Science</td>
<td><a href="http://go.unc.edu/css">http://go.unc.edu/css</a></td>
</tr>
<tr>
<td>Summer Course Series</td>
<td><a href="https://odum.unc.edu/education/summer-series/">https://odum.unc.edu/education/summer-series/</a></td>
</tr>
</tbody>
</table>
Thank you.

Rocky L Riviella
riviella@email.unc.edu

ODUM INSTITUTE FOR RESEARCH IN SOCIAL SCIENCE

https://odum.unc.edu
oduminstitute@unc.edu
@Odum_Institute
Research Development at TraCS: Funding, Training, and Collaborative Opportunities

August, 2021
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
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
All service areas in TraCS offer “skills-based” training

Will also refer to colleagues across campus

---

**Explore**
- Open to anyone
- Intro to R Type Awards

**Experience**
- Applying the skills
- R Writing Group

**Excel**
- Become an expert
- Mock Reviewer
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
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

<table>
<thead>
<tr>
<th>Date / Time</th>
<th>Topic / Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday 8/30/19 10:30 am - Noon</td>
<td>Power and Sample Size <a href="#">Register</a></td>
</tr>
<tr>
<td>Friday 9/27/19 10:30 am - Noon</td>
<td>Pilot Study Design and Review <a href="#">Register</a></td>
</tr>
<tr>
<td>Friday 10/25/19 10:30 am - Noon</td>
<td>An Introduction to Multistate Models and Competing Risk Data <a href="#">Register</a></td>
</tr>
<tr>
<td>Friday 11/22/19 10:30 am - Noon</td>
<td>Observational data that make causal inference straightforward <a href="#">Register</a></td>
</tr>
</tbody>
</table>
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

Subscribe

Get NC TraCS events and news delivered to your inbox!

First Name  Last Name

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
Here’s what to know about campus libraries for fall 2021.
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/](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`
RESEARCH HUB SERVICES ARE CAMPUS-WIDE

- Prototyping
- Informatics
- Systematic Reviews
- Design Thinking
- 3D Imaging
- Research Impact Measurement
- Geographic Information Systems
- Data Visualization
- Data Assistance
- Digital Exhibits
GIS and Data, Statistics, Visualization, Digital Humanities, 3D Printing
Research Collaboration

• Finding Funding Opportunities
• Machine Learning for Literature Searching & Systematic Reviews
• Impact Measurement & Data Visualization
The Librarian’s Role in Systematic Reviews

**Planning**
- Guidance on SR process and steps
- Background searching for current and upcoming reviews
- Help with development or refinement of review topic

**Conducting**
- Identification of databases for searches
- Development and execution of searches
- Documentation of search strategies
- Management of search results
- Guidance on methods for study review and data management

**Drafting of literature search description in Methods section**
**Drafting of literature search appendix**
**Guidance and information for PRISMA figure**
**Review of other sections or final draft**

**Reporting**

@UNCLibrary
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!