

Research Resources at UCF

Research In Medical Education Lunch & Learn Series



UCF

Meet your panel of experts...

- **Shalu Gillum, JD, MLS, AHIP**
Head of Public services, Harriet F. Ginsburg Health Sciences Library
- **Natasha Williams, MLIS**
User Services Librarian, Harriet F. Ginsburg Health Sciences Library
- **Anya Andrews, PhD, PMP**
Associate Professor of Medicine and Director of Research Initiatives
- **Elise Dantuma, MBA, MS**
Assistant Director of Research Programs
- **Julia Soulakova, Ph.D.**
Biostatistician, Associate Professor of Medicine
- **Angie Griffin**
Faculty Development Coordinator

LITERATURE REVIEW

Shalu Gillum, JD, MLS, AHIP
Head of Public services

Natasha Williams, MLIS
User Services Librarian

HELP US HELP YOU...

**5 THINGS WE NEED TO KNOW
BEFORE WE START A LITERATURE
SEARCH**

5 THINGS WE NEED TO KNOW FROM YOU

1. **What are some keywords?**
2. **How far back in the literature do you want to search?**
3. **What is your expectation for turnaround time?**
4. **How would you like the information delivered?**
5. **Are you expecting us to find anything??**

SHOW ME THE MONEY: Grant Opportunities for Medical Education and Beyond

Office of the Associate Dean for Research (ADR) Team

“Research in Medical Education Lunch & Learn Series” in collaboration with
“ADR “Faculty Collaboration and Engagement Series (FACES)”

The ADR Team

- **Sampath Parthasarathy, Ph.D., MBA**, Associate Dean for Research, Professor of Medicine, Florida Hospital Chair in Cardiovascular Sciences
- **Anya Andrews, Ph.D., PMP**, Director of Research Initiatives, Associate Professor of Medicine
- **Elise Dantuma, MBA**, Assistant Director of Research Programs
- **Julia Soulakova, Ph.D.**, Biostatistician, Associate Professor of Medicine
- **Jennifer Van Deuren**, Coordinator

Our Capabilities

- Identify relevant funding opportunities (**All**)
- Facilitate research project concept development (**Anya and Dr. Sam**)
- Identify and engage research collaborators, mentors, partners (**All**)
- Provide grantsmanship support (**Anya and Dr. Sam**)
- Statistical support/consulting (**Julia**)
- Proposal review – scientific, technical, editorial (**Anya and Dr. Sam**)
- Facilitate large interdisciplinary grant development efforts (**Anya**)
- Assist with a broad range of administrative tasks at the pre- and post-award stages, including budget development, compliance, application package assembly, award management, and interfacing with the UCF Office of Research and Commercialization (**Elise**)

ADR Website:

<https://med.ucf.edu/research/>

UNIVERSITY OF CENTRAL FLORIDA

UCF SIGN IN + Search UCF

College of Medicine


ABOUT ADMISSIONS ACADEMICS RESEARCH PATIENT CARE GIVING

Research

YOU ARE HERE > College of Medic... > Research

- Research Office Team
- Research Resources
- Medical Education Research
- Biomedical Sciences
- Student Research
 - Student FIRE Program
- Postgraduate Research
- Clinical Research
- Community-Based Research and Outreach
- Research Events
- ADR Newsletter

Welcome to the UCF College of Medicine Research Office!



As the Associate Dean for Research, my goals are to provide directions for the school's research mission, including setting goals for high-quality research, for enhanced grant funding, setting multidisciplinary research, and for developing a global presence for the Medical School's research enterprise. My mission is to provide a nurturing environment and the needed physical and technical resources for the researchers. The UCF College of Medicine research takes pride in an all-inclusive research enterprise that brings together volunteers, students, staff, fellows, and faculty. The Associate Dean for Research is supported in this role by the ADR's Research Committee. The Research Office provides research infrastructure for faculty, pre- and post-doctoral students, and the staff at the UCF College of Medicine. It also provides information regarding the research activities at UCF COM. Our website serves as a one-stop resource for the research community and provides information on research news, upcoming events, collaboration, and funding opportunities. Important links to UCF COM research policies and procedures and links to funding resources are also provided.

— Sampath Parthasarathy, Ph.D., M.B.A., Associate Dean for Research

Federal Funding Opportunities

- www.grants.gov – a federal grant opportunities search engine (open)
- www.fedbizopps.gov – a federal contract opportunities search engine (open)
- National Institutes of Health (NIH) Office of Extramural Research
- <http://grants.nih.gov/funding/index.htm>
- National Science Foundation (NSF) <http://www.nsf.gov/funding/>
- Pivot (www.pivot.cos.com) – a search portal for government and private grant funding sources, including international funding sources and collaborators (subscription is paid by UCF)

State of Florida Funding Opportunities

- [Florida Department of Health](#)

- James & Esther King Biomedical Research Program
- Bankhead-Coley Cancer Research Program
- Ed & Ethel Moore Alzheimer's Disease Research Program

Private Funding Opportunities

- [Foundation Center's Philanthropy News Digest](#) – RFPs submitted by grant makers
- [Foundation Directory Online](#) – search for grant makers nationwide
- [Guidestar](#) – search for foundations using keywords
- [Health Grants Information Center](#) – listing of 100 largest U.S. grant making foundations

Internal Grant Opportunities

- **COM Internal “Seeding” Grants:** up to \$20,000 per project, traditional proposal or “Shark Tank”- style submission options (Currently accepting proposals)
- **UCF In-House Research Grants:** \$7,500 per project, but larger amounts may be considered, managed by the Office of Research and Commercialization (ORC), currently open through Oct 3, 2016
- **Central Florida Health Research Grants** – up to \$20,000 per project, a collaboration between UCF and Florida Hospital managed by the ORC, rolling submission with periodic calls for specific projects
- Matching Funds are available

Opportunities for Young Investigators

- [NIH Research Career Development K-Awards](#)
- [NSF CAREER Awards](#)
- [UC Berkley Database](#) of new and young faculty opportunities

MedEd Grant Opportunities

<u>American Educational Research Association (AERA)</u>	<u>Damon Runyon Cancer Research Foundation</u>
<u>Association of American Medical Colleges</u>	<u>American Medical Association</u>
<u>National Board of Medical Examiners</u>	<u>American Academy of Family Physicians Foundation</u>
<u>Arnold P. Gold Foundation</u>	<u>National Institutes of Health</u>
<u>Institute on Medicine as a Profession</u>	<u>National Library of Medicine</u>
<u>The Spencer Foundation</u>	<u>Agency for Healthcare Research and Quality</u>
<u>Health Resources & Services Administration</u>	<u>Centers for Medicare & Medicaid Services</u>

Thank You!



RESEARCH QUESTIONS AND HYPOTHESES

Julia N. Soulakova

**Office of the Associate Dean for Research
(ADR) Team**

Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What is the
childhood obesity
rate in Orlando,
FL?

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What is the childhood obesity rate in Orlando, FL?

Can be answered with a simple statistic (p)

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

Too simple

Less narrow

Too broad (unfocused)

What is the childhood obesity rate
in Orlando, FL?

How does the
education level of the
parents impact
childhood obesity level
in Orlando, FL?

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What are the effects of tobacco use in the United States?

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

Too simple

What are the effects of tobacco use in the United States?

Too narrow

Too broad (unfocused)

too broad to be discussed in a typical paper

Source: <https://cirt.gcu.edu/research/development/resources/tutorials/question>

Examples of research questions

Too simple

Too narrow

Less broad

What are the effects of tobacco use in the United States?

How does youth tobacco use correlate with academic performance in the US?

Source: <https://cirt.gcu.edu/research/development/resources/tutorials/question>

Examples of research questions

Too simple

Too narrow

Too broad (unfocused)

What health apps for cell phones are currently available?

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

What health apps for cell phones are currently available?

Too simple

Too narrow

Too broad (unfocused)

No need to collect unique data, just a simple online search, no analysis needed

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Examples of research questions

More complex

What health apps for cell phones are currently available?

Too narrow

What are the benefits of a free health app with an e-diary for smoking cessation?

Too broad (unfocused)

Source: <https://cirt.gcu.edu/research/developmentresources/tutorials/question>

Scientific Hypothesis

“A hypothesis is an educated guess or proposition that attempts to explain a set of facts or natural phenomenon. It is used mostly in the field of science, where the scientific method is used to test it”

Read more at <http://examples.yourdictionary.com/examples-of-hypothesis.html#VFLdzRYP28IlggCR.99>

Key Features

- ❑ The goal of a scientific hypothesis is to help explain the focus and direction of the research
- ❑ Should be linked to the RQ

Key Features

A scientific hypothesis should contain the following info:

- the purpose of the research
- what variables are used
- what parameters are used (for a statistical hypothesis)

Example

RQ: How does the education level of the parents impact childhood obesity in Orlando, FL?

Example

RQ: How does the education level of the parents impact childhood obesity in Orlando, FL?

Scientific Hypothesis: Higher education level of parents is associated with lower childhood obesity level (in Orlando, FL)

Example

RQ: How does the education level of the parents impact childhood obesity in Orlando, FL?

Scientific Hypothesis: Higher **education level of parents** is associated with lower **childhood obesity level** (in Orlando, FL)

Scientific Hypothesis: Higher education level of parents is associated with lower childhood obesity level (in Orlando, FL)

Statistical Hypothesis: the rate of obese children in families with lower parental education level is higher than the rate of obese children in families with higher parental education level (in Orlando, FL)

$$p_{lower} > p_{higher}$$

Key variables: obesity indicator (yes, no)
parental education level (high, low)

Statistical Hypothesis: the rate of obese children in families with lower parental education level is higher than the rate of obese children in families with higher parental education level (in Orlando, FL)

Importance

The study design and methodology depends on your RQ and stated hypotheses

Statistical hypotheses are used

- (1) in power analysis to compute and justify the proposed sample size
- (2) to “define” the statistical analyses techniques, e.g., two-sample test for Binomial proportions

THANK YOU!

MANAGING CITATIONS

Tips for a less stressful
research experience

Shalu Gillum, JD, MLS, AHIP
Head of Public services

Natasha Williams, MLIS
User Services Librarian

Tips for a less stressful research experience

Why use EndNote?

- EndNote works with Word to correctly format your references in 100s of citation styles
- Quickly and easily switch from one citation style to another
- Share references with colleagues
- Keep track of references for future projects

Tips for a less stressful research experience

SCENARIO #1

You've already conducted your research and have a LOT of references...but you did NOT use EndNote.

SCENARIO #2

You haven't started your literature search / you are about to ask a librarian to help you start your literature search.

Scenario #1 – References but no Endnote!

Tips:

- Fear not: A librarian can assist you with getting all of your references into EndNote
- [Download and install](#) EndNote onto your desktop and/or laptop (you may need help from IT for an admin password; do this from on campus if using your laptop)
- See a librarian for training on EndNote and/or consult our [EndNote library guide](#)
- If you've already written your manuscript and did not use EndNote and now are having to make edits to your paper, please see a librarian!

Scenario #2 – No references...yet

Tips:

- Get your references into EndNote WHILE conducting your literature search!
- You can import references into EndNote from almost any database, not just PubMed, and even Google Scholar
- [Download and install](#) EndNote onto your desktop and/or laptop (you may need help from IT for an admin password; do this from on campus if using your laptop)
- See a librarian for training on EndNote and/or consult our [EndNote library guide](#)

COPYRIGHT

A few things to keep in mind

Copyright

A few things to keep in mind while doing your research:

- You will likely need permission to reuse an image/chart/graph/survey you found in the literature
- A librarian can assist you with using the Copyright Clearance Center website to obtain permission
- CAVEAT: There *may* be costs involved with reuse with permission

SETTING UP YOUR SURVEY

Faculty in the **Department of Statistics** are willing to collaborate with you in conducting joint research and submitting research proposals.

The screenshot shows the 'Request Form' page on the UCF Statistics website. The page has a dark header with 'UCF STATISTICS' and navigation links: HOME, ABOUT, PEOPLE, UNDERGRADUATE, GRADUATE, RESOURCES, CONSULTING. Below the header is a search bar and breadcrumb navigation: HOME > CONSULTING >. The main content area is titled 'Request Form' and includes a brief instruction: 'To request more information about consulting work, please complete the form below and Dr. Shunpu Zhang will get back to you in approximately two to three days.' The form fields are: Name (First and Last), Type (radio buttons for UCF Faculty, UCF Staff, UCF Graduate Student, UCF Undergraduate Student, and Other), Email (Enter Email and Confirm Email), Phone, Department / Organization, and Research / Consulting Topic Description. A left sidebar contains navigation links: Consulting (Statistical Consulting, Areas of Expertise, Recent Projects, Request Form), Consulting Contact Info (Dr. Shunpu Zhang, Chair, Shunpu.Zhang@ucf.edu), and Contact Us (Statistics, 4000 Central Florida Blvd, P.O. Box 162370, Orlando, FL 32816-2370, P: 407-823-2289, F: 407-823-3930, @stat@ucf.edu).

Statistical Consulting Request Forms can be located on the UCF Statistics webpage: <https://sciences.ucf.edu/statistics/consulting/request-form/>

RESEARCH ADMINISTRATION

Office of the Associate Dean for
Research (ADR) Team

Research Administration

- Various regulations, policies and guidance govern proposal submissions
 - Federal, state, agency and university

- Regulations, policies and guidance relate to (not exhaustive):
 - Budget Preparation
 - Personnel Considerations
 - Compliance Aspects (e.g. export control, facilities security, IRB)
 - Agency allowance/considerations

- COM Office of Research assists with navigating the regulations, policies and guidance as it relates to the specific research project
 - Each project is unique – different considerations need to be reviewed for each project
 - Contact COM Office of Research early in the proposal process

WRITING SUPPORT

- Solicit feedback from peers in your field
- Utilize the Research Paper Peer Review Worksheet

Research Paper Peer Review Worksheet		
Category	Criteria	Notes on Criteria
Problem Statement	<ul style="list-style-type: none">• Purpose is clearly identified and communicated• Type of study clearly identified• Description of study is commensurate with the type of study (i.e. quantitative study includes hypothesis)	
Research Design	<ul style="list-style-type: none">• Sample is clearly identified• Sample is congruent with study purpose• Sampling procedures are described (i.e. random selection, convenience, etc.)• Data collection methods are clearly identified	
Results	<ul style="list-style-type: none">• Results presented are congruent with research question• Analysis process is described (i.e. quantitative stats or qualitative approach)• Provides evidence to support reliability and validity of instruments used	
Conclusions	<ul style="list-style-type: none">• Conclusions and interpretations are supported by data• Limitations or qualifiers are identified• Potential impact of current results are described	
Overall	Clarity of writing Abstract: <ul style="list-style-type: none">• Is organized and succinct• Flows well• Is easily understood	
Overall	Importance of topic <ul style="list-style-type: none">• Relevant to field	
Additional Notes		

Questions?

