

Summer 2024 Family Medicine Research Fellowship

UNC Research Interests and Upcoming Projects



SCHOOL OF MEDICINE
Family Medicine

Faculty	Areas of Interest
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Projects on the Horizon - Summer 2024</p>	<p><u>Nailah Adams</u></p> <p><u>My Movement:</u> The purpose of this pilot study is to evaluate attitudes on sports bras' accessibility/size/fit and physical activity among adolescent and young adult women, and to develop a program that will provide sports bras to high school-aged females in Durham and Orange County to increase participation in physical activity and improve health and wellness.</p> <p><u>The Female Athlete Triad in Underrepresented Minority Collegiate Athletes:</u> The purpose of this pilot study is to determine the awareness of the Female Athlete Triad among under-represented minority collegiate athletes at 4 HBCUs in North Carolina.</p>
	<p><u>Brianna Lombardi</u></p> <p>The University of North Carolina at Chapel Hill Behavioral Health Workforce Research Center (UNC-BHWRC) seeks to strengthen the current and future behavioral health workforce through exploration of the disparities that perpetuate inequities in behavioral health treatment, access, and quality. The UNC-BHWRC is funded by the Health Resources and Services Administration (HRSA) and the Substance Abuse and Mental Health Services Administration (SAMHSA) to conduct timely and policy-relevant projects that address emerging issues and longstanding challenges to quality behavioral health services. Each year the UNC-BHWRC conducts eight research studies, summer research fellows can participate in studies such as:</p> <ol style="list-style-type: none"> 1) <u>Variation in Psychiatric Collaborative Care Management Codes by Populations: Understanding Extent of Use and for Whom:</u> This study will use MarketScan, a data source of commercially insured individuals in the U.S., to observe the rate of Psychiatric Collaborative Care Management (CoCM) code use between 2018 and 2021 and compare use across patient's age, gender, diagnosis, and provider type. Tasks may include collecting and analyzing data as well as synthesizing findings for a national audience. 2) <u>Advanced Behavioral Health Training in Geriatric Fellowships:</u> This study will explore the distribution of geriatric fellowships by physician specialty (family medicine, internal medicine, and psychiatry) and identify barriers and facilitators to enhance behavioral health content within geriatric fellowships through surveying geriatric fellowship program directors. Tasks may include data collection, data analysis, and survey development. <p>Fellows will also have the opportunity to connect on health workforce research being conducted at Shep's including issues of workplace violence in health care settings, teams delivering social care interventions, and distribution issues of health care services in the State and nationally.</p>
<p><u>Chineme Enyioha</u></p>	<p><u>Development of prototype mobile health intervention for smoking cessation culturally adapted for African American smokers.</u></p> <ul style="list-style-type: none"> - Assist with recruitment of members of an advisory board for the app development - Work with the team to create a hypothetical intervention based on results and conduct a discrete choice experiment with 1000 participants online. <p>Student may have opportunities to work on manuscript development as well as present findings at conferences.</p>

<p><u>Modjolie Moore</u></p>	<p><u>NC Farmworkers Health Program</u></p> <ul style="list-style-type: none"> Request for 1 student interested in local immersion with a dynamic experienced care management program which has collaborated for the past 14 years with UNC Family Medicine in bringing care to migrant agricultural workers throughout the counties of Johnston, Sampson, Duplin, and beyond. This summer we will continue to support priority needs and QI projects to help enhance care operations and quality for our patients. Past projects included: 1) Structural operational support for our EHR use and care delivery to bring digital inclusion and enhanced digital health tools to our patients 2) Enhance clinical operations and work flow to improve clinical efficiency for our mobile clinic team 3) Clinical care coordination and result management for our patients delivered in a linguistically and culturally appropriate manner. 4) Office of Rural NC Farmworker Health Program Data and Evaluation team support (ie Facilitating Behavioral health focus groups) Students should be functional in Spanish language to communicate and collaborate with our team who communicates predominantly in Spanish. Would require driving to Dunn, NC and to work with our outreach team on community identified needs 1-2 times per week during the summer Would require being present at mobile clinic on Tuesday nights to support the UNC Mobile Clinic team QI projects frequently will result in presentations, posters, and conference attendance.
<p><u>Sapna Varkey</u></p>	<p><u>Language and Disability Access Program</u></p> <p>The purpose of this project is to develop and enhance didactic curricula and training experiences for our learners to provide high-quality, accessible care to individuals with limited English proficiency (LEP) and those with disability. This HRSA grant-funded project will create/coordinate LEP and Disability electives for Family Medicine Residents and <u>medical student summer fellow responsibilities may include:</u></p> <ol style="list-style-type: none"> Help develop and implement assessment tools for HRSA grant reporting – this is a skill that connects grant reporting requirements to assessment efforts for the research team. Support the new Curriculum Coordinator as they organize and structure work plan for the grant. Clean and analyze resident and medical student data about immersion experiences, including CAMPOS data. Involvement in the Community Advisory Board Involvement in Resident Assessments and post-graduate assessment
<p><u>Tommy Koonce</u></p>	<p><u>Primary Care Training Enhancement Data Collection</u></p> <p>Over the past 5 years, the UNC Faculty Development Fellowship (FDF) has trained 18 medical educators who practice in rural settings. This summer project will involve working with the Faculty Development faculty leaders to design and administer a survey and follow up evaluation of these 18 fellows, collect data, analyze compared to other fellows, and seek publication in journals focused on such areas as family medicine, rural health, and faculty development.</p>
<p><u>Ryan Paulus</u></p>	<p><u>Point-of-Care Ultrasound (POCUS):</u></p> <p>POCUS is becoming the standard of care and changes care at the bedside. As with anything new in medicine, a lot of research and scholarly work is needed to set guidelines and standards. I have several projects going on and new opportunities arising every couple of months.</p> <p>Last summer we started the CAROLINIAN Study (CARdiOvascular uLtrasound screenING In fAmily mediciNe) which is evaluating the ability of family medicine docs to screen for heart failure and AAA screening. We likely will be done with the heart failure component by the summer, but we will need to collect the AAA data. The post listed below with John Doughton, Phil Sloane, and me will be working with us only on that component and will mainly include data collection. See the separate post below.</p> <p>Other currently active projects:</p> <ol style="list-style-type: none"> National Point-of-Care Ultrasound Needs Assessment

		<p>2. Studying the effectiveness of the STFM Family Medicine POCUS Educators Certificate Program</p> <ol style="list-style-type: none"> a. I founded and currently lead the first family medicine focused POCUS certification program. We partnered with STFM to do this. We will be doing a pilot study the first year and then will be doing a larger evaluation the following years. <p>3. Last year a student started a literature review about POCUS application in OB, I am looking for someone to pick up on that project.</p> <p>While above are active projects, we can always look at creating new projects with some examples listed below.</p> <ol style="list-style-type: none"> 1. <u>Manuscript Submission to a Journal:</u> <ol style="list-style-type: none"> a. Clinical POCUS Application <ol style="list-style-type: none"> i. We will first find a topic in POCUS (i.e. tips on using POCUS, how to implement POCUS in the primary care setting, review of POCUS application, etc). ii. We will then do a literature review and then write the manuscript after we select our targeted journal (most likely Journal of Family Practice, AAFP, or other family medicine journal). b. POCUS Education: <ol style="list-style-type: none"> i. Perceptions of POCUS use among family medicine residents in NC ii. Student perceptions of POCUS 2. <u>Poster Presentation:</u> NCAFP or AAFP conferences <ol style="list-style-type: none"> a. Used the above ideas for a poster b. Collect data from medical school or residency curriculum 3. <u>Case Report:</u> write a case about how POCUS changed management <ol style="list-style-type: none"> a. During you time shadowing with me, we can write a case on how POCUS changed management prior to any test b. Can work to submit a case to a journal or a poster presentation <p>I am very flexible based on your interest. My goal for you this summer is to become a better researcher, learn more about POCUS and how awesome it is, and hopefully come up with a deliverable for your CV!</p>
	<p><u>Phil Sloane</u> & <u>John Doughton</u> & <u>Ryan Paulus</u></p>	<p><u>Study of the reliability of point-of-care ultrasound (POCUS) in rural primary care to successfully screen for abdominal aortic aneurysm</u></p> <p>Background: The US Preventive Services Task Force recommends that men aged 60+ with a smoking history be screened for abdominal aortic aneurysm, a potentially life-threatening condition. However, rural seniors often fail to be screened, in part because of the hassle of going to a medical center for a formal ultrasound examination. The purpose of this research therefore, is to gather preliminary data comparing POCUS with formal ultrasound testing. This study will be conducted in two rural clinics by UNC family medicine faculty who work there.</p> <p>The study has IRB approval and a small grant from the Department.</p> <p>Student Role: Positions are available for one or two students to coordinate data collection for the study, working with faculty in the clinic. This will provide the student with extensive clinical contact and experience participating in potentially groundbreaking research.</p> <p>Requirements: Faculty are busy and drawn in many directions, so the student(s) who work on this study should be organized and willing to provide leadership, with backup from the study coordinators and mentor.</p>
	<p><u>Venus Standard</u></p>	<p><u>Lived Experience Accessible Doula (LEAD)</u></p> <p>This project is aimed at improving birth outcomes of Black women with the expansion and extensive training of Doulas. The research student(s) will assist with data collection and dissemination of results from the first year of this multiyear project funded by the Duke Endowment.</p>

	<u>Riley Smith</u>	Family Medicine Transgender Health Program: Student will work with Family Medicine faculty and residents to improve care for Transgender and Nonbinary patients at the Family Medicine Center. Project will include reviewing quality metrics and care gaps for Transgender patients, developing patient and provider educational resources, and engaging in community outreach. Projects may also be adapted based on the clinical interests of the student.
	<u>Leah Ranney</u>	<p>Strengthening Cigar Warnings to Prevent Adolescent Use The research study seeks to improve the effectiveness of warnings for little cigars and cigarillos (LCCs) among youth who currently use, have ever used, or are susceptible to using LCCs, especially LGBT and African American youth. Scientific findings will provide novel and necessary evidence regarding the effectiveness of existing LCC warnings and will inform efforts to strengthen warnings through larger warning size and added images. Ultimately, this research can be used to reduce LCC use among youth and lessen tobacco-related disparities. We are in the final year of this project and need assistance with dissemination of findings for the Aims listed below.</p> <p>Aim 2 will experimentally examine whether LCC warning size (30% vs 50%) and type (text-only vs. text + image) affect perceived message effectiveness of LCC warnings among a separate online sample of 500 youth. Aim 3, we will use a randomized controlled trial among 900 youth to test whether the most effective LCC warnings from Aim 2 reduce willingness to use LCCs against the text-only 30% size FDA-mandated LCC warnings and a non-warning control condition. Our Aim 3 trial will be delivered to youth through an online survey link embedded in text messages.</p> <p>Student responsibilities will include assistance with framing paper ideas, literature reviews, paper outlines, and assistance with writing the Intro and discussion sections.</p>
	<u>Justin Byron</u>	<p>Dual use of cigarettes and e-cigarettes Many people who tried to quit smoking by using e-cigarettes find themselves now addicted to both. As part of an NIH grant, the student will help with the development and execution of a pilot randomized controlled trial to test the impact of simulated social media communication campaign messages sent to smartphones on cessation intentions and behavior. There is an opportunity for tailoring the role to student interests and there may be an opportunity for manuscript co-authorship.</p>
	<u>Evan Ashkin</u>	<p>The North Carolina Formerly Incarcerated Transition (NC FIT) Program--a partnership between UNC Family Medicine, the NC Department of Adult Corrections, federally qualified health centers, and local reentry councils--connects recently incarcerated individuals who have a chronic disease, mental illness and/or substance use disorder with appropriate healthcare services and other reentry resources. To evaluate the FIT Program, the research team has conducted interviews with program participants, program staff, and medical providers who care for formerly incarcerated individuals. We are looking for a summer research fellow with experience in qualitative analysis who is interested in supporting the analysis of this interview data. Specifically, it is our hope that the research fellow will analyze interview data related to healthcare provided during incarceration and contribute to a manuscript with this data for publication.</p>

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