

Arrianna M. Planey, Ph.D

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Department of Health Policy and Management
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Cecil G. Sheps Center for Health Services Research
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PERSONAL

Research Interests

- Healthcare Access
- GIS & Spatial Analysis
- Social Epidemiology
- Health and Healthcare Equity
- Social Determinants of Health
- Patient-Centered Outcomes Research
- Medicare and Medicaid
- Rural Health

Teaching Interests

- Health and Medical Geography
- Geographic Information Science (GIS)
- Spatial Analysis
- Social Epidemiology
- Health Workforce
- Health Care Access
- Environments and Health
- Racism & Health Disparities

EDUCATION

- 2020 Ph.D, **University of Illinois, Urbana-Champaign**
Geography & Geographic Information Science
Dissertation Title: Hearing Health Care In The United States:
A Multi-Scale Spatial & Political Economic Analysis Of Health Care Policy and Access to Audiology Services
- 2013 M.A., **University of Chicago**
Social Sciences (Concentration: Political Science)
- 2009 B.A., **University of California, Berkeley**
History

ACADEMIC EXPERIENCE

- July 2020- Present **Assistant Professor**
Department of Health Policy and Management, Gillings School of Global Public Health,
University of North Carolina at Chapel Hill
- 2020 – 2025 **Research Fellow**
Cecil G. Sheps Center for Health Services Research, University of North Carolina at Chapel Hill
- 2017 – 2020 **Pre-Doctoral Fellow**
Health Policy Research Scholars, Robert Wood Johnson Foundation
- 2019 – 2020 **Graduate Instructor**
University of Illinois at Urbana Champaign, College of Liberal Arts and Sciences
Department of Geography and Geographic Information Science
- 2016 – 2020 **Graduate Research Assistant**

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University of Illinois at Urbana Champaign, College of Agricultural, Consumer, & Environmental Sciences

Department of Human Development and Family Studies

PRIOR WORK EXPERIENCE

- 2012-2013 **Program Associate – Intern | Heartland Alliance International | Chicago, IL**
- Produced training materials to help resettlement agencies better serve LGBTI refugees and asylees. After the trainings, up to 70% of participants reported greater confidence in their ability to serve LGBT refugees and refugee survivors of torture.
 - Created curricula and training materials for schools and agencies addressing bullying of LGBTI refugee and asylee youth.
 - Co-ordinated and planned the Clinical Institute at the Kovler Center for the Treatment of Survivors of Torture for researchers and practitioners in the treatment and care of refugee survivors of torture.
 - Authored a white paper on families of choice among refugees (submitted to the *Journal of Torture*)
 - Employed GIS to map NGO worksites on the continent of Africa (DRC, Cameroon, Nigeria Egypt, Sudan, South Sudan) and in the Dominican Republic
- 2010-2014 **Consultant – Project Manager | Free Generation International (FGI)**
- Coordinated with an interdisciplinary team to create a curriculum and companion student workbook for secondary-level African students on human trafficking.
 - Oversaw the creation of an access-to-justice GIS-based DataMap that links legal practitioners and researchers to anti-trafficking laws passed by African countries, with further information on enforcement, prosecution, and precedents.
- 2010-2012 **Co-Director – Homeless Not Powerless**
- Served as Co-Director, fostering partnerships with homeless shelters, soup kitchens, churches and other partner organizations that serve homeless populations in the southeast region of the United States.
 - Co-organized a political education campaign to empower homeless community members by registering them to vote, reinstating their right to vote and connecting them to local politicians.
 - Conducted voter registration drives in homeless shelters, soup kitchens, jails, parks and other venues.
 - Managed the day-to-day tasks of updating contacts and donor databases, in addition to coordinating meetings, and writing, editing and managing content for the website.

ACADEMIC HONORS AND AWARDS

- 2020 Conference Travel Award, Health Policy Research Scholars, *Robert Wood Johnson Foundation*
- 2019 Peter Gould Student Paper Award, *AAG Health and Medical Geography Specialty Group*
- 2018 AAG-IGU Travel Grant (NSF-funded), International Geographical Union (IGU)- Canadian Association of Geographers (CAG) Joint Meeting, \$1,400
- 2017 Second Place, Graduate Student Poster, School of Earth, Society, & Environment (SESE) Research Review. University of Illinois at Urbana-Champaign

BIBLIOGRAPHY

Refereed Articles

**indicates publications co-authored with students/mentees

1. Bigman C.A., Smith M., Williamson L.D., **Planey A.M.**, & McNeil Smith S. (2019). Selective sharing on social media: Examining the effects of race-related disparate impact frames on intentions to retransmit news stories among U.S. college students. *New Media and Society*. 21(11–12), 2691–2709.
<https://doi.org/10.1177/1461444819856574>
2. **Planey AM.** (2019). Audiology Service Accessibility & the Health Policy Landscape. *The Hearing Journal*. 72(4). Pp 11,13. DOI: 10.1097/01.HJ.0000557744.28152.45
3. **Planey A.M.**, McNeil Smith S., Moore S., & Walker T. (2019). Barriers and Facilitators to Mental Health Help-Seeking among African American Youth and their Families: A Systematic Review Study. *Children and Youth Services Review*. 101, 190-200. DOI: <https://doi.org/10.1016/j.childyouth.2019.04.001>
4. **Planey A.M.** (2019). Audiologist Availability and Supply in the United States: A Multi-Scale Spatial and Political Economic Analysis. *Social Science and Medicine*. 222. 216-224. DOI: <https://doi.org/10.1016/j.socscimed.2019.01.015>
5. Wong, S., Preston, V, **Planey, A.M.**, and McLafferty, S.L. (2020). Disability, Wages, and Commuting in New York. *Journal of Transport Geography*. 87. <https://doi.org/10.1016/j.jtrangeo.2020.102818>
6. Niles M, Asiodu I.V., Perry J.C., Julian Z, Lyndon A., McLemore M.R., **Planey A.M.**, Scott K.A., Vedam S. (2020). Reflecting on Equity in Perinatal Care During a Pandemic. *Health Equity*. 4(1). Jul 2020.330-333.
<http://doi.org/10.1089/heq.2020.0022>
7. Turner N.A., Pan W., Martinez-Bianchi, V.S., Maradiaga G.M., **Planey A.M.**, Woods C.W., Lantos P.M. (2021). Racial, Ethnic, and Geographic Disparities in Novel Coronavirus (Severe Acute Respiratory Syndrome Coronavirus 2) Test Positivity in North Carolina, *Open Forum Infectious Diseases*, 8(1), January 2021, ofaa413, <https://doi.org/10.1093/ofid/ofaa413>
8. Ray K.N., Yahner K.; Bey J., Martin K., **Planey A.M.**, Culyba A.J., Miller E. (2021). Understanding variation in non-urgent pediatric emergency department use in communities with concentrated disadvantage. *Health Affairs*. 40(1). DOI: 10.1377/hlthaff.2020.00675
9. Raynor E, Holmes C, Crowson M, Peskoe S, **Planey A.M.**, Lantos PM. Loss to follow up of failed hearing screen and missed opportunities to detect congenital cytomegalovirus are better identified with the implementation of a new electronic health record system protocol. *Int J Pediatr Otorhinolaryngol*. 2021 Sep;148:110818. doi: 10.1016/j.ijporl.2021.110818. Epub 2021 Jun 25. PMID: 34198229.
10. Bigman, C.A., **Planey, A.M.**, Smith, M.A., Williamson, L.W., and McNeil Smith, S."There will be screen caps': The role of digital documentation and platform collapse in propagation of racial discourse. forthcoming at *Information, Communication, and Society*. <http://dx.doi.org/10.1080/1369118X.2022.2041698>
11. ****Malone T.L., Planey A.M., Bozovich L.B., Holmes G.M.** The Economic Effects of Rural Hospital Closures. *Health Services Research*. Published online March 21, 2022.
<https://onlinelibrary.wiley.com/doi/10.1111/1475-6773.13965>
12. ****Planey, A.M.**, Grady. S. Fetaw, R., & McLafferty, S.L., Spaces of Segregation and Health: Complex Associations for Black Immigrant Mothers in New York City. Forthcoming at *Journal of Urban Health*. DOI: 10.1007/s11524-022-00634-6

Refereed Other Products of Scholarship

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1. Knocke K, Malone T, Thomas S, Friedman H.R., **Planey AM.** (2021). COVID -19 disproportionately impacts more vulnerable rural hospitals and communities. *Health Serv Res.* 2021;56(S2):84-84. doi:10.1111/1475-6773.13840

Published Reports/White Papers/Research Briefs

1. **Planey A.M.**, Perry J.R., Kent E.E., Thomas S.R., Friedman H., Randolph R.K., Homes G.M. Since 1990, Rural Hospital Closures Have Increasingly Occurred in Counties that Are More Urbanized, Diverse and Economically Unequal. Findings Brief. NC Rural Health Research Program, UNC Sheps Center. February 2022.

Book Reviews

1. **Planey, A.M.** Chandra L. Ford, Derek M. Griffith, Marino A. Bruce, and Keon L. Gilbert (eds.). 2019. Racism: Science & Tools for the Public Health Professional. Washington, D.C.: American Public Health Association Press, 2019. \$75.00. Paperback. pp. 583. ISBN: 978-0-87553-303-2. *World Medical & Health Policy*. DOI: 10.1002/wmh3.379

Articles Under Review

1. Cartus A.R., Goedel W.C., Hallowell B.D., Allen B., Pratty C., **Planey A.M.**, Ahern J., Cerdá M., Marshall B.D.L. Conceptualizing divergence in individual- and neighborhood-level fatal overdose burden: A population-based statewide study. Under review at *Rhode Island Medical Journal*
2. Knocke K, Malone T, Thomas S, Friedman H.R., **Planey A.M.**, Pink G., & Holmes G.M. (2021). COVID -19 disproportionately impacts more vulnerable rural hospitals and communities. Under Review at *Health Serv Res.*
3. **Planey A.M.**, Wong S., Planey D.A., and Ko M.J. (Applied) Geography, Policy, & Time: Whither health and medical geography?. R&R under Review at *Space and Polity*
4. **Planey A.M.** Thomas S.R., Friedman H., Kent E, Holmes G.M. Rural Hospital Closures from the 1990s to 2020: A Scoping Review. R&R under review at the *Journal of Rural Health*
5. Kumfer, W., Harmon, K.J., **Planey, A.M.**, Ma, C., Hancock, K., Combs, T.S., and Radwan, R. Analyzing the Effect of COVID-19 and Resulting Executive Orders on Mobility in North Carolina Using Multiple Datasets. Under review at *Transportation Research Part A*
6. **Planey, A.M.**, Planey, D.A., Wong, S., McLafferty, S.L., and Ko, M. Rural Hospital Closures and Racial/Ethnic Inequities in Travel Times to Access Acute Care in the Rural U.S. South, 2007-2018. R&R under review at *Milbank Quarterly*
7. Bozkurt B., **Planey A.M.**, Aijaz, M., Cilenti, D., Shea C., Khairat S. Rural-Urban Differences in Maternal Visits and Care Content During the Pre-Pregnancy, Prenatal, and Postpartum Periods, 2016-2018. Under review at *Health Affairs*

Manuscripts in Preparation

8. **Planey A.M.**, Bozkurt B., Aijaz M., Weinstein J., Khairat S., Shea C.M. Telehealth Use by Pregnancy Stage among Commercially Insured Patients, 2016-2019. To be submitted to *Journal of Telemedicine & Telecare*
9. **Planey A.M.**, Wong S, Planey DA., McLafferty S.L., and Ko M.J. Longer Travel Times to Acute Hospitals are Associated with Lower Likelihood of Routine Care Receipt among Rural-Dwelling Adults in the U.S. South. To be submitted to *Journal of Health Care for the Poor and Underserved*
10. **Planey, A.M.** & McLafferty, S.L.- Co-location of Audiologists with Referring Primary Care Providers. To be submitted to *Health and Place*
11. **Planey, A.M.**, Conceptual Model of Access to Audiologist Services – Extending Levesque et al (2013) Model. To be submitted to *International Journal for Equity in Health*

12. **Planey, A.M.**, & Okoye, S.M. Associations between Fall Mortality Among Adults Age ≥ 65 and Medicare Expenditures on Hearing and Balance Disorder Treatment. To be submitted to...

Refereed Unpublished Oral Presentations

++ indicates senior author status; ** indicates pandemic-related cancellation

1. Knocke K., Malone T., Thomas S.R., Friedman H., **Planey A.M.**++ COVID-19 Disproportionately Impacts More Vulnerable Rural Hospitals and Communities. AcademyHealth Annual Research Meeting (Virtual), July 2021
2. **Planey, A.M.** Intersectionality: Measurement within Health Services Research. American Association of Geographers, Annual Meeting (Virtual). April 2021
3. ****Planey, A.M.**, Planey, D.A., Wong, S., McLafferty, S.L., and Ko, M. Rural Hospital Closures in the US South: Implications for Spatial Access to Acute Care. American Association of Geographers, Annual Meeting (Virtual). April 2020
4. **Planey, A.M.** Mapping and Analyzing Health Care Provider Interdependencies & Resulting Access Disparities By Race and Class: The Case of Primary Care Physicians and Audiologists in Chicagoland. International Medical Geography Symposium (Queenstown, New Zealand), July 2019
5. **Planey, A.M.** Audiologist Availability and Access in the United States: A Multi-Scale Spatial and Political Economic Analysis. American Association of Geographers, Annual Meeting (Washington, D.C.), April 2019
 - *Winner - Peter Gould Student Paper Award*
6. **Planey, A.M.** Mapping and Analyzing Health Care Provider Interdependencies: The Case of Primary Care Physicians and Audiologists in Chicagoland. American Association of Geographers (AAG) Annual Meeting of the West Lakes Division (LaCrosse, WI), November 2018
7. **Planey A.M.** Mapping and Analyzing Health Care Provider Interdependencies: The Case of Primary Care Physicians and Audiologists in Chicagoland. Canadian Association of Geographers Meeting. (Quebec City, Quebec, Canada), August 2018
8. **Planey, A.M.** "Audiologist Availability and Access in the United States: A Multi-Scale Spatial and Political Economic Analysis." American Association of Geographers, Annual Meeting (New Orleans, LA), April 2018
9. **Planey, A.M.** "Structuring Access to Audiological Services: A Political Economic Analysis of the Healthcare Industry in the U.S." American Association of Geographers (AAG) Annual Meeting of the West and East Lakes Division (Marquette, MI), October 2016
 - *3rd place winner in the PhD Paper Presentation Contest*
10. McNeil Smith, S., Moore, S., Planey, A.M. & Walker, T. "Exploring the Role of Faith and Spirituality in Mental Health Help-Seeking Attitudes and Behaviors Among African American College Students." Paper presented at the Dennis H. May Conference on Diversity Issues and the Role of Counseling Centers (Urbana, IL), September 2016

Poster Presentations

1. **Planey, A.M.**, Planey, D.A., Wong, S., Winata, F. & Ko, M. Longer Travel Times to Acute Hospitals Are Associated with Lower Likelihood of Preventive Care and Cancer Screening Receipt Among Rural-Dwelling Adults in the U.S. South. AcademyHealth ARM. Washington, D.C., June 2022.
2. ****Malone T.L., Planey A.M., Bozovich L.B., Holmes G.M.** The Economic Effects of Rural Hospital Closures. National Rural Health Association (NRHA) Annual Conference. Albuquerque, NM. May 2022.
3. **Planey, A.M.** & Okoye S.M. Exploring Spatial Variation in the Association between Medicare Expenditures on Hearing Disorders and Fall Mortality Among Older Adult. AcademyHealth Annual Research Meeting (Virtual), June 2021

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4. **Planey, A.M.**, Planey, D.A., Wong, S., McLafferty, S.L., and Ko, M. Rural Hospital Closures in the US South: Implications for Spatial Access to Acute Care. AcademyHealth Annual Research Meeting (Virtual), July 2020
5. **Planey, A.M.** *Mapping and Analyzing Health Care Provider Interdependencies & Resulting Access Disparities By Race and Class: The Case of Primary Care Physicians and Audiologists in Chicagoland.* AcademyHealth Annual Research Meeting (Washington, D.C), June 2019
6. **Planey, A.M.** *"The Spatial Distribution of Hearing Healthcare Providers in the U.S."* American Association of Geographers, Annual Meeting (Boston, MA), April 2017.
7. **Planey, A.M.** *"Hearing Healthcare Access in the United States: A Spatial and Political Economic Analysis."* School of Earth, Society, & Environment (SESE) Research Review. University of Illinois at Urbana-Champaign. February 2017.

Invited Panels, Presentations, & Lectures

1. Brindis, C. **Planey, A.M.**, Baker, K. Coffman, J. & Shaikh A. Measuring the Impact of Policy Strategies. AcademyHealth ARM. Washington, D.C., June 2022.
2. Barlow, J., Fashaw-Walters, S., Lewis, M., & **Planey, A.M.** Culturally Responsive Research Methods. AcademyHealth ARM. Washington, D.C., June 2022.
3. Amlani A.M., Davis K., James, J.F., **Planey, A.M.**, Rogers E. *Addressing Challenges in Patient Access to Hearing Health Care.* Academy of Doctors of Audiology Annual Conference. October 2021.
4. **Planey, A.M.** Intersectionality & Time: Thinking Spatially & Relationally About Health Inequities. University of North Carolina Chapel Hill, Geography Colloquium Series. October 2021.
5. **Planey, A.M.** *Bridging the Divide: Access Barriers Faced by Patients with Communication Disorders & How Clinicians Can Address Them.* Kennedy Krieger Institute, Room to Grow Conference. September 2021.
6. **Planey, A.M.** *Intersectionality: Measurement within Health Services Research.* Intersectionality and Public Health Symposium. University of Chicago (virtual). May 2021.
7. Feldman, J., **Planey, A.M.**, Ramiah K. *Reckoning with Structural Racism: How do We Take Action Personally and Organizationally?.* Panel. Robert Wood Johnson Foundation, Equity Learning Lab Convening (virtual). April 2021.
8. **Planey, A.M.** *Healthcare Disparities, Disability, & COVID-19.* Fordham University, Fordham Disability Studies Program and the Global Healthcare Innovation Management Center Guest Lecture (virtual). February 2021.
9. **Planey, A.M.** *The Importance of Place & Scale in Health Services Research.* Boston University School of Public Health (BUSPH) Health Law, Policy & Management Visiting Professor Seminar (virtual).. December 2020.
10. **Planey, A.M.** *Nursing Homes Amid the COVID-19 pandemic.* Eminence Public Health Conference (virtual). November 2020
11. **Planey, A.M.** *GIS & Spatial Thinking for Public Health: Potential, Pitfalls, & Considerations.* Indiana University Bloomington, GIS Day Keynote (virtual). November 2020.
12. Immergluck D., Mellander C, Miller H., Nathan M., Parnell S., **Planey A.M.**, Williams S. *Post-Pandemic City Futures.* Newcastle University, Spatial Analytics + Data Seminar Series. October 2020.
13. Carpiano, R., and **Planey, A.M.**, *„Effective social media use and online platforms for interdisciplinary scholars.“* Interdisciplinary Association for Population Health Science Annual Meeting. October 2020.
14. **Planey, A.M.**, *“Matching Spatial Methods and Theory in Public Health Research.”* Seminar Talk. Columbia University, Department of Epidemiology, Social and Spatial Epidemiology Unit Weekly Seminar. September 2020.
15. **Planey, A.M.** *„Spaces of Segregation & Health: Complex Associations for Black Immigrant Mothers in New York City,”* Lecture. UNC Chapel Hill, OB/GYN IDEA Lecture Series. August 2020.
16. **Planey, A.M.** *„Changing Patterns of Spatial Accessibility of Hospital-Based Care in the Rural South, 2007-2018,”* Paper Presentation. Chicago Public Health GIS, monthly meeting. July 2020

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17. **Keil R., Planey, A.M., Ren X., and Kaup B., "Cities and Infectious Disease: Urban Affairs in the Age of Outbreak." Panel. Urban Affairs Association 50th Anniversary Conference. (Washington, DC), April 2020
18. Hamraie, A, England, M., Donovan, C., and Planey, A.M. "Critical Approaches to Disability." Panel. American Association of Geographers, Annual Meeting (Washington, DC), April 2019
19. Planey, A.M., and Irfan, A. "Environments and Health: Gaps and Opportunities in Public Health Policy Research and Practice." Roundtable Talk at the Robert Wood Johnson Foundation Annual Leadership Institute, Indianapolis, IN. January 2019
20. Kosanic, S., Chouinard, V., Planey, A.M., Hansen, N., and Wadhwa, V. "Researchers with Disabilities, and the Obstacles They Face in Academia." Panel. American Association of Geographers, Annual Meeting (New Orleans, LA), April 2018

TEACHING EXPERIENCE

Gillings School of Global Public Health, University of North Carolina, Chapel Hill Department of Health Policy and Management (HPM)

HPM 756 - Conceptualizing & Measuring Access to Care

- Course for MSPH, PhD, and DrPH students
- Emphasizes conceptual frameworks and approaches to measuring access to healthcare, including Geographic Information Systems and spatial analysis

University of Illinois at Urbana Champaign Department of Geography and Geographic Information Science (GGIS)

GEOG 438: Geography of Health Care

- Spring 2020
- 25 students enrolled
- Selected for *List of Teachers Rated Excellent by their Students*

GRANTS & CONTRACTS, & FELLOWSHIPS

Grants and Contracts (Current)

2021-2023 3R01CA240092-03S1 (PIs: Wheeler & Rosenstein)

Lineberger Comprehensive Cancer Center

Source: National Cancer Institute (NCI)

Role: PI (75%)

Research Objectives: The proposed supplemental project leverages the existing survey design for Lessening the Impact of Financial Toxicity (LIFT) Study (5R01CA240092-02) to examine the effects of financial toxicity on healthcare help-seeking and care utilization among rural cancer patients. Whereas the objective of the parent grant is to evaluate the implementation and effectiveness of FN within rural oncology settings, the proposed supplemental project leverages the research infrastructure developed by the team to further map out the effects of FT on healthcare help-seeking among rural cancer survivors across five (5) intervention sites in rural North Carolina.

2020-2024 6 U3GRH40003-01-01 (PI: Ward)

Rural Telehealth Research Center

Source: Federal Office of Rural Health Policy (FORHP), Health Resources and Services Administration (HRSA)

Role: Co-I (10% effort)

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Research Objectives: The Rural Telehealth Health Research Center conducts research to advance evidence in the area of telehealth, especially in rural applications. The Center is comprised of three research partners: University of Iowa, University of North Carolina-Chapel Hill, and University of Southern Maine.

2020-2027 No Number Given (PI: Domino)
North Carolina Medicaid Reform Demonstration: Medicaid 1115 Waiver Evaluation
Source: North Carolina Department of Health and Human Services (NCHHS)
Role: Co-I (5% effort)
Research Objectives: The purpose of this project is to evaluate the North Carolina Medicaid 1115 waiver, including both quantitative and qualitative analyses.

Completed Grants & Contracts

2020-2021 6 U1CRH03714-16-02 (PI: Holmes)
Comparison of rural hospital closures and the communities served, 1990-2020
UNC Cecil G. Sheps Center for Health Services Research
Source: Federal Office of Rural Health Policy (FORHP), Health Resources and Services Administration (HRSA)
Role: Co-I (20% effort)
Research Objectives: To examine rural hospital closures over three periods of time: 1990-1998, 1999-2008, and 2009-2020 to profile (1) the closed rural hospital financial characteristics; (2) demographic, socioeconomic, and geographic characteristics of communities where rural hospitals have closed; and to (3) health status and healthcare services and resources available within communities where rural hospitals have closed.

2020- 2021 No Number Given (PI: Radwan)
North Carolina COVID-19 Mobility and Health Impacts Study, UNC Highway Safety Research Center
Source: NC Policy Collaboratory
Role: Co-I (20% effort)
Research objectives: To examine the effects of public health emergency declarations and shelter-in-place orders on population mobility in the state of North Carolina, in the first 9 months of the COVID-19 pandemic. Thereafter, we examined the association between trends in population mobility and COVID-19 incidence and prevalence across the rural-urban continuum. We found persistent rural-urban disparities in population mobility and COVID-19 prevalence and mortality.

2019-2020 Hearing Health Care In The United States: A Multi-Scale Spatial & Political Economic Analysis Of Health Care Policy and Access to Audiology Services
Source: Robert Wood Johnson Foundation, Health Policy Research Scholars Dissertation Award
Role: PI
Amount: \$1500
Research objectives: To apply statistical and spatial analytic approaches to examine the geographic distribution of audiologists and subsequent effects on older adults' access to care. Focusing on how their scope of practice and autonomy as professionals are constrained by health policy at the federal and state levels and the broader political economy of inter-professional practice in health care, all of which hinge on the classification of audiologists as non-medical "non-physician" care providers.

Grants and Contracts (Under Review)

2022-2025 None Given Yet (PI: Planey)

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Title: Meds & Eds: Evaluating (in)equity in the Economic and Community Impacts of Academic Medical Centers on Small and Mid-sized Metros

Source: Robert Wood Johnson Foundation

Role: PI (20%)

Amount: \$###,###

Research Objectives: The proposed research project would evaluate both the positive and negative impacts of “meds and eds” expansion in small and medium cities (SMCs) using a suite of methods. Our four (4) research questions are as follow: 1) Is forgone property tax revenue a developmental challenge for municipal governments that host “eds and meds” clusters? 2) Do the economic benefits of “eds and meds” expansions exceed municipalities’ foregone property tax revenue? 3) How does the development and expansion of “eds and meds” corridors impact housing affordability in the region? 4) Does “eds and meds” expansion affect racial, ethnic, and class inequities in spatial access to healthcare services in SMCs? We hypothesize that the findings will be mixed. We expect that community benefit spending will be far exceeded by the value of non-profit hospitals’ tax exemptions. Moreover, while academic medical centers’ expansion can and does create jobs, the fastest growth in healthcare employment is concentrated in low-wage (<\$15/hour), precarious work, which is disproportionately carried out by women of color. Even less is known about the effect of “eds and meds” expansions on racial and ethnic disparities in geographic access to care within their health service areas.

2023-2028 None Given Yet (PI: Prins)

Title: Estimating the impact of the school-to-prison pipeline on adolescent health: racialized, spatial disparities in policing, school discipline, substance use, and mental illness

Source: National Institute on Drug Abuse (NIDA)

Role: MPI (10%)

Amount: \$#,###,###

Research Objectives: We will quantify relationships among aggressive community policing, school discipline, and student substance use/mental illness in NYC, the largest school system in the US. NYC pioneered aggressive, broken windows policing^{26–28}, as well as school policing: the number of police stationed in NYC schools alone is equivalent to the 5th largest police force in the US.^{29,30} In collaboration with the NYC Department of Health and Mental Hygiene’s Office of School Health (OSH), we will create a unique geocoded 2000-2022 dataset linking all police stops/arrests; school- and student-level exclusionary discipline; restricted school-level Youth Risk Behavior Surveillance System (YRBSS) data (tobacco, alcohol, and other drug use); and OSH’s database of student health services records (nurse, counselor, mental health visits, referrals to mental health/substance use treatment).

2023-2028 None Given Yet (PI: Holmes)

Title: Equity and the Health Effects of Hurricanes among Rural Long-Term Care Residents in the South: The STORMED Study

Source: National Institute of Aging (NIA)

Role: MPI (20%)

Amount: \$ 2,287,679

Research Objectives: The Study of Older Rural Medicare Enrollees in Disasters (STORMED) will identify the long-term effects of these natural disasters on the health care system serving residents of long-term care facilities in the Southern United States. Specifically, we propose 1) interviewing a wide variety of stakeholders affected by recent hurricanes on how the local health care systems were disrupted and recovered 2) identifying changes in utilization, quality of care, and outcomes for residents of the long-term care facilities in affected areas, and 3) evaluating the changes to the long-

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term viability of providers serving this population. All aims will incorporate an equity lens and evaluate whether there are differences across individuals, facilities, and communities in effect and/or recovery across race and ethnicity.

2023-2028

None Given Yet: R01 Proposal (PI: Patel)

Title: Regionalization of Acute Stroke Care for Rural Populations: A Systems Modeling Approach

Source: National Heart, Lung, and Blood Institute (NHLBI)

Role: MPI (20%)

Amount: \$#,###,###

Research Objectives: The overall objective of the proposed project is to develop a decision-analytic model that allows regional stroke system planners to understand potential effects of various EMS triage and transport strategies on rural stroke outcomes and acute care resources.16-18 Decision-analytic modeling is a rigorous and valuable approach for integrating information sources to predict the impact of system-level strategies under varying conditions, providing evidence to tailor strategies for real-world testing and implementation. Our central hypothesis is that the proposed systems modeling will identify region-and population-specific EMS triage and transport strategies that efficiently use acute care resources to improve rural stroke patient outcomes. Using existing data sources and published evidence, current stroke guidelines and protocols, and key stakeholder input, we will adapt our prototype simulation model of regionalized stroke care to 70 rural counties within North Carolina (NC), a diverse state with high stroke burden.

2023-2028

None Given Yet R01 Proposal (PI: Daaleman)

Title: Identifying Innovative Mechanisms or Interventions that Target Multimorbidity among Persons Experiencing Homelessness (PEH)

Source: National Institute of Aging (NIA)

Role: MPI (20%)

Amount: \$#,###,###

Research Objectives: Our novel, mixed method study advances the evidence base of MCCs in PEH by applying the Behavioral Model for Vulnerable Populations (BMVP) to multilevel trajectory analyses of robust datasets and a qualitative study of key informants. We will study 158,332 adult PEH patients with MCCs from 2015-2019 across 523 federally qualified health care centers (FQHCs) in the ADVANCE Research Data Warehouse, the nation's most comprehensive information source for safety net patients. The BMVP will inform our analyses that integrate health measures and health care services from the ADVANCE dataset with social determinants of health and housing resources of publicly available data from the US Department of Housing and Urban Development Continuum of Care (CoC) program, the American Community Survey, and the Centers for Medicare & Medicaid Services. Semi-structured interviews with persons experiencing homelessness and participating in a CoC program will deepen the findings of our quantitative data.

2023-2026

None Given Yet: R21/R33 Proposal (PI: Daaleman)

Title: Advancing Health Disparities Research in Chronically Ill Older Adults through the Life Course

Source: National Institute of Aging (NIA)

Role: MPI (20%)

Amount: \$ 2,693,869

Research Objectives: Older Americans of color are disproportionately burdened by chronic disease and, despite advances in health care quality, racial and ethnic disparities persist. The current state of health disparities research recognizes that the elimination or reduction of disparities requires approaches and interventions that are multilevel in perspective, addressing an individual's

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social and physical environment, the health care systems he or she accesses, and individual-level factors. This proposal takes a life course perspective to advance health disparities research by using longitudinal datasets to generate data and develop analytical methods and tools that can elucidate the social mechanisms and causal pathways that account for health inequities and structural racism. The R21 phase will build upon a cumulative dis/advantage framework and utilize data from the Health and Retirement Study (HRS) in a novel methodological application of multi-level chronic illness trajectory analyses to examine a panel of health-associated outcomes relevant to older adults in way that accounts for the temporal and macro-social environment.

Fellowships

- 2017-2020 Predoctoral Fellow, Robert Wood Johnson Foundation Health Policy Research Scholars (HPRS) Program
- Awarded stipend support (\$120,000) over 4 years
 - Leadership training, with emphasis on research translation relevant to policymaking processes.

PROFESSIONAL MEMBERSHIPS

- 2020- Present Interdisciplinary Association for Population Health Science (IAPHS)
- 2018- Present AcademyHealth
Member of the State Health Research and Policy and Public Health Systems Research Interest Groups
- 2017- Present Canadian Association of Geographers (CAG)
- 2016- Present American Association of Geographers (AAG)
Member of the Disability, Health and Medical, Spatial Analysis and Modeling, and Geographic Information Science and Systems Specialty groups.
- 2015- 2017 Acoustical Society of America (ASA)
- 2015- 2016 Student Academy of Audiology (SAA)

SERVICE

Departmental Service

- 2020- Present Lead, Health Policy and Management PhD Advisory Committee - Quality and Access Minor

School Service

- 2021 Member, Search Committee for the Gillings Associate Dean of Inclusive Excellence
- 2020 UNC Gillings School of Global Public Health, Study Section

Service to the Profession

- 2020-2022 Board Member (at-large), Health and Medical Specialty Group (HMGSG), American Association of Geographers (AAG)
- 2019 Abstract Reviewer, AcademyHealth ARM 2020 – Disparities & Health Equity Theme
- 2017-2019 Director, Disability Specialty Group, American Association of Geographers (AAG)

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Peer Review (Ad Hoc)

- American Journal of Public Health
- PLOS One
- Health Expectations
- Health and Place
- Social Problems
- Epidemiology and Infection
- BMJ Global Health
- American Journal of Epidemiology
- Health Services Research

ADVISING & MENTORSHIP

DrPh Dissertation Committee(s)

- Dissertation Chair: Melanie Gleiman Phelps (c/o 2024)

PhD Dissertation Committee(s)

- Dissertation Chair: Jodi Smith (incoming Fall 2022)
- Dissertation Chair: Marah Maita (incoming Fall 2022)
- Dissertation Chair: Sharita R. Thomas (c/o 2025)
- Dissertation Committee Member: Hannah R. Friedman (c/o 2024)
- Dissertation Committee Member: Ishrat Z. Alam (UNC Epidemiology PhD Student)
- Dissertation Committee Member: Bryttani Wooten (UNC Geography PhD Student)

Updated May 2022