

Katherine LeMasters

katherine.lemasters@cuanschutz.edu

Current Position

2023- **University of Colorado Anschutz**
Department of General Internal Medicine
Assistant Professor

Education

University of North Carolina at Chapel Hill, May 2023

Epidemiology, PhD

Dissertation: *Mass Probation: Individual and Community Effects of Sentencing Severity on Mental Health Inequities*

University of North Carolina at Chapel Hill, 2018

Maternal and Child Health, MPH

Washington and Lee University, 2015

Economics, BA

Global Politics, BA

Areas of Interest and Expertise

Social Epidemiology • Health Equity • Mass Incarceration • Structural Determinants of Health • Community-Based Participatory Research • Epidemiologic Methods • Quantitative Research • Qualitative Research

Grants and Fellowships

- 2023 Collaborative Pilot Award funded by the National Institute for Drug Abuse and distributed through the Lifespan/Brown Criminal Justice Research Training Program to analyze the relationship between post-release supervision and emergency department visits for mental health and substance use. \$20,000. Role: Co-PI.
- 2021 The National Institutes of Minority Health and Health Disparities F31 Predoctoral Fellowship (F31MD017136) to fund dissertation research on the individual and community effects of probation on mental health disparities. \$69,651. Role: PI.
- 2021 Pilot Award funded by the National Institute for Drug Abuse and distributed through the Lifespan/Brown Criminal Justice Research Training Program to conduct interviews with individuals on probation about mental health. \$16,200. Role: PI.
- 2021 Health Services Research Predoctoral T32 Training Fellowship at The Cecil G. Sheps Center at the University of North Carolina to fund full-time predoctoral training. Role: Predoctoral trainee.

2020	Center for the Study of the American South Southern Futures Summer Research Grant at the University of North Carolina to conduct community-engaged research in rural North Carolina on structural determinants of perinatal mental health. \$3,000. Role: PI.
2019, 2020	The North Carolina Translational and Clinical Sciences Institute Stakeholder Engagement Voucher to create a Community Advisory Board in rural North Carolina on structural determinants of perinatal mental health. \$2,000. Role: Co-PI.
2019	Carolina Center for Public Service Partnership Mini-Grant at the University of North Carolina to partner with youth leaders in Durham, North Carolina around PrEP for HIV prevention. \$300. Role: PI.
2018	Population Research Predoctoral T32 Training Fellowship The Carolina Population Center at the University of North Carolina to fund one year of full-time predoctoral training. Role: Predoctoral trainee.
2018, 2019	Graduate Student in Participatory Research Seed Grant at the University of North Carolina to conduct community-engaged research in rural North Carolina on structural determinants of perinatal mental health. \$1,200. Role: PI.
2018	Carolina Center for Public Service Community Engagement Fellowship at the University of North Carolina to form a partnership in rural North Carolina on perinatal mental health. \$2,500. Role: PI.
2017	FHI 360 Fellow through the University of North Carolina for one-year of full-time student coursework and research to conduct global health research. Role: student trainee.
2016	Doctoral Merit Assistantship at the University of North Carolina for one-year of full-time student coursework and research. Role: student trainee.

Honors and Awards

2023	Delta Omega, Honorary Society for Public Health
2022	Interdisciplinary Association for Population Health Sciences Poster Winner
2022	University of North Carolina - Graduate Certificate in Participatory Research
2021	Lifespan/Brown Criminal Justice Research Program on Substance Use and HIV Scholar
2021	Interdisciplinary Association for Population Health Sciences Travel Award
2021	Council of State and Territorial Epidemiologists Travel Award
2021	Academic and Health Policy Conference on Correctional Health Student Scholarship
2020	University of North Carolina Office of the Provost Public Service Award for Engaged Research
2018	University of North Carolina - The Graduate and Professional Student Federation Travel Award
2018	University of North Carolina - Maternal and Child Health Alumni Committee Travel Stipend
2017	University of North Carolina - Graduate Student Transportation Grant
2016	Honorable Mention Southwestern Social Science Association Conference Undergraduate Paper

Professional Experience

Consultant

Health Impacts of Criminal Penalties for Fentanyl Possession in Colorado 01/2023-Present

- Analyzing the relationship between making fentanyl possession a felony and health including overdose and substance use treatment in the state of Colorado.

Consultant

3/2021-Present

Lifespan Transitions Clinic

- Assessing the relationship between the Transitions Clinic and structural, social, and individual determinants of health among all individuals released from Rhode Island Department of Corrections between 2018-2020.

Mental Health Epidemiologist

2/2020-12/2021

Division of Public Health, Injury and Violence Prevention Branch

NC Department of Health and Human Services

- Conducted data analysis on case definitions for emergency department visits for mental health and substance use in the state of North Carolina.

Research Assistant

1/2020-Present

Re-Envisioning Health and Justice Lab (Dr. Lauren Brinkley-Rubenstein)

- *Third City Project*
 - Conducting quantitative and policy analyses on cause-specific mortality data and other publicly available health data in carceral settings.
 - Coordinating a Community Advisory Board to oversee democratization of carceral data.
- *The Southern Pre-Exposure Prophylaxis (PrEP) Cohort Study of Parolees*
 - Assisting with participant recruitment and retention at parole and probation offices.
 - Administering surveys and conducting semi-structured interviews with recently incarcerated individuals around PrEP acceptability, initiation, and sustained use.
 - Conducting quantitative and qualitative analysis and leading papers on PrEP among parolees.
- *The COVID Prison Project*
 - Conducting quantitative and policy analyses on the COVID-19 pandemic in carceral settings.

Research Assistant

2/2019-12/2021

A community-based approach to understanding PrEP care in at-risk adolescents

(Dr. Marie Stoner; Dr. John Mitchell)

- Formed a community-academic partnership with adults and adolescents in Durham on HIV risk and PrEP.
- Facilitated workshops with community members to define priorities regarding HIV and PrEP.

Eunice Kennedy Shriver National Institute of Child Health and Human Development

8/2017-Present

Pre-doctoral Trainee at the Carolina Population Center

Bachpan Perinatal Depression and Early Child Development Study (Dr. Joanna Maselko)

- Leading paper writing and data analysis on postpartum practices, adverse child experiences, social support, and maternal mental health in Pakistan.

Measurement, Learning, and Evaluation Project for the Urban Reproductive Health Initiative (Dr. Ilene Speizer)

- Creating and analyzed quantitative vignettes and focus group discussions focused on social norms related to family planning in Nigeria.

Principal Investigator

3/2017-06/2022

Mothers Improving Pregnancy and Postpartum Health Outcomes Through Story Sharing

(MI-PHOTOS) (Co-PI: Dr. Elizabeth Bledsoe)

- Forming a community-academic partnership with the Robeson County community on perinatal health.
- Conducting a photovoice project with mothers in the community on their perinatal health concerns.

Research Assistant

10/2019

Piedmont Health Services Pilot Award (Dr. Kathryn Wouk)

- Conducted quantitative data analysis using electronic medical records on predictors of prenatal care at a local network of federally qualified health centers.

Research Assistant

5/2019-9/2019

The North Carolina Institute for Public Health

- Conducted quantitative and qualitative data analysis on a health equity initiative for African American communities in North Carolina affected by gentrification.

- Supported health equity initiatives in NC on breastfeeding, physical activity, community clinical linkages.

Research Assistant

5/2018-5/2019

Perinatal depression and engagement in HIV care among women in Malawi: Formative research to support the development of a culturally appropriate mental health treatment intervention (Dr. Brian Pence)

- Created interview and focus group discussion guides for women and health care providers on living with HIV and perinatal depression.
- Analyzed interview transcripts and leading paper writing on women’s experience living with HIV and perinatal depression.

Consultant

5/2018-8/2018

Institute for Reproductive Health at Georgetown University

- Finalized a toolkit of methodologies that measure social norms surrounding adolescent sexual and reproductive health around the world via a Learning Collaborative.
- Conducted social network analysis on family planning networks in Benin.

Normative Change for Adolescent Sexual and Reproductive Health and Well-Being Fellow

5/2017-5/2018

FHI 360-UNC Public Health Fellowship – Behavioral, Epidemiological, and Clinical Sciences

- Conducted factor analysis on measures of social norms for family planning in the Democratic Republic of the Congo and integrated measures into structural equation models.
- Created a compendium of methodologies that measure social norms on adolescent sexual health.
- Supported grant applications for stakeholder engagement in communities at-risk for HIV in Durham, NC and for savings groups with HIV-positive adolescents in South Africa.

Research Assistant

5/2017-5/2018

A qualitative study of negative provider behaviors in Kenya (Dr. Katherine Tumlinson)

- Analyzed interviews from healthcare providers on facility-level barriers to contraceptive access in Kenya.

Research Assistant

8/2016-5/2017

Carolina Population Center – Measurement, Learning, and Evaluation Project for the Urban Reproductive Health Initiative (Dr. Ilene Speizer)

- Conducted literature reviews on sustainability evaluations in family planning in developing areas.
- Analyzed quantitative data from a four-country study on family planning interventions.

Cluj School of Public Health International Fellow

9/2015-7/2016

- Developed and conducted a qualitative study on Roma women’s pregnancy experiences.
- Organized global health practicum and participated in sociology, qualitative methods, and maternal and child health coursework.

Institutional and Professional Service

Abolitionist Public Health Student Network

2022

- Collaborating with graduate students across the country to build abolition into public health curriculum, research, and campus relations.

UNC Department of Epidemiology

2019-2021

- Collaborated with faculty to create a racial equity lens within the epidemiology methods curriculum.

Social Epidemiology Journal Club

2019-2020

- Organized and moderated journal clubs on theories and critical conversations in social epidemiology.

Epidemiology and Justice

2018-2020

- Organized journal clubs, seminars, and events at the intersection of epidemiology and social justice.

Triangle Empowerment Center: Triangle PrEP Workgroup Member	2018-2020
<ul style="list-style-type: none"> ▪ Supported grant writing and development for a local organization serving minority LGBTQ+ communities in North Carolina. 	
Partnership for a Healthy Durham: HIV/STI Sub-Committee Member	2017-2020
<ul style="list-style-type: none"> ▪ Participated in a community partnership to reduce HIV/STI occurrence in Durham. 	
Student Health Action Coalition: HIV	2016-2019
<i>Counselor (2016-2019), Manager (2018-2019)</i>	
<ul style="list-style-type: none"> ▪ Provided HIV and STI testing and counseling. ▪ Established a community-based partnership with an organization serving community members experiencing homelessness. 	
The Arts Therapy Institute: Participatory Research Intern	2018-2019
<ul style="list-style-type: none"> ▪ Supported a participatory evaluation of an art therapy group for refugee youth. 	
Minority Student Health Conference: Speaker's Committee	2016-2017
<ul style="list-style-type: none"> ▪ Invited and coordinating speakers for breakout sessions for student conference. 	

Teaching and Mentoring

Instructor of Record	
<ul style="list-style-type: none"> ▪ Fundamentals of Epidemiology, Elon University 	2022
Graduate Teaching Assistant	
<ul style="list-style-type: none"> ▪ Introduction to Social Epidemiology, University of North Carolina at Chapel Hill ▪ Leading for Racial Equity, University of North Carolina at Chapel Hill ▪ Methods & Measures for Public Health Practice, University of North Carolina at Chapel Hill 	2021 2019 2019
Carolina Population Center Undergraduate Student Mentor	
<ul style="list-style-type: none"> ▪ Mentored college juniors on population health projects and preparing for graduate school. 	2019

Research Publications (* *Mentored student*)

- **LeMasters, K.,** Renson, A., Zalla, L., Martin, C., Edwards, J. Understanding Accumulation of Health-Related Inequities Over the Life Course Using the Mean Cumulative Count. *Am J Epidemiol.* 2023 May 22:kwad123. <https://doi.org/10.1093/aje/kwad123>.
- **LeMasters, K.,** Behne, M.F., Peterson, M., Lao, L., Brinkley-Rubinstein, L. Suicide Rates in State Prisons Before and During COVID-19: Highlighting Gaps in Data. *PLOS ONE* 18(5): e0285729. <https://doi.org/10.1371/journal.pone.0285729>
- **LeMasters, K.,** Seide, K., Benson, A., Corsi, C., Brinkley-Rubinstein, L., Krajewski, T., Nowotny, K. Collateral consequences of COVID-19 for people on probation and parole. *Health and Justice.* 2023, 11:18. <https://doi.org/10.1186/s40352-023-00221-0>
- **LeMasters, K.,** Delamater, P., Brinkley-Rubinstein, L., Edwards, J., Robinson, W., Pence, B. Mass Probation: Temporal and Geographic Correlation of County-Level Probation Rates & Mental Health in North Carolina. *Social Science and Medicine - Mental Health.* 2023, 3. <https://doi.org/10.1016/j.ssmmh.2023.100189>
- **LeMasters K,** Renson A, Edwards JK, Robinson WR, Brinkley-Rubinstein L, Delamater P, Pence, B. Inequities in Life Course Criminal Legal System Sanctions: Measuring Cumulative Involvement. *Ann Epidemiol* Dec 2022; 76:83–90. <https://doi.org/10.1016/j.annepidem.2022.10.007>
- **LeMasters, K.,** Maragh-Bass, A., Stoner, M., Bhushan, N., Mitchell, J., Riggins, L., & Lightfoot, A. (2022). Lessons Learned From Conducting Community-Based Research on HIV Prevention With Youth

During COVID-19. *Journal of Participatory Research Methods*, 3 (3, Youth-themed Special Issue). <https://doi.org/10.35844/001c.38385>

- **LeMasters, K.**, Cox, M. E., Fliss, M., Seibert, J., Brown, C., & Proescholdbell, S. (2022). Mental health emergency department visits: An exploration of case definitions in North Carolina. *The American Journal of Emergency Medicine*, 57, 103–106. <https://doi.org/10.1016/j.ajem.2022.04.053>
- **LeMasters, K.**, Ranapurwala, S., Maner, M., Nowotny, K., Peterson, M., Brinkley-Rubinstein, L. COVID-19 Community Spread and Consequences for Prison Case Rates. *PLOS ONE* 17(4): e0266772. <https://doi.org/10.1371/journal.pone.0266772>
- **LeMasters K.**, Krajewski T., Nowotny K., Oser C., Mollan K., Brinkley-Rubinstein L. Context specific HIV risk: evidence from screening into the southern pre-exposure prophylaxis study (SPECS). *AIDS Care* 2022 Apr 4;1–6. <https://doi.org/10.1080/09540121.2022.2059054>
- **LeMasters, K.**, Brinkley-Rubinstein, L., Maner, M., Peterson, M., Nowotny, K., Bailey, Z. Carceral Epidemiology: COVID-19 Highlights Mass Incarceration as a Key Mechanism of Structural Racism. *The Lancet Public Health*. March 2022. [https://doi.org/10.1016/S2468-2667\(22\)00005-6](https://doi.org/10.1016/S2468-2667(22)00005-6)
- **LeMasters K.**, Bledsoe, S., Brooks, J., Chavis, S., Little, E., Pevia, K., Daniel, L., Jordan, K., Schindler, A., Lightfoot, A., The MI-PHOTOS Project. The MI-PHOTOS Project: Understanding the Health and Wellbeing of Rural Historically Marginalized Mothers Through Photovoice. *Health Education & Behavior*. December 2021. doi:[10.1177/10901981211057095](https://doi.org/10.1177/10901981211057095)
- **LeMasters, K.**, Oser, C., Cowell, M., Mollan, K., Nowotny, K., Brinkley-Rubinstein, L. Longitudinal Pre-Exposure Prophylaxis (PrEP) Acceptability, Initiation, and Adherence Among Criminal Justice-Involved Adults in the United States: The Southern PrEP Cohort Study (SPECS) Protocol. *BMJ Open* 2021; 11:e047340. <https://doi.org/10.1136/bmjopen-2020-047340>
- **LeMasters, K.**, Costenbader, E., Martinez, A., Speizer, I. Igras, S., The Influence of Men’s Social Networks and Social Norms on Family Planning in Benin. *Global Public Health*. 2021. <https://doi.org/10.1080/17441692.2021.1933125>
- **LeMasters, K.**, Bates, L., Chung, E., Gallis, J., Hagaman, A., Scherer, E., Sikander, S., Staley, B., Zalla, L., Zivich, P., Maselko, J. Adverse Childhood Experiences and Maternal Depression in Rural Pakistan. *BMC Public Health* 21, 400 (2021). <https://doi.org/10.1186/s12889-021-10409-4>
- **LeMasters, K.**, Atkins, K., Oloonabadi, S., Munn, T., Eng, E., Lightfoot, A. How Can We PrEP? Exploring Black MSM’s experiences with pre-exposure prophylaxis through Photovoice. *AIDS Education & Prevention* 33(1). (2021). <https://doi.org/10.1521/aeap.2021.33.1.16>
- **LeMasters, K.**, McCauley, E., Nowotny, K. Brinkley-Rubinstein, L. COVID-19 cases and testing in 53 prison systems. *Health Justice* 8(24). (2020). <https://doi.org/10.1186/s40352-020-00125-3>
- **LeMasters, K.**, Dussault, J., Barrington, C., Bengtson, A., Gaynes, B., Go, V., Hosseinipour M., Kuliseva, K., Kutengule, A., Meltzer-Brody, S., Midiani, D., Mphonda, S., Pence, B., Udedi, M. "Pain in my heart": Understanding perinatal depression among women living with HIV in Malawi. *PLOS ONE* 15(6): e0227935. (2020). <https://doi.org/10.1371/journal.pone.0227935>
- **LeMasters, K.**, Andrabi, N., Zalla, L., Hagaman, A., Chung, E., Gallis, J., Turner, E., Bhalotra, S., Sikander, S., Maselko, J. Maternal depression in rural Pakistan: the protective associations with cultural postpartum practices. *BMC Public Health* 20, 68 (2020). <https://doi.org/10.1186/s12889-020-8176-0>
- **LeMasters, K.**, Wallis, A., Chereches, R., Gichane, M., Tehei, C., Varga, A. Tumlinson, K. (2019) Pregnancy experiences of women in rural Romania: understanding ethnic and socioeconomic disparities. *Culture, Health & Sexuality*, 21:3, 249-262 (2019) [10.1080/13691058.2018.1464208](https://doi.org/10.1080/13691058.2018.1464208)
- Uhrig Castonguay, B., **LeMasters, K.**, Corsi, C., Batty, E., Krajewski, T., Travis, M., Waleed, C., Oser, C., Nowotny, K., Brinkley-Rubinstein, L. Retention Strategies in the First Pre-Exposure Prophylaxis (PrEP) Observational Cohort among those on Community Supervision in the South: Lessons Learned During the COVID-19 Pandemic. *PLOS ONE* 18(4): e0283621. <https://doi.org/10.1371/journal.pone.0283621>
- Kuliseva, K., Dussault, J., Bengtson, A., Gaynes, B., Hosseinipour M., Go, V., Kutengule, A., **LeMasters, K.**, Meltzer-Brody, S., Midiani, D., Mphonda, S., Udedi, M. Pence, B., The Feasibility and Acceptability of a Task-Shifted Intervention for Perinatal Depression among Women Living with HIV in Malawi: A Qualitative Analysis. *BMC Psychiatry* 22, 833 (2022). <https://doi.org/10.1186/s12888-022-04476-z>
- Maragh-Bass, A.C., **LeMasters, K.**, Sanders, T., Dearing, A., Purcell, R., Harding, C., Mitchell, J, Stoner, M, Bhushan, N, Walker, M, Riggins, L., Golin, C., Pettifor, A., Lightfoot, A. Lessons Learned in Centering

Youth Voices in HIV Prevention: The Adolescent Health Working Group. *Prog Community Health Partnersh.* 2022;16(4):551-561. <https://muse.jhu.edu/article/873961>.

- Hagaman, A., Bates, L., Atif, N., Chung, E., **LeMasters, K.**, Rahman, A., Saqib, K., Sikander, S., Maselko, J. Suicide ideation within and outside the perinatal period: An exploration of interpersonal factors from a maternal cohort in rural Pakistan to improve intervention targeting. *Archives of Suicide Research.* doi: [10.1080/13811118.2022.2154727](https://doi.org/10.1080/13811118.2022.2154727)
- McCauley, E., **LeMasters, K.** Behne, M.F., Brinkley-Rubinstein, L. COVID-19: A Call to Action to Public Health Institutions and Teaching to Incorporate Mass Incarceration as a Socio-Structural Determinant of Health. *Public Health Reports.* September 2022. doi:[10.1177/00333549221120243](https://doi.org/10.1177/00333549221120243)
- Nowotny, K., Metheny, H. **LeMasters, K.**, Brinkley-Rubinstein, L. Age and COVID-19 Mortality in the United States: A Comparison of the Prison and General Population. *International Journal of Prisoner Health.* Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/IJPH-08-2021-0069>
- Cowan, K. N., Peterson, M., **LeMasters, K.**, & Brinkley-Rubinstein, L. (2022). Overlapping Crises: Climate Disaster Susceptibility and Incarceration. In *International Journal of Environmental Research and Public Health* (Vol. 19, Issue 12). <https://doi.org/10.3390/ijerph19127431>
- * Ikram, N., Frost, A., **LeMasters, K.**, Hagaman, A., Baranov, V., Gallis, J., Sikander, S., Scherer, E., Maselko, J. Adverse Childhood Experiences and Implications of Perceived Stress, Anxiety, and Cortisol Among Women in Pakistan. *Adverse childhood experiences and implications of perceived stress, anxiety and cortisol among women in Pakistan: a cross-sectional study.* *BMJ Open.* 2022;12(4):e052280. Published 2022 Apr 15. <https://doi.org/10.1136/bmjopen-2021-052280>
- * Segule, M., **LeMasters, K.**, Peterson, M., Behne, M., Brinkley-Rubinstein, L. Incarcerated workers: overlooked as essential workers. *BMC Public Health* 22, 506 (2022). <https://doi.org/10.1186/s12889-022-12886-7>
- Stoner, M., Bhushan, N., Maragh-Bass, A.C., Mitchell, J., Riggins, L., Walker, M., **LeMasters, K.**, Reese, B., Dearing, A., Debnam, S., Golin, C., Lightfoot, A., Pettifor, A. Using Participatory Methods to Assess PrEP Interest and Uptake Among Young People Living in the Southeastern US: A Mixed Methods Assessment. *AIDS Behav* (2021). <https://doi.org/10.1007/s10461-021-03519-y>
- Maner, M., **LeMasters, K.**, Lao, J., Cowell, M., Nowotny, K., Cloud, D., Brinkley-Rubinstein, L. COVID-19 in Corrections: Quarantine of Incarcerated People. *PLOS ONE* 16(10): e0257842. <https://doi.org/10.1371/journal.pone.0257842>
- Brinkley-Rubinstein L, **LeMasters K**, Nguyen P, Nowotny K, Cloud D, et al. (2021) The association between intersystem prison transfers and COVID-19 incidence in a state prison system. *PLOS ONE* 16(8): e0256185. <https://doi.org/10.1371/journal.pone.0256185>
- Sharif, M., Zaidi A., Waqas, A., Malik, A., Hagaman, A., Maselko, J., **LeMasters, K.**, Liaqat, R., Bilal, S., Bibi, T., Ahmad, I., Sikander, S., Rahman, A. (2021) Psychometric validation of the Multidimensional scale of perceived social support during pregnancy in rural Pakistan. *Frontiers in Psychology.* 12:601563. <https://doi.org/10.3389/fpsyg.2021.601563>.
- Hagaman, A., **LeMasters, K.**, Zivich, P., Sikander, S., Bates, L., Bhalotra, S., Chung, E., Zaidi, A., Maselko, J. (2021) Longitudinal effects of perinatal social support on maternal depression: a marginal structural modelling approach. *J Epidemiol Community Health.* <https://doi.org/10.1136/jech-2020-215836>
- Maselko, J., Sikander, S., Turner, E., Bates, L., Ahmad, I., Atif, N., Baranov, V., Bhalotra, S., Bibi, A., Bibi, T., Bilal, S., Biroli, P., Chung, E., Gallis, J., Hagaman, A., Jamil, A., **LeMasters, K.**, O'Donnell, K., Scherer, E., Sharif, M., Waqas, A., Zaidi, A., Zulfiqar, S., & Rahman, A. Effectiveness of a peer-delivered, longer-duration psychosocial intervention on maternal depression and child development at 3 years of age : Results and lessons from a cluster randomized trial in Pakistan. *The Lancet Psychiatry,* 7:9, 775-787 (2020). [https://doi.org/10.1016/S2215-0366\(20\)30258-3](https://doi.org/10.1016/S2215-0366(20)30258-3)
- Chung, E., Hagaman, A., **LeMasters, K.**, Gallis, J., Turner, E., Sikander, S., Maselko, J. The contribution of grandmother involvement to child growth and development: an observational study in rural Pakistan. *BMJ Global Health* 2020;5:e002181. <http://dx.doi.org/10.1136/bmjgh-2019-002181>
- Hagaman, A., Chung, E., Andrabi, N., **LeMasters, K.**, Gallis, J., Turner, E., Maselko, J. Observational analysis of social determinants of child HPA-Axis biomarkers at one year. *Journal of Affective Disorders,* 276: 1, 592-599 (2020) <https://doi.org/10.1016/j.jad.2020.07.053>

- Atif, N., Bibi, A., Nisar, A., Zulfiqar, S., Ahmed, I., **LeMasters, K.**, Hagaman, A., Sikander, S., Maselko, J., Rahman, A. (2019). Delivering maternal mental health through peer volunteers: a 5-year report. *International Journal of Mental Health Systems*, 13(1), 62. <https://doi.org/10.1186/s13033-019-0318-3>
- Costenbader E, Zissette S, Martinez A, **LeMasters K**, Dagadu NA, Deepan P, et al. (2019) Getting to intent: Are social norms influencing intentions to use modern contraception in the DRC? *PLoS ONE* 14(7): e0219617. <https://doi.org/10.1371/journal.pone.0219617>
- Tumlinson, K., Gichane, M. W., Curtis, S. L., & **LeMasters, K.** (2019). Understanding healthcare provider absenteeism in Kenya: a qualitative analysis. *BMC Health Services Research*, 19(1), 660. <https://doi.org/10.1186/s12913-019-4435-0>

Forthcoming Publications

- **LeMasters, K.** Ross, R., Edwards, J., Lee, H., Robinson, W., Brinkley-Rubinstein, L., Delamater, P., Pence, B. Mass Probation: Effects of sentencing severity on mental health for Black and White individuals. Accepted. *Epidemiology*.
- **LeMasters, K.**, Krajewski, T., Dong, K., Brinkley-Rubinstein, L. Documenting competing needs to well-being among those on community supervision in the south. Revise & Resubmit.
- **LeMasters, K.**, Camp, H., Benson, A., Corsi, C., Cullins, Z., Brinkley-Rubinstein, L. “Nothing but a rope to hang yourself”: The toll of mass supervision on mental health. Revise & Resubmit.
- **LeMasters, K.**, Cowell Mercier, M., Maner, M., Chen, H., Brinkley-Rubinstein, L. Medication for Opioid Use Disorder in Jail Settings: Barriers and Facilitators to Implementation. Under Review.
- **LeMasters, K.**, Ranapurwala, S., Behne, M., Duchesneau, E., Fliss, M., Lao, J., Brinkley-Rubinstein, L. Age-Standardized Suicide Rates of Persons in Federal Prisons and the General Population 2009-2020. Under Review.
- Chung, E., Scherer, E., LeMasters, K., Bates, L., Hagaman, A., Staley, B., Zalla, L., Sikander, S., Maselko, J. Maternal adverse childhood experiences on child growth and development in rural Pakistan. Revise & Resubmit.
- Patil, P., Yamkovoy, K., Dunn, D., Erdman, E., Bernson, D., Swathi, P., Nall, S., Zhang, Y., Wang, J., Brinkley-Rubinstein, L., LeMasters, K., White, W., Barocas, J. Using machine learning to predict opioid-related overdose following prison release. Submitted.
- Rockey, N., Cervantes, L., **LeMasters, K.**, Rizzolo, K. Challenging Health Inequities in Incarceration: A Call for Equitable Care for Kidney Disease and Hypertension. Submitted.
- Nall, S., Jurecka, C. Ammons, Rodriguez, A., Craft, B., Waleed, C., Dias, D., Henderson, J., Boyer, J., Yamkovoy, K., Swathi, P., Patil, P., Behne, M., **LeMasters, K.**, Brinkley-Rubinstein, L., Barocas, J. Identifying Structural Risk Factors of Overdose Following Incarceration: A Concept Mapping Study. Submitted.
- Frost, A., Scherer, E., Chung, E., Gallis, J., Sanborn, K., Hagaman, A., **LeMasters, K.**, Sikander, S., Turner, E., Zhou, Y., Maselko, J. Submitted.

Other Publications

- **LeMasters, K.**, Brinkley-Rubinstein, L. Opinion: The Abysmal State of Reporting Suicides from U.S. Prisons. *Undark*. August 3, 2023. <https://undark.org/2023/08/03/the-abysmal-state-of-reporting-suicides-from-u-s-prisons/>
- **LeMasters, K.**, Maner, M., M.F. Behne, Kaplowitz, E., Evancho, P., Brinkley-Rubinstein, L. Solitary confinement under the guise of public health: lessons learned from the HIV epidemic. *Health Affairs Forefront*, May 31, 2023. <https://www.healthaffairs.org/doi/10.1377/forefront.20230530.526784>
- **LeMasters, K.**, Peterson, M., Maner, M., Brinkley-Rubinstein, L. Staff Shortages in Prisons and Jails Highlight Opportunities for Decarceration. *Health Affairs Forefront*, January 21, 2022. <https://www.healthaffairs.org/doi/10.1377/forefront.20220119.329328/>

- **LeMasters, K.**, Cowell, M., Brinkley-Rubinstein, L. COVID-19 and HIV: Overlapping Pandemics for Criminal Justice Involved Individuals. Health Affairs Blog, August 24, 2021. <https://www.healthaffairs.org/doi/10.1377/forefront.20210818.753807>
- Brinkley-Rubinstein, L., Cullins, Z., **LeMasters, K.**, Behne, M., Nowotny, K., Lao, J. "Monkeypox In Prisons: Urgent Action Needed To Avoid A Public Health Crisis", Health Affairs Forefront, September 13, 2022. <https://doi.org/10.1377/forefront.20220909.516339>
- Hamblett, A., Cowell, M., **LeMasters, K.**, Maner, M., Brinkley-Rubinstein, L. State Departments' of Health Relationships with Departments of Correction in the Time of COVID-19. Health Affairs Forefront, January 28, 2022. doi: [10.1377/forefront.20220127.35520](https://doi.org/10.1377/forefront.20220127.35520)
- Hamblett A., Cowell M., **LeMasters K.**, Brinkley-Rubinstein L. (2022) Best Practices to Assuage COVID-19 Risk in Jails and Prisons. In: Greifinger R.B. (eds) Public Health Behind Bars. Springer, New York, NY. https://doi.org/10.1007/978-1-0716-1807-3_9

Book Chapters

- Hamblett A., Cowell M., **LeMasters K.**, Brinkley-Rubinstein L. (2022) Best Practices to Assuage COVID-19 Risk in Jails and Prisons. In: Greifinger R.B. (eds) Public Health Behind Bars. Springer, New York, NY. https://doi.org/10.1007/978-1-0716-1807-3_9
- Cowan, K., Lao, J., **LeMasters, K.**, Behne, M., Brinkley-Rubinstein, L. (2023) Overlapping Crises: Climate Disaster Susceptibility and Incarceration. Submitted.

Selected Conference Oral Presentations (* Presenting Author)

- Nall, S., Jurecka, C. Ammons, Rodriguez, A., Craft, B., Waleed, C., Dias, D., Henderson, J., Boyer, J., Yamkovoy, K., Swathi, P., Patil, P., Behne, M., **LeMasters, K.**, Brinkley-Rubinstein, L., Barocas, J. Identifying Structural Risk Factors of Overdose Following Incarceration: A Concept Mapping Study. College on Problems of Drug Dependence, Annual Conference, Denver, CO, June 2023.
- * **LeMasters, K.** Ross, R., Edwards, J., Lee, H., Robinson, W., Brinkley-Rubinstein, L., Delamater, P., Pence, B. Mass Probation: Effects of sentencing severity on mental health for Black and White individuals. Society for Epidemiological Research, Annual Conference, Portland, OR, June 2023.
- * **LeMasters, K.**, Nowotny, K., Brinkley-Rubinstein, L. COVID-19 and the long term impacts on carceral populations in the United States. Law and Society, Annual Conference, San Juan, PR, June 2023.
- **LeMasters, K.**, Camp, H., Benson, A., Corsi, C., Cullins, Z., Brinkley-Rubinstein, L. "Nothing but a rope to hang yourself?": The toll of mass supervision on mental health. Academic Consortium on Criminal Justice and Health, Annual Conference, Raleigh, NC, April, 2023.
- * **LeMasters, K.**, Delamater, P., Brinkley-Rubinstein, L., Edwards, J., Robinson, W., Pence, B. Mass Probation: Temporal and Geographic Correlation of County-Level Probation Rates & Mental Health in North Carolina. American Public Health Association, Annual Conference, Boston, MA, November 2022.
- * **LeMasters, K.**, Krajewski, T., Dong, K., Brinkley-Rubinstein, L. Documenting Competing Needs to Well-Being among those on Community Supervision in the South. American Public Health Association, Annual Conference, Boston, MA, November 2022.
- * **LeMasters, K.**, Renson, A., Edwards, J., Robinson, W., Brinkley-Rubinstein, L., Delamater, P., Pence, B. Inequities in Life Course Involvement in the Criminal Legal System: Moving Beyond Incarceration. American Public Health Association, Annual Conference, Boston, MA, November 2022.
- * Hamid, S., **LeMasters, K.**, Peterson, M., Overcrowding in California Prisons During the COVID-19 Pandemic. Academic Consortium on Criminal Justice and Health. 15th Annual Meeting, Virtual, April 2022.
- * **LeMasters, K.**, Behne, M., Lao, L., Peterson, M., Brinkley-Rubinstein, L. The Need for Context: Suicide Rates in State Prisons Before and During COVID-19. Academic Consortium on Criminal Justice and Health. 15th Annual Meeting, Virtual, April 2022.

- * **LeMasters, K.**, Ranapurwala, S., Maner, M., Peterson, M., Nowotny, K., Brinkley-Rubinstein, L. COVID-19 Community Spread and Consequences for Prison Case Rates. International Association of Population Health Sciences, Annual Conference, Virtual, October 2021.
- * **LeMasters, K.**, Cox, M.B., Fliss, M., Proescholdbell, S. Mental Health and Overdose Emergency Department Visits: An Exploration of Case Definitions in North Carolina, 2018. Council of State and Territorial Epidemiologists, Annual Conference, Virtual, June 2021.
- Chung, E., Glover, L., **LeMasters, K.**, Lodge, E., Martinez, R., Staley, B., Wright, M. Improving Pedagogy: A Doctoral Student Initiating to Integrate Race and Ethnicity into Epidemiology Curriculum. Society of Epidemiologic Research 54th Annual Meeting, Virtual, June 2021.
- * **LeMasters, K.**, McCauley, E., Nowotny, K., Brinkley-Rubinstein, L. COVID-19 Cases and Testing in 53 Prison Systems. Academic Consortium on Criminal Justice and Health. 14th Annual Meeting, Virtual, April 2021.
- * **LeMasters, K.**, Uhrig Caustonguay, B., Brinkley-Rubinstein, L. Retention and Protocol Development for the first Pre-exposure Prophylaxis (PrEP) Observational Cohort of Returning Citizens in the US South: Lessons Learned and Reframing Retention in COVID. Academic Consortium on Criminal Justice and Health. 14th Annual Meeting, Virtual, April 2021.
- * **LeMasters, K.**, Corsi, C., Krajewski, T., Brown, M., Mollan, K., Cowell, M., Morgan, S., Brinkley-Rubinstein, L. Exploring Intersections of Social Support, Trauma, and Adult Well-Being among Formerly Incarcerated Adults: Results from the SPECS Study. Academic Consortium on Criminal Justice and Health. 14th Annual Meeting, Virtual, April 2021.
- * **LeMasters, K.**, Krajewski, T. Brinkley-Rubinstein, L. Screening into the Southern Pre-Exposure Prophylaxis Study (SPECS). Academic Consortium on Criminal Justice and Health. 14th Annual Meeting, Virtual, April 2021.
- Bledsoe, S. E., **LeMasters, K.**, Brooks, J., Chavis, S., Little, E., Pevia, K., Daniel, L., Jordan, K., Schindler, A., & Lightfoot, A. for the MI-PHOTOS Project. *Understanding the Health and Wellbeing of Rural, BIPOC Mothers to Advance Health Equity and Justice*. Society for Social Work and Research 26th Annual Conference, January 2022, Washington, DC.
- * Hagaman, A., **LeMasters, K.**, Zivich, P., Sikander, S., Bates, L., Bhalotra, S., Chung, E., Zaidi, A., Maselko, J. Longitudinal effects of perinatal social support on maternal depression: a marginal structural modelling approach. Society of Epidemiologic Research 53rd Annual Meeting, Virtual, December 2020.
- Maragh-Bass, A.C, Stoner, M., Mitchell, J.T., Riggins, L., **LeMasters, K.**, Bhushan, N.L., Walker, M., Debnam S.L., Lightfoot, A., Pettifor, A., Golin, C. “Amplifying Youth Voices in HIV Prevention: Lessons Learned from a Community-Based Adolescent Health Project in Durham, NC”. 4th HIV Research for Prevention conference, Virtual, 27-28 January and 3-4 February 2021.
- * Pevia, K., Brooks, J., Marshall, S., **LeMasters, K.**, Bledsoe, S. Story Sharing as Community Engagement: The MI-PHOTOS Project. Connect, Engage, Transform: Rural Community Partnerships. January 2020. Chapel Hill, NC.
- * **LeMasters, K.**, Hunter, M. How Can We PrEP? A Photovoice Project. Workshop Leader at The HIV Biomedical Prevention Summit. The National Minority AIDS Council. December 2019. Houston, TX.
- * **LeMasters, K.** Bledsoe, S., Pevia, K., Brooks, J., Godown, E., Byrd, R. Lessons Learned from Initiating Community-Based Participatory Research for Perinatal Health. The American Public Health Association. November 2019. Philadelphia, PA.
- * Islam, J., McClure, E., Gartner, D., Quist, A., **LeMasters, K.**, Wilkie, A., Keeler, C. Zine development as a pedagogical tool for critically evaluating how social justice and epidemiology relate. The American Public Health Association. November 2019. Philadelphia, PA.
- * **LeMasters, K.** Costenbader, E., Martinez, A., Speizer, I. Igras, S. The Influence of Men’s Social Networks and Social Norms on Family Planning in Benin. International Conference on Family Planning. November 2018, Kigali, Rwanda.
- Bengtson, A., Gaynes, B., Hosseinipour M., Kulisewa, K., Kutengule, A., **LeMasters, K.**, Meltzer-Brody, S., Midiani, D., Mphonda, S., Pence, B., Udedi, M. The Feasibility and Acceptability of Perinatal Depression Screening and Counseling for Women Living with HIV in Malawi. College of Medicine Research Dissemination Conference. November 2018, Lilongwe, Malawi.
- * **LeMasters, K.** The Pregnancy Experiences of Women in Rural Communities in Cluj County, Romania: Understanding Ethnic and Social Disparities. Psychosocial Workshop, April 2017, Chicago, IL.

- * **LeMasters, K.** Determinants of Health in Navajo Nation. *Science, Society, and the Arts* 6, March 2015, Lexington, VA.
- * **LeMasters, K.** Does Decentralization Influence Health in Ghana? National Council on Undergraduate Research, April 2015, Spokane, WA.

Selected Conference Posters (** Presenting Author*)

- Behne, M.F., **LeMasters, K.**, Cullins, Z., Peterson, M., Waleed, C., Brinkley-Rubinstein, L. Engaging with Stakeholder Data to Advance the Third City Project's Aims. American Public Health Association, Annual Conference, Boston, MA, November 2022.
- * **LeMasters, K.**, Renson, A., Zalla, L., Martin, C., Edwards, J. Understanding Accumulation of Health-Related Inequities Over the Life Course Using the Mean Cumulative Count. International Association of Population Health Sciences. September 2022. Minneapolis, MN.
- Castonguay, B., **LeMasters, K.**, Brinkley-Rubinstein, L. Retention Strategies in the First Pre-Exposure Prophylaxis (PrEP) Observational Cohort among those on Community Supervision in the South: Lessons Learned During the SARS-COV-2 Pandemic. International AIDS Conference. July 2022. Montreal, Canada.
- * **LeMasters, K.**, Renson, A., Edwards, J., Robinson, W., Brinkley-Rubinstein, L., Delamater, P., Pence, B. Inequities in Life Course Involvement in the Criminal Legal System: Moving Beyond Incarceration. Society for Epidemiologic Research. June 2022. Chicago, IL.
- * **LeMasters, K.**, Staley, B., Bates, L., Chung, E., Hagaman, A., Scherer, E., Sikander, S., Maselko, J. Adverse Childhood Experiences and Maternal Depression in Rural Pakistan. International Association of Population Health Sciences, October 2020, Virtual due to COVID-19.
- * **LeMasters, K.**, Brinkley-Rubenstein, L., Corsi, C., Mollan, K., Morgan, S., Karjewski, T. HIV Prevention Among Formerly Incarcerated Individuals: The Southern Pre-Exposure Prophylaxis (PrEP) Cohort Study. International Association of Population Health Sciences, October 2020, Virtual due to COVID-19.
- Bledsoe, S. E., **LeMasters, K.**, Pevia, K., Brooks, J., Godown, E., & Byrd, R. for the MI-PHOTOS Team. Building Community-based Participatory Research Partnerships with Majority-Minority Communities: Research Methods to Promote Racial, Social, and Political Justice. Society for Social Work and Research 26th Annual Conference, January 2022, Washington, DC.
- * Hagaman, A., **LeMasters, K.**, Zivich, P., Sikander, S., Maselko, J. Causal model of the association of social support from pregnancy to postpartum on maternal depression. Population Association of America Annual Meeting, April 2020, Virtual due to COVID-19.
- * Stoner, M., Mitchell, J., Maragh-Bass, A., **LeMasters, K.**, Bhushan, N., Lightfoot, A., Riggins, L., Ritchwood, T., Pettifor, A., Sikkema, K., Golin, G. A Community-based approach to understanding PrEP care in at-risk adolescents. The American Public Health Association. November 2019. Philadelphia, PA.
- * **LeMasters, K.**, Andrabi, N., Zalla, L., Gallis, J., Turner, E., Sikander, S., Maselko, J. Cultural postpartum practices and depression in rural Pakistan. International Association of Population Health Sciences. October 2019, Seattle, WA.
- Tumlinson K., **LeMasters K.**, Curtis S. Hiding in the Blind Spot: In-Depth Provider Perspectives on Facility-Level Barriers to Contraceptive Access. International Conference on Family Planning, November 2018, Kigali, Rwanda.
- Bengtson, A., Gaynes, B., Hosseinipour M., Kulisewa, K., Kutengule, A., **LeMasters, K.**, Meltzer-Brody, S., Midiani, D., Mphonda, S., Pence, B., Udedi, M. "Pain in my heart": Understanding perinatal depression among women living with HIV in Malawi. College of Medicine Research Dissemination Conference. November 2018, Lilongwe, Malawi.
- * Costenbader, E., **LeMasters, K.**, Zissette, S., Dagadu, N., Martinez, A., Shaw, B. Social Norms and Family Planning Use in Kinshasa, Democratic Republic of the Congo. Population Association of America Annual Meeting, April 2018, Denver, CO.

- * **LeMasters, K.**, McGuire, C., Calhoun, L., Speizer, I. Assessing Social Norms Around Family Planning in Urban Nigeria: Employing a Vignette Approach. Population Association of America Annual Meeting, April 2018, Denver, CO.
- * **LeMasters, K.**, Wallis, A., Chereches, R., Gichane, M., Tehei, C., Varga, A., and Tumlinson, K. The Pregnancy Experiences of Women in Rural Communities in Cluj County, Romania: Understanding Ethnic and Social Disparities. Association for Public Policy Analysis and Management Fall Research Conference, November 2017, Chicago, IL.

Public Speaking

- **LeMasters, K.**, Jackson, M., Lightfoot, A., Riggins, C. Community-Engaged Research for HIV Prevention with Youth, January 2022, Durham, NC.
- **LeMasters, K.**, Atkins, K., Ahmadi, S. How Can We PrEP? A Photovoice Project. Presenter at a Partnership for a Healthy Durham: HIV/STI Sub-Committee, October 2018, Durham, NC.
- **LeMasters, K.** Health in Developing Countries. Panel Discussant at the Association for Public Policy Analysis and Management Fall Research Conference, November 2017, Chicago, IL.
- **LeMasters, K.** The Pregnancy Experiences of Women in Rural Communities in Cluj County, Romania: Understanding Ethnic and Social Disparities. Presenter at GillingsX Global Health: Mission Possible, March 2017, Chapel Hill, NC.
- **LeMasters, K.** Engaging with Vulnerable Communities: A Global Perspective. Invited workshop leader at Bonner Congress, October 2016, Lexington, VA.

Invited Lectures

- Camplain, R. & **LeMasters, K.** Mass Incarceration and Health. Northwest Portland Area Indian Health Board. Introductory and Intermediate Epidemiology. June 2023. Virtual.
- **LeMasters, K.** Panel for Securing Funding During the PhD. UCSF S248. January 2022, October 2022. Virtual.
- **LeMasters, K.**, Behne, M., Waleed, C. Mass Incarceration and Health. UNC EPID 826. October 2021, October 2022, Chapel Hill, NC.
- Bey, G. & **LeMasters, K.** Utilization of Race and Ethnicity in Epidemiologic Research. UNC EPID 704. September 2021. Virtual.
- Bey, G. & **LeMasters, K.** Measurement Challenges in Health Equity Research. UNC NURS 960. June 2020. Virtual.
- Chung, E., & **LeMasters, K.** Considerations of Race in Epidemiology Part II. UNC EPID 716. March 2020, Chapel Hill, NC.
- **LeMasters, K.** Lessons learned from initiating community-based participatory research. UNC Buckley Public Service Scholars Training. March 2020, Chapel Hill, NC.
- Matthews, D. & **LeMasters, K.** Race and social science quantitative research methods: considerations to move us closer to equity. UNC The Race Workshop. February 2020, Chapel Hill, NC.
- Baxter, S., Chauvenet, C., **LeMasters, K.**, Wallace, D. Introduction to Public Health Research Methods. Elon University. November 2019, Burlington, NC.
- **LeMasters, K.** PrEP, HIV Prevention, and Community-Based Approaches with Black Communities. Elon University. October 2019, Burlington, NC.
- **LeMasters, K.** Understanding Perinatal Health Experiences Among Mothers in Robeson County, NC. UNC COMM 900/HBEH 690. November 2018, Chapel Hill, NC.
- **LeMasters, K.** The Pregnancy Experiences of Women in Rural Communities in Cluj County, Romania: Understanding Ethnic and Social Disparities. Invited lecturer at the University of Louisville Department of Epidemiology and Population Health, March 2017. Virtual.

Referee

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- American Journal of Public Health
 - Archives of Women's Mental Health
 - BMC Public Health
 - BMC Psychiatry
 - Clinical and Infectious Diseases
 - Journal of Family Violence
 - Health and Justice
 - The Lancet Regional Health - Europe
 - Paediatric and Perinatal Epidemiology
 - PLoS ONE

Abstract Reviewer

- Interdisciplinary Association for Population Health Sciences