**Natalie D. Crawford, PhD**

Behavioral, Social and Health Education Sciences

Rollins School of Public Health at Emory University

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**EDUCATION**

**Mailman School of Public Health, Columbia University**,New York, NY

Doctor of Philosophy (PhD), May 2011

Epidemiology

**Mailman School of Public Health, Columbia University**, New York, NY

Master of Public Health (MPH), May 2006

Epidemiology

**Spelman College**, Atlanta, GA

Bachelors of Science (BS), May 2004

Women’s Studies and Biochemistry

**Josai International University**, Togane, Chiba, Japan

Japanese Summer Studies, Summer 2003

**Wellesley College**, Wellesley, MA

Exchange Program, Fall 2002

**PROFESSIONAL EXPERIENCE**

2015 – Present *Assistant Professor*

 Behavioral Sciences and Health Education

 Rollins School of Public Health

 Emory University, Atlanta, GA

2020 – Present *Associate Director, Prevention and Implementation Sciences Core*

 Center for AIDS Research [CFAR]

 Emory University, Atlanta, GA

2016-2020 *Assistant Director, Prevention Sciences Core*

 Center for AIDS Research [CFAR]

 Emory University, Atlanta, GA

2013 – 2015 *Assistant Professor*

 Division of Epidemiology and Biostatistics

 School of Public Health

 Georgia State University, Atlanta, GA

2011 – 2013 *Robert Wood Johnson Health and Society Scholar*

 Center for Social Epidemiology and Population Health

 Department of Epidemiology

University of Michigan, Ann Arbor, MI

2010 – 2011 *Research Coordinator*

Mailman School of Public Health

Columbia University, New York, NY

2007 – 2010 *Project Director*

 Center for Urban Epidemiologic Studies

 New York Academy of Medicine, New York, NY

2006 – 2007 *Research Fellow*

 Department of Epidemiology

 Columbia University, New York, NY

2004 – 2006 *Research Assistant*

Center for the Health of Urban Minorities

 Columbia University, New York, NY

2005 *Research Fellow*

 Centers for Disease Control and Prevention

 Oak Ridge Institute for Science and Education, Atlanta, GA

2004 *Research Intern*

 Morehouse College

Project Imhotep, Amani, Tanga, Tanzania

HONORS, DISTINCTIONS AND AWARDS

2022 BSHES Distinguished Teaching Award

2021 NIDA Diversity Scholars Network

2019-20 NIDA Loan Repayment Program

2019 Barbara Vick Impact on HIV Award

2016 HIV and AIDS Substance Use and Trauma Training Program Scholar

2016 Center for AIDS Research Social and Behavioral Science Research Network Scholar

2016 National Institute of Minority Health and Health Disparities Research Institute Scholar

2011-14 NIDA Loan Repayment Program

2011 American Psychological Association and National Institute on Drug Abuse Early Career Investigator Award

2011 Social Inequalities Research Award, Center for the Study of Social Inequalities in Health and Department of Sociomedical Sciences

2011 William Farr Award in Epidemiology, Epidemiology Department, Mailman School of Public Health

2010 Primm Singleton Award, College on Problems of Drug Dependence

2006 Bernard Challenor Spirit Prize, Columbia University

2006 Anna C. Gelman Fellowship for doctoral studies in the Department of Epidemiology, Columbia University

**RESEARCH FUNDING**

***Active***

NIMH 1R34MH119007-01 (PI: Crawford) 08/01/2019 – 06/30/2023

Title: Advancing pre-exposure prophylaxis (PrEP) access in pharmacies to improve PrEP uptake in disadvantaged areas

Role: Principal Investigator

NIH/NIAID 5P30A1050409-23 (PI: del Rio) 08/01/2019 – 07/31/2022

Title: Center for Aids Research – 03

Role: Co-Investigator

NIMHD 1 R01 DA056235-01 (PI: Hussen) 08/01/2022-07/31/2027

Title: Structural Influences on Methamphetamine Use among Black Gay and Bisexual Men in Atlanta

Role: Co-Investigator

***Pending***

NICHD (R01 Proposal MPI within UM2 ATN Center Proposal) 12/1/2022-11/30/2029

Title: Choice of Mailed and Pharmacy HIV Testing for Youth (COMPHY)

Role: Multiple Principal Investigator (co-PI: Sanchez)

Status: Scored, under funding consideration

NIMH R01 Proposal (PI Crawford) 12/1/2022-11/30/2027

Title: Strengthening the HIV prevention continuum using pharmacies

Role: Principal Investigator

Status: Scored, under funding consideration

***Inactive***

NCI 1R01CA215155-01A1 (PI: Berg; Site PI: Crawford) 12/07/2017 - 11/30/2022

Title: Regulatory Impact on Vape Shops and Young Adults’ Use of ENDS

Role: Co-Investigator

NIH/NIAID 2P30A1050409 (PI: Hussen) 09/01/2020 – 08/31/2022

Title: Multilevel correlates of methamphetamine use among Black men who have sex with men

Role: Co-Investigator

NIDA R01 DA042711-01 (PI: Birkett) 07/01/2016 - 06/30/2021

Title: Collection of complex network and contextual data in HIV and drug research

Role: Co-Investigator

CFAR Microgrant (PI: Crawford) 01/30/2017 - 01/30/2019

Title: Pharmacy based support for pre-exposure prophylaxis screening, referral and monitoring

Role: Principal Investigator

NIDA R21 DA042727-01 (PI: Cooper) 07/01/2016 - 06/30/2018

Title: Novel methods for research on young rural opioid users at risk of HIV, HCV and OD

Role: Co-Investigator

NIAAA R01 AA020695 (PI: Komro) 07/01/2014 - 06/30/2019

Title: Cherokee Nation Prevention Trial: Interactive Effects of Environment and SBIRT

Role: Co-Investigator

RC1DA028284-02 (PI: Fuller) 09/01/09 - 08/31/11

NIDA “Development of Behavioral and Social Interventions that Reduce Stigma and Improve Health”

Role: Project Director

1R01 DA0022144-01 (PI: Fuller) 09/01/07 - 07/31/12

NIDA “Pharmacy Referral Intervention: IDU Access to Services”

Role: Project Director

1 U01 PS000698-2 (PI: Amesty) 09/30/07 - 09/29/10

CDC “Evaluation of HIV Testing in Pharmacies among Black/Hispanic IDUs in Harlem”

Role: Project Director

1 R01 DA019964-03 (PI: Fuller) 10/01/09 - 7/30/10

NIDA “Social Predictors for Transition into Injection Drug Use”

Role: Diversity Supplement Recipient

R25GM62454 (PI: Abraído-Lanza) 09/01/08-05/31/09
NIH/NIGMS Initiative for Maximizing Student Diversity at Columbia’s Mailman School of Public Health

Role: Research Fellow recipient

1R25GM062454-04 (PI: Abraído-Lanza) 04/01/02-03/31/06
NIH/NIGMS [extended through 3/31/07]
IMSD at Columbia’s Mailman School of Public Health
Role: Research Fellow recipient

**PUBLICATIONS** (\* denotes student contribution)

1. Alohan DA,EvansG, Sanchez T, Harrington KRV, Quamina A, Young HN, **Crawford ND**. Examining pharmacies ability to increase Pre-exposure Prophylaxis access for Black Men Who Have Sex with Men in the United States. Accepted: Journal of American Pharmacist Association.
2. Ali A, Gaglioti A, Stone RH, **Crawford ND**, Dobbin KK, Young HN. Access and utilization of asthma medications among patients who receive care in federally qualified health centers. Accepted: Journal of Primary Care and Community Health.
3. **Crawford ND**, Lewis CF, Pietrandoni G, Moore R. Weidle P. Examining the multi-level barriers of integrating pharmacy-based HIV prevention and treatment services into the Ending the HIV epidemic response. *STDs*. 2022. In press.
4. Borrell L, **Crawford ND.**  Racial and Ethnic Inequities in Health: Examining the Contributions of the *American Journal of Epidemiology* to Advancing the Science. *Am J Epidemiol*. 2022. In press.
5. Romm KF, Patterson B, **Crawford ND**, Posner H, West CD, Wedding D, Horn K, Berg CJ. Changes in young adult substance use during COVID-19 as a function of ACEs, depression, prior substance use and resilience. *Subst Abus*. 2022;43(1):212-221. PMID: 34086537.
6. **Crawford ND**, Harrington KRV\*, Alohan DI\*, Sullivan PS, Holland DP, Klepser DG, Quamina A, Siegler AJ, Young HN. Integrating and Disseminating Pre-Exposure Prophylaxis (PrEP) Screening and Dispensing for Black Men Who Have Sex With Men in Atlanta, Georgia: Protocol for Community Pharmacies. *JMIR Res Protoc*. 2022 Feb 9;11(2):e35590. PMCID: PMC8867290.
7. Crawford ND, Lewis TT. Adding Short-Term Social Pathways for COVID-19-Related Discrimination to Theoretical Frameworks and Structural Interventions. *Am J Public Health*. 2022 Mar;112(3):354-356. PMCID: PMC8887180.

**Crawford ND**, Josma D\*, Harrington KRV, Morris J\*, Quamina A, Birkett M, Phillips Ii G. Using the Think-Aloud Method to Assess the Feasibility and Acceptability of Network Canvas Among Black Men Who Have Sex With Men and Transgender Persons: Qualitative Analysis. *JMIR Form Res*. 2021 Sep 9;5(9):e30237. PMCID: PMC8461526.

Van Dyke ME\*, **Crawford ND**, Lewis TT. Van Dyke et al. Respond to "Methodological Considerations in Investigating Discrimination". *Am J Epidemiol*. 2022 Feb 19;191(3):384-385. doi: 10.1093/aje/kwab224. PMID: 34431496.

 Van Dyke ME\*, Kramer MR, Kershaw KN, Vaccarino V, **Crawford ND**, Lewis TT. Inconsistent Reporting of Discrimination Over Time Using the Experiences of Discrimination Scale: Potential Underestimation of Lifetime Burden. *Am J Epidemiol*. 2022 Feb 19;191(3):370-378. PMID: 34017974.

**Crawford ND**, Myers S\*, Young H, Klepser D, Tung E. The Role of Pharmacies in the HIV Prevention and Care Continuums: A Systematic Review. *AIDS Behav.* 2021 Jun;25(6):1819-1828. PMC8084889

Hussen SA, Camp DM, Jones MD, Patel SA, **Crawford ND**, Holland DP, Cooper HLF. Exploring influences on methamphetamine use among Black gay, bisexual and other men who have sex with men in Atlanta: A focus group study. *Int J Drug Policy*. 2021 Apr;90:103094. PMCID: PMC8380493.

1. Hopkins R\*, Josma D\*, Morris J\*, Klepser DG, Young HN, **Crawford ND**. Support and perceived barriers to implementing pre-exposure prophylaxis screening and dispensing in pharmacies: Examining concordance between pharmacy technicians and pharmacists. *J Am Pharm Assoc*. 2021 Jan-Feb; 61(1):115-120. PMID: 33214059
2. Berg CJ, Duan X, Getachew B, Pulvers K, **Crawford ND**, Sussman S, Ma Y, Jones-Harrell C\*, Henriksen L. Young Adult E-cigarette Use and Retail Exposure in 6 US Metropolitan Areas. *Tob Regul Sci*. 2021 Jan;7(1):59-75. PMCID: PMC8340854.
3. **Crawford ND**, Albarran T\*, Chamberlain A, Hopkins R\*, Josma D, Morris J\*, Onwubiko UN. Willingness to Discuss and Screen for Pre-Exposure Prophylaxis in Pharmacies Among Men Who Have Sex With Men. *J Pharm Pract*. 2021 Oct;34(5):734-740. doi: 10.1177/0897190020904590. Epub 2020 Feb 18. PMID: 32067554.
4. Lewis CF, Lekas HM, Rivera A, Williams SZ, **Crawford ND**, Pérez-Figueroa RE, Joseph AM, Amesty S. Pharmacy PEP Access Intervention Among Persons Who Use Drugs in New York City: iPEPcare Study-Rethinking Biomedical HIV Prevention Strategies. *AIDS Behav*. 2020 Jul;24(7):2101-2111. PMID: 31925608
5. **Crawford ND**, Josma D, Morris J\*, Hopkins R\*, Young HN. Pharmacy-based pre-exposure prophylaxis support among pharmacists and men who have sex with men. *J Am Pharm Assoc*. 2020 Jul-Aug;60(4):602-608. PMCID: PMC7387144.
6. **Crawford ND**, Haardöerfer R, Cooper H, McKinnon I\*, Jones-Harrell C\*, Ballard A, von Hellens SS, Young A. Characterizing the Rural Opioid Use Environment in Kentucky Using Google Earth: Virtual Audit. *J Med Internet Res*. 2019 Oct 4;21(10):e14923. doi: 10.2196/14923. Erratum in: J Med Internet Res. 2020 Aug 12;22(8):e21442. PMCID: PMC6800460.
7. Cooper HLF, **Crawford ND**, Haardörfer R, Prood N, Jones-Harrell C\*, Ibragimov U, Ballard AM, Young AM. Using Web-Based Pin-Drop Maps to Capture Activity Spaces Among Young Adults Who Use Drugs in Rural Areas: Cross-Sectional Survey. *JMIR Public Health Surveill*. 2019 Oct 18;5(4):e13593. doi: 10.2196/13593. PMID: 31628787; PMCID: PMC6913769.
8. Mital S\*, Windle M, Cooper H, **Crawford ND.** Trends in non-medical prescription opioids and heroin co-use among adults, 2003-2014. *Addictive Behaviors*. 2018; 86: 17-23. PMID: 29778489.
9. **Crawford ND**, Moore K, Christine PJ, Barrientos-Gutierrez T, Seeman T, Diez Roux AV. Examining the Role of Neighborhood-Level Foreclosure in Smoking and Alcohol Use Among Older Adults in the Multi-Ethnic Study of Atherosclerosis. *Am J Epidemiol*. 2018 Sep 1;187(9):1863-1870. PMID: 29961880; PMCID: PMC6118061.
10. Ransome Y, Thurber KA, Swen M, **Crawford ND**, German D, Dean LT. Social capital and HIV/AIDS in the United States: Knowledge, gaps and future directions. *SSM Popul Health*. 2018; 30 (5): 73-85. PMID: 29892697
11. Rudolph AE, **Crawford ND**, Latkin C, Lewis CF. Multiplex relationships and HIV: Implications for network-based interventions. *AIDS Behav.* 2017 21(4): 1219-1227. PMID: 27272657. PMCID: PMC5140765.
12. Ransome Y, Dean LT, **Crawford ND**, Metzger DS, Blank MB, Nunn AS. How do social capital and HIV/AIDS outcomes geographically cluster and which sociocontextual mechanisms predict differences across clusters? *J Acquir Immune Defic Syndr*. 2017; 76 (1): 13-22. PMID: 28797017.
13. **Crawford ND,** Ford C, Rudolph A, Kim B, Lewis C. Drug use discrimination predicts formation of high-risk social networks: Examining social pathways of discrimination. *AIDS Behav.* 2017; 21(9): 2659-2669. PMID: 28025736. PMCID: PMC6679928.
14. Christine PJ, Moore K, **Crawford ND**, Barrientos-Gutierrez T, Sanchez BN, Seeman T, Diez Roux AV. Exposure to neighborhood foreclosures and changes in cardiometabolic health: Results from MESA. *Am J Epidemiol*. 2017; 185(2):106-114. PMID: 27986705. PMCID: PMC5253973.
15. **Crawford ND**, Dean T, Rivera AV, Guffey T\*, Amesty S, Rudolph A, DeCuir J, Fuller CM. Pharmacy Intervention to Improve HIV Testing Uptake Using a Comprehensive Health Screening Approach. *Public Health Rep*. 2016;131 Suppl 1:139-46. PMID: 26862239; PMCID: PMC4720615.
16. Chen Y\*, Cooper HLF, Windle M, Haardörfer R, **Crawford ND**, Chen WJ, Chen CY. Residential environments, alcohol advertising, and initiation and continuation of alcohol consumption among adolescents in urban Taiwan: A prospective multilevel study. *SSM Popul Health.* 2016; 2:249-58. PMID: 29349145. PMCID: PMC5757890.
17. Fuller Lewis C, Rivera A\*, **Crawford ND**, Gordon K, White K, Vlahov D, Galea S. Individual and neighborhood characteristics associated with HIV among black and Latino adults who use drugs and unaware of their HIV-positive status, New York City, 2000-2004. *J Racial Ethn Health Disparities*. 2016;3(4):573-81. PMID: 27294761.
18. Amesty S, **Crawford ND**, Nandi V, Perez-Figueroa R, Rivera A\*, Sutton M, Weidle PJ, Willis L, Smith DK, Hernandez C, Harripersaud K, Fuller Lewis C. Evaluation of Pharmacy-Based HIV Testing in a High-Risk New York City Community*. AIDS Patient Care STDs*. 2015; 29(8):437-44. PMID: 26217930.
19. Lewis CF, Rivera AV, **Crawford ND**, DeCuir J, Amesty S. Pharmacy-randomized intervention delivering HIV prevention services during the syringe sale to people who inject drugs in New York City. *Drug Alcohol Depend*. 2015; 1:153:72-7. PMCID: PMC6688752.
20. Rivera AV, DeCuir J, **Crawford ND**, Amesty S, Harripersaud K, Lewis CF. Factors associated with HIV stigma and the impact of a nonrandomized multi-component video aimed at reducing HIV stigma among a high-risk population in New York City. *AIDS Care*. 2015;27(6):772-6. PMCID: PMC4366318.
21. Rivera AV\*, Decuir J, **Crawford ND**, Amesty S, Lewis CF. Internalized stigma and sterile syringe use among people who inject drugs in New York City, 2010-2012. *Drug Alcohol Depend*. 2014; 144:259-64. PMCID: PMC4254372.
22. Turner AK, Jones KC, Rudolph A, Rivera AV\*, **Crawford ND**, Lewis CF. Physical victimization and high-risk sexual partners among illicit drug-usering heterosexual men in New York City. *J Urban Health*. 2014;91(5):957-68. PMCID: PMC4199442.
23. **Crawford ND**, Amesty S, Rivera A, Harripersaud K\*, Turner A, Cook S, Fuller CM. Community impact of pharmacy-randomized intervention to improve access to syringes and services for injection drug users. *Health Educ Behav*. 2014; 41(4): 397-405. PMID: 24722219.
24. **Crawford ND**, White K, Jones K, Benjamin EO, Rudolph AE, Fuller CM. The relationship between multiple forms of discrimination, neighborhood characteristics, and depression among illicit drug users in New York City. *J Drug Issues*. 2014; 44(2):197-211. PMCID: PMC4474473.
25. **Crawford ND**, Rudolph AE, Fuller CM. Racial/ethnic differences in recent drug detoxification enrollment and the role of discrimination and neighborhood factors. *Subst Use Misuse*. 2014; 49(1-2):124-33 PMCID: PMC4333133.
26. **Crawford ND,** Galea S, Ford C, Latkin C, Link B, Fuller C. The relationship between discrimination and high-risk social ties by race/ethnicity: Examining social pathways of HIV risk. *J Urban Health*. 2014; 91(1):151-161. PMCID: PMC3907620.
27. **Crawford ND**, Amesty S, Rivera A, Harripersaud K\*, Turner A, Cook S, Fuller C. Randomized, community-based pharmacy intervention to expand services beyond sale of sterile syringes to injection drug users in pharmacies in New York City. *Am J Public Health*. 2013; 103(9):1579-82. PMCID: PMC3780671.
28. Sapra KJ, **Crawford ND**, Rudolph AE, Jones KC, Benjamin EO, Fuller CM. Social network members’ roles and use of mental health services among drug users in New York City. *J Behav Health Serv Res*. 2013; 40(4):476-487. PMCID: PMC3899847.
29. Rudolph AE, **Crawford ND**, Latkin C, Fowler JH, Fuller CM. [Individual and neighborhood correlates of membership in drug using networks with a higher prevalence of HIV in New York City (2006-2009).](http://www.ncbi.nlm.nih.gov/pubmed/23523090) *Ann Epidemiol*. 2013; 23(5):267-274. PMCID: PMC3640756.
30. Rudolph A, Crawford ND, Fuller C. Response to letter to the editor: regarding Individual and neighborhood correlates of membership in drug-using networks with a higher prevalence of HIV (2006-2009). Ann Epidemiol. 2013; 23(10):666-668. PMCID: PMC4203312.
31. **Crawford ND,** Borrell LN, Ford C, Galea S, Latkin C, Fuller CM. The influence of neighborhood characteristics on the relationship between discrimination and increased drug-using social ties among illicit drug users. *J Community Health*. 2013; 38(2):328-37. PMCID: PMC3658117.
32. Turner AK, Harripersaud K, **Crawford ND**, Rivera AV, Fuller CM. Differences in HIV risk behavior of injection drug users in New York City by health care setting. *AIDS Care*. 2013;25(10):1321-9. PMCID: PMC3728172.
33. Latkin C, Davey-Rothwell M, Yang JY, **Crawford ND**. The relationship between drug user stigma and depression among inner-city drug users in Baltimore, MD. *J Urban Health*. 2013; 90(1):147-56. PMCID: PMC3579309.
34. White K, Rudolph AE, Jones KC, Latkin C, Benjamin EO, **Crawford ND**, Fuller CM. Social and Individual Risk Determinants of HIV Testing Practices among Non-Injection Drug Users at High Risk for HIV/AIDS. *AIDS Care*. 2013; 25(2):230-8. PMCID: PMC3783216.
35. **Crawford ND,** Ford C, Galea S, Latkin C, Jones KC, Fuller CM. The relationship between perceived discrimination and high-risk social ties among illicit drug users in New York City, 2006-2009. *AIDS Behav*. 2013; 17(1):419-426. PMID: 22638866. PMCID: PMC6679926.
36. **Crawford ND**, Rudolph AE, Jones K, Benjamin E, Fuller C. Differences in self-reported discrimination by primary type of drug used among New York City (NYC) drug users. *Am J Drug Alcohol Abuse*. 2012; 38(6):588-92. PMCID: PMC3686105.
37. Amesty S, Blaney S, **Crawford ND**, Rivera AV, Fuller C. Pharmacy staff characteristics associated with support for pharmacy-based HIV testing. *J Am Pharm Assoc*. 2012; 52(4):472-9. PMCID: PMC3703741.
38. Ompad DC, Nandi V, Cerdá M, **Crawford ND**, Galea S, Vlahov D. Beyond income: Material resources among drug users in economically-disadvantaged New York City neighborhoods. *Drug Alcohol Depend*. 2012; 120(1-3):127-34. PMCID: PMC3225725.
39. Borrell LN, **Crawford ND**. Socioeconomic position indicators and periodontitis: Examining the evidence. *Periodontol 2000*. 2012; 58(1):69-83. PMCID: PMC3233193.
40. Rudolph AE, **Crawford ND**, Latkin C, White K, Benjamin EO, Jones K, Fuller CM. Individual, study, and neighborhood level characteristics associated with peer recruitment of young illicit drug users in New York City: optimizing respondent driven sampling. *Soc Sci Med*. 2011; 73(7):1097-104. PMCID: PMC3171638.
41. Rudolph AE, Jones KC, Latkin C, **Crawford ND**, Fuller CM. The association between parental risk behaviors during childhood and having high risk networks in adulthood. *Drug Alcohol Depend*. 2011; 118(2-3):437-43. PMCID: PMC3178717.
42. Rudolph AE, Latkin C, **Crawford ND**, Jones KC, Fuller CM. Does respondent driven sampling alter the social network composition and health-seeking behaviors of illicit drug users followed prospectively? *PloS One*. 2011; 6;6(5):e19615. PMCID: PMC3089627.
43. Rudolph AE, **Crawford ND**, Latkin C, Heimer R, Benjamin EO, Jones KC, Fuller CM. [Subpopulations of illicit drug users reached by targeted street outreach and respondent-driven sampling strategies: Implications for research and public health practice.](http://www.ncbi.nlm.nih.gov/pubmed/20528131) *Ann Epidemiol*. 2011; 21(4):280-9. PMCID: PMC3062521.
44. **Crawford ND**, Blaney S, Amesty S, Rivera A, Turner AK, Ompad DC, Fuller CM. Individual- and neighborhood-level characteristics associated with support of in-pharmacy vaccination among ESAP-registered pharmacies: Pharmacists’ role in reducing racial/ethnic disparities in influenza vaccinations in New York City. *J Urban Health*. 2011; 88(1):176-85. PMCID: PMC3042083.
45. Collins PY, von Unger H, Putnins S, **Crawford ND**, Dutt R, Hoffer M. Adding the female condom to HIV prevention interventions for women with severe mental illness: A pilot test. *Community Ment Health J*. 2011; 47(2):143-55. PMCID: PMC2930932.
46. **Crawford ND**, Jones CP, Richardson LC. Understanding racial and ethnic disparities in colorectal cancer screening: Behavioral risk factor surveillance system, 2002 and 2004. *Ethn Dis*. 2010; 20(4):359-65. PMID: 21305822.
47. **Crawford ND**, Vlahov D. Progress in HIV Reduction and Prevention Among Injection and Non-Injection Drug Users. *J Acquir Immune Defic Syndr*. 2010; 55:S84-7. PMCID: PMC3298118.
48. Rivera AV, Blaney S, **Crawford ND**, White K, Stern RJ, Amesty S, Fuller C. Individual- and neighborhood-level factors associated with nonprescription counseling in pharmacies participating in the New York State Expanded Syringe Access Program. *J Am Pharm Assoc*. 2010; 50(5):580-7. PMCID: PMC3575749.
49. Rudolph AE, Standish K, Amesty S, **Crawford ND**, Stern RJ, Badillo WE, Boyer A, Brown D, Ranger N, Orduna JM, Lasenburg L, Lippek S, Fuller CM. [A community-based approach to linking injection drug users with needed services through pharmacies: an evaluation of a pilot intervention in New York City.](http://www.ncbi.nlm.nih.gov/pubmed/20528131) *AIDS Educ Prev*. 2010; 22(3):238-51. PMCID: PMC2883795.
50. Rudolph AE, **Crawford ND**, Ompad DC, Benjamin EO, Stern RJ, Fuller CM. Comparison of injection drug users accessing syringes from pharmacies, syringe exchange programs, and other syringe sources to inform targeted HIV prevention and intervention strategies. *J Am Pharm Assoc*. 2010; 50(2):140-7. PMCID: PMC3222463.
51. Barrington DS, Baquero MC, Borrell LN, **Crawford ND**. Racial/ ethnic disparities in obesity among US-born and foreign-born adults by sex and education. *Obesity*. 2010; 18(2): 422-4. PMID: 19590501.
52. Borrell LN, **Crawford ND**. Social disparities in periodontitis among US adults: the effect of allostatic load. *J Epidemiol Community Health*. 2011; 65(2):144-9. PMID: 19996354.
53. Borrell LN, **Crawford ND**, Dallo FJ, Baquero MC. Self-reported diabetes in Hispanic subgroup, non-Hispanic black and non-Hispanic white populations: The National Health Interview Survey, 1997-2005. *Public Health Rep*. 2009; 124(5):702-10. PMCID: PMC2728662.
54. Borrell LN, **Crawford ND**. All-cause mortality among Hispanics in the United States: exploring heterogeneity by nativity status, country of origin, and race in the National Health Interview Survey-linked Mortality files. *Ann Epidemiol*. 2009; 19(5): 336-343. PMID: 19230710.
55. Borrell LN, **Crawford ND**, Huynh M, Dumanovsky T. Self-reported hypertension and race among Hispanic and non-Hispanic adults: The New York City Community Health Survey. *Ethn Dis*. 2008; 18(3):299-305. PMID: 18785443.
56. Borrell LN and **Crawford ND**. Disparities in self-reported hypertension in Hispanic subgroups, non-Hispanic black and non-Hispanic white adults: the national health interview survey. *Ann Epidemiol*. 2008; 18(10):803-12. PMCID: PMC2604123.
57. Borrell LN, **Crawford ND**, Barrington DS, Maglo KN. Black/ white disparity in self-reported hypertension: the role of nativity status. *J Health Care Poor Underserved*. 2008; 19(4):1148-62. PMID: 19029742.
58. Borrell LN and **Crawford ND**. Social disparities in periodontitis among United States adults 1999-2004. *Community Dent Oral Epidemiol*. 2008; 36(5):383-91. PMID: 18924254.
59. **Crawford ND**, Jones CP, Richardson LC. Understanding the role of reactions to race-based treatment in breast and cervical cancer screening. *J Natl Med Assoc*. 2008; 100(2):188-96. PMID: 18300536.
60. Borrell LN, **Crawford ND**, Dailo FJ. Race/ethnicity and self-reported diabetes among adults in the National Health Interview Survey: 2000-2003. *Public Health Rep*. 2007; 122(5):616-25. PMCID: PMC1936960.
61. Borrell LN and **Crawford ND**. Race, ethnicity and self-rated health status in the Behavioral Risk Factors Surveillance System Survey. *Hisp J Behav Sci*. 2006; 28(3):387-403.

**Publications submitted and in progress:**

1. **Crawford ND**, Harrington K\*, Romm K, Berg C. Examining the multi-level correlates of geographic mobility during the COVID-19 pandemic among a young adult sample. In progress. Under review: Journal of Urban Health.
2. Josma D\*, Morris J\*, Hopkins R\*, Quamina A, Clue J, Sullivan P, Holland D, Siegler AJ, **Crawford ND**. Examining whether vignettes reduce stigma of pre exposure prophylaxis access in pharmacies among black men who have sex with men in qualitative research. Under Review: Journal of Pharmacy Practice.

**Crawford ND,** Hicken M,Imbody C\*, Livingston M. Examining prevalence of non-medical prescription opioid use by race and ethnicity from 2015-2019 among a national sample. In progress.

Morris J\*, Klepser D, Young H, **Crawford ND**. A comparison of HIV prevention policy across four states. In progress.

**Book Chapters:**

1. Lewis CF, **Crawford ND**. Multilevel Interventions/ Structural Approaches to HIV Prevention. Encyclopedia of AIDS. Eds. Hope TJ, Richman D, Stevenson M. New York, NY: Springer 2015.
2. Lamster, IB and **Crawford ND**. “The Oral Disease Burden faced by Older Adults.” Improving Oral Health for the Elderly: An interdisciplinary Approach. Eds Lamster, IB and Northridge, M. New York, NY: Springer 2008.

**PRESENTATIONS AND CONFERENCE PROCEEDINGS**

*Invited presentations:*

December 2021 Researcher Meet and Greet: Pharmacy-based approaches for engaging populations in HIV research

 National Institutes of Mental Health and the Office of AIDS Research, Bethesda, Maryland

November 2021 CDC Science Seminar - Pharmacy-based approaches to improving HIV and substance use related harms in high-risk communities

 Division of Viral Hepatitis, Centers for Disease Control and Prevention, Atlanta Georgia

October 2021 Preventing HIV in people who use substances: A symposium

 The Inter-CFAR Substance Use Research Community

 Providence Rhode Island, Boston Massachusetts

May 2021 Rural Health Conference – The Role of Pharmacies Panel

 Division of STD Prevention, Centers for Disease Control and Prevention, Atlanta Georgia

March 2020 Pharmacy-based approaches to improving HIV and substance use related harms in high-risk communities

 Southeast AIDS Education Training Center, Vanderbilt University

March 2020 Pharmacy-based approaches to improving HIV and substance use related harms in high-risk communities

 Center for the Study of Drugs, Alcohol, Smoking and Health, University of Michigan, School of Nursing

*Oral peer-reviewed presentations:*

Alohan DA,EvansG, Sanchez T, Harrington KRV, Quamina A, Young HN, **Crawford ND**. Examining pharmacies ability to increase Pre-exposure Prophylaxis access for Black Men Who Have Sex with Men in the United States. American Public Health Association. Boston, MA, 2022.

**Crawford ND.** Pharmacy based approaches to improving substance use related harms and HIV in high risk communities.Atlanta Harm Reduction Coalition Conference. Virtual Conference, 2020.

Imbody C\*, Livingston M, **Crawford ND**. Examining prevalence of non-medical prescription opioid use by race and ethnicity from 2015-2018 among a national sample. Atlanta Harm Reduction Coalition Conference. Virtual Conference, 2020.

**Crawford ND**, Latkin C, Galea S, Ford C, Fuller C. The association between racial discrimination and sexual risk networks: Examining pathways for racial/ ethnic disparities in HIV. Tenth International Conference on Urban Health. Belo Horizonte, Brazil, 2011.

**Crawford ND**, Latkin C, Galea S, Ford C, Jones K, Link B, Fuller C. Social discrimination and sexual risk networks: Understanding the socio-contextual process of HIV transmission among illicit drug users in New York City (NYC). HIV Prevention Conference. Atlanta, GA, 2011.

**Crawford ND**, Jones K, Rudolph A, Fuller C. Examining the association between discrimination and high-risk drug using network membership: Understanding the socio-contextual process of HIV transmission among drug users in New York City (NYC). International Conference on Urban Health. New York, NY 2010.

**Crawford ND**, Jones K, Fuller C. The influence of discrimination and neighborhood level characteristics on depression among illicit drug users in New York City (NYC). Eighth International Conference on Urban Health. Nairobi, Kenya 2009.

**Crawford ND**, Jones K, BenjaminE, Fuller C. Differences in self-reported discrimination by primary type of drug used among New York City (NYC) drug users. Eighth International Conference on Urban Health. Nairobi, Kenya 2009.

**Crawford ND**, Blaney S, Amesty S, Fuller C. Influence of pharmacy attitudes to injection drug users (IDUs) on pharmacy syringe sales through the Expanded Syringe Access Program (ESAP) in New York City. Eighth International Conference of Urban Health. Nairobi, Kenya 2009.

Amesty S, Blaney S, **Crawford ND**, Stern R, Fuller C. Demographic and supervisor-level predictors of ESAP support among non supervising pharmacy staff. Eighth International Conference of Urban Health. Nairobi, Kenya 2009.

Amesty S, Stern R\*, **Crawford ND**, Fuller C. Differences in Chain and independent pharmacists’ attitudes towards HIV prevention services: Preliminary PHARM-Link Study findings. National HIV Prevention Conference. Atlanta, Georgia 2009.

Stern R\*, Amesty S, **Crawford ND**, Fuller C. Differences between pharmacists and pharmacy technician attitudes towards HIV prevention services: Preliminary PHARM-Link Study findings. National HIV Prevention Conference. Atlanta, Georgia 2009.

Amesty S, Stern R\*, **Crawford ND**, Fuller C. Attitudes towards provision of HIV testing services in pharmacies among New York City pharmacists and pharmacy technicians. National HIV Prevention Conference. Atlanta, GA 2009.

**Crawford ND**, Blaney S, Standish K, Amesty S, Fuller C. Expanding services to injection drug users (IDUs) in pharmacies reduces risky behaviors and facilitation of HIV transmission: Pilot results from the PAT-Link study. 7th National Harm Reduction Conference. Miami, FL 2008.

**Crawford ND**, Standish K, Amesty S, Fuller C. Pharmacy staff characteristics and perceptions of injection drug using syringe customers in Expanded Syringe Access Program (ESAP)-registered pharmacies in New York City. 7th National Harm Reduction Conference. Miami, FL 2008.

Amesty S, Standish KR, **Crawford ND**, Fuller CM. Pharmacy-based HIV testing and referral to non-prescription syringe customers**.** American Public Health Association Annual Meeting. San Diego, CA October 2008.

Standish KR, Blaney S, **Crawford ND**, Fuller CM. Syringe deregulation: Are pharmacies reaching high-risk injectors? Roundtable at American Public Health Association Annual Meeting. San Diego, CA October 2008.

Borrell LN, **Crawford ND**, Vaughn RD. Measuring and Documenting disparities in Periodontal Disease. IADR/AADR/ CADR 85th General Session and Exhibition, New Orleans, LA, March 21-24, 2007.

Borrell LN, **Crawford ND**. Social Disparities in Periodontal Disease: The NHANES 1999-2004. IADR/AADR/ CADR 85th General Session and Exhibition, New Orleans, LA, March 21-24, 2007.

***Panels and Roundtables:***

**Crawford, ND.** Achieving health equity in HIV, substance use, and trauma prevention and treatment: Mentoring to dismantle structural racism. American Public Health Association. Boston, MA, 2022.

**Crawford, ND.** Community pharmacy-based models to expand access to medications to address the opioid epidemic and the health of persons who use drugs. College on Problems of Drug Dependence. Virtual conference. June 2021.

**Crawford ND,** Ford C, Rudolph A, Kim B\*, Fuller C. Drug use discrimination predicts formation of high-risk social ties: Examining social pathways of discrimination. American Public Health Association, Chicago, Illinois. October 2015.

Rivera AV\*, RudolphA, **CrawfordND**, AmestyS, JaniB, LewisCF. Impact of an educational video on knowledge of non-occupational post-exposure prophylaxis for HIV prevention among a high-risk New York City population: The iPEPcare Study. American Public Health Association, Chicago, Illinois. October 2015.

***Posters:***

**Crawford ND**, Chamberlain A, Onwubiko U, Josma D, Morris J\*. Willingness to screen for pre-exposure prophylaxis in pharmacies among men who have sex with men. International AIDS Society. Mexico City, Mexico. July 2019.

**Crawford ND,** Ford C, Rudolph A, Kim B\*, Fuller C. Drug use discrimination predicts formation of high-risk social ties: Examining social pathways of discrimination. Center for AIDS Research Social and Behavioral Science Research Network Meeting. Miami, Florida. October 2016.

Chen YT\*, Kao IT, Kao IC, **Crawford ND**, Cooper HLF: Using Google Street View to audit alcohol access environment in an urban setting in Taiwan. Poster Presentation. 2015 U.S. Public Health Service Scientific and Training Symposium, Atlanta, Georgia. May 2015.

\***2015 U.S. Public Health Service Scientific and Training Symposium, Poster Award**\*

**Crawford ND**, Jones K, Fuller C. Examining the relationship between racial discrimination, depression and risky social networks among illicit drug users. American Psychological Association. Washington, DC, 2011.

**Crawford ND**, Jones K, Fuller C. Racial/ ethnic differences in recent drug detoxification enrollment and the association between discrimination and neighborhood factors in New York City drug users. College on Problems of Drug Dependence. Scottsdale, Arizona 2010.

**Crawford ND**, Amesty S, Hensel K, Ompad D, Fuller C. Individual characteristics associated with support of in-pharmacy vaccination: Preliminary findings from the Pharmacies as Resources Making Links to Community Services (PHARM-Link) study. 137th Annual American Public Health Association Meeting. Philadelphia, Pennsylvania 2009.

**Crawford ND**, Blaney S, Amesty S, Fuller C. Pharmacy and neighborhood level predictors of Expanded Syringe Access Program support and syringe customer utilization. Society for Epidemiology Research Conference. Anaheim, California 2009

**Crawford ND**, Blaney S, Amesty S, Fuller C. Pharmacy and neighborhood level characteristics associated with in-pharmacy vaccination. Society for Epidemiology Research Conference. Anaheim, California 2009.

Rudolph AE, White K, Benjamin EO, **Crawford ND**, Jones K, Fuller CM. Respondent Driven Sampling: Optimizing peer recruitment by selecting seeds with recruitment potential, NYC (2006-2007). American Public Health Association Annual Meeting. San Diego, CA October 2008.

Hernandez C, Stern R\*, **Crawford ND**, Standish K, Fuller C. Implementation and maintenance of the Expanded Syringe Access Program (ESAP) in New York City Pharmacies. American Public Health Association Annual Meeting. San Diego, CA October 2008.

**Crawford ND**, Standish KR, Rudolph A, Trezza C, Fuller CM. Primary Prevention in pharmacies: Capability and considerations when expanding healthcare services. World AIDS Conference, Mexico City, MX, August 2008.

**Crawford ND**, Standish KR, Blaney S, Vlahov D, Fuller CM. Understanding syringe disposal practices among injection drug users (IDUs) in New York City (NYC): Results from the PAT-Link Pilot Study. World AIDS Conference, Mexico City, MX, August 2008.

Standish KR, Blaney S, **Crawford ND**, Rudolph A, White K, Fuller CM. Injectors’ perceptions and attitudes toward pharmacies as syringe sources. World AIDS Conference, Mexico City, MX, August 2008.

White K, Benjamin EO, Rudolph AE, **Crawford ND**, Fuller CM. Syphilis testing among drug users in New York City. World AIDS Conference, Mexico City, MX, August 2008.

**Crawford ND**, Standish KR, Vlahov D, Fuller CM. Feasibility of Expanded Services for Pharmacy Syringe Customers. The College on Problems of Drug Dependence, San Juan, PR, June 2008.

Standish KR, **Crawford ND**, Blaney S, Fuller CM, Vlahov D. The PATL-Link Study: Pharmacies as the linkages to community services, Robert Wood Johnson- The Substance Abuse Policy Research Program, Amelia Island, FL, December 7, 2007.

Richardson LC, **Crawford ND**, Jones CP. Perceived socially assigned race/ ethnicity: Hispanics and colorectal cancer screening, BRFSS 2002 and 2004. 24th annual Behavioral Risk Factor Surveillance System (BRFSS), Decatur, GA, March 2007.

**Crawford ND**, Richardson LC. Understanding Racial Disparities in Colorectal Cancer Screening Practices: Behavioral Risk Factor Surveillance Survey (BRFSS) 2002 and 2004. 10th Biennial Symposium on Minorities, the Medically Underserved & Cancer, Washington, DC, April 19-23, 2006.

**Crawford ND**, LeMelle SM, Collins P.  Economic Realities of Mentally Ill Women: Challenges for Intervention.  57th Institute on Psychiatric Services, San Diego, California, October 5-9, 2005.

MEDIA COVERAGE

Interviewed by NBCnews.com for its article “To cope with pandemic stress, many women turned to alcohol, continuing a worrying trend.” (<https://www.nbcnews.com/health/health-news/cope-pandemic-stress-many-women-turned-alcohol-continuing-worrying-trend-n1241572>)

TEACHING AND MENTORING

Course Instruction

Socio-behavioral Measurement, BSHES 542 (3 credit hours). BSHES Department, Rollins School of Public Health, Emory University, Graduate Course.

* Fall 2021
* Fall 2019
* Fall 2018
* Spring 2017

Introductory Epidemiology, PH 7011 (3 credit hours). School of Public Health, Georgia State University, Graduate Course.

* Summer 2015, 16 students
* Spring 2015, 34 students
* Fall 2015, 34 students
* Spring 2014, 34 students

Epidemiological Measurement of Social Determinants of Health, PH 8100 (3 credit hours). School of Public Health, Georgia State University, Graduate Course.

* Summer 2015, 14 students

Project Imhotep and Public Health Leaders Fellowship Program, Morehouse College, Undergraduate Mentorship Program.

* Summer 2021
* Summer 2019
* Summer 2018
* Summer 2017
* Summer 2016

Approaches to Race in Epidemiology, EPIC Summer Program, Columbia University.

* Summer 2012

Rollins School of Public Health Guest Lectures

Spring 2018 History of Public Health (BSHES 579)

Spring 2018 – Present Social Epidemiology (EPI 591)

Spring 2017 Behavioral and Social Sciences in Public Health (BSHES 500)

Fall 2016 – Fall 2019 Behavioral Epidemiology (BSHES 516)

Fall 2016 Grant Writing (BSHES 569)

Fall 2016 Measurement in Health Behavior Research

Spring 2016 – Present Global Health Fellows

Spring 2016 – Spring 2018 Macro social Determinants of Health (BSHES 535)

Fall 2015 Approaches to the Science of Health Promotion

Fall 2015 – Present Theory- Driven Research and Practice (BSHES 520)

Invited Lectures and Panels

Fall 2010 Course Title: Application of Research Methods in Public Health

Lecture Title: *From the Research Question to the Hypothesis – Sampling Methods & Descriptive Statistics*

 Department of Health Sciences, Graduate Program in Public Health

 Lehman College, City University of New York

Spring 2010 Course Title: Research Methods in Public Health

Lecture Titles: *Approaches to research & research paradigms, generating research questions, study design and approaches to research and ethics of research; Observational Research Designs*

Department of Nutrition, Food Studies and Public Health, Steinhardt School of Culture, Education, and Human Development

 New York University

Fall 2008 - 2010 Course Title: Social and Behavioral Determinants of Health

 Lecture Title: *Race, racism and health*

Department of Nutrition, Food Studies and Public Health, Steinhardt School of Culture, Education, and Human Development

 New York University

Winter 2009 Course Title: Foundations of Public Health II: Epidemiology and Biostatistics

Lecture Titles: *Observational Research Designs; Biostatistics; Research Data Analysis II*

Touro College of Pharmacy, New York, NY

Summer 2006 Course Title: Research Methods in Epidemiology

*Teaching Assistant*

Department of Epidemiology

 Columbia University, New York, NY

Doctoral Dissertations

Graduated Doctoral Students

2020 Juan Rodriguez (BSHES): The role of acculturation, access to care and socio-economic status on breast cancer screening among Hispanic women in the United States

 Role: Committee Member

2020 Miriam vanDyke (EPI): Socioeconomic Status Discrimination and Cardiovascular Disease Risk in African-American and White Adults

Role: Committee Member

2018 Sasha Mital (BSHES): Trends in non-medical prescription opioid and heroin co-use and medication assisted treatment utilization

 Role: Chair

2016 Yenting Chen (BSHES): Area-level characteristics, alcohol advertising, and adolescent alcohol use behaviors in Taiwan: A mixed methods approach

 Role: Committee Member

Current Doctoral Students

Daniel Alohan (BSHES)

Christina Chandra (EPI)

Kristin Harrington (EPI)

Izraelle McKinnon (EPI)

**Masters Theses**

2020 Conner Imbody (BSHES): Examining prevalence of non-medical prescription opioid use by race and ethnicity from 2015-2018 among a national sample

 Role: Chair

2017 Dahana Sejour (BSHES): Prevalence of Pregnancy-related Complication among Pregnant Women with CHD Enrolled in Medicaid during 1999 - 2013

 Role: Committee Member

 \*Finalist for Shepard Award for outstanding thesis

2016 Joelle Atere-Roberts (Georgia State – Epidemiology): Understanding the role of Reactions to Race-based Treatment on HIV testing behaviors

 Role: Chair

2014 Ishaka Oche (Georgia State – Epidemiology): Health care access, utilization and barriers among people who inject drugs who purchase syringes from pharmacies

Role: Chair

2014 Sarita Pathak (Georgia State – Epidemiology): Exploratory Assessment of Manufactured E-Liquids and Do It Yourself (DIY) E-Liquids

 Role: Committee Member

2014 Taylor Guffey (Georgia State – Epidemiology): Analysis of Predictors of Unmet HIV-related Support Services among HIV-infected Individuals in Care in Georgia

Role: Committee Member

**Current Masters of Public Health Students**

Diego Cruz

**Former Masters of Public Health Students**

Conner Imbody

Taylor Alberran

Gabrielle Evans

Alexis Rivera

Katherine Harripersaud

Sky Myers

Shayla Nolen

Shane Conyers

Sarah Wiatrek

Roderick Hopkins

Joseph Morris

Dorie Josma

Marque Long

Dahanah Sejour

Izraelle McKinnon

Joelle Atere-Roberts

Liliana Chacon

Sarita Pathak

Taylor Guffey

**SERVICE**

**Departmental (BSHES)**

2020-Present Doctoral Program Committee

2020-2021 Diversity, Equity and Inclusion Committee

2019-2020 Masters in Public Health Curriculum Committee

2017-Present Community Connected Department Advisory Committee

2017-Present Office of Evidence Based Learning Advisory Committee

**RSPH Committees**

2016 Scholars in Action Book Discussant

2015-2020 Research Administration Committee

2015 Association of Black Public Health Students Faculty Student Networking

**Professional Associations**

2020-Present College on Problems of Drug Dependence

2013-Present RWJ Health and Society Scholars Alumni Network

2015-Present Society Epidemiologic Research

2015-Present American Public Health Association

2011-2013 International Society on Urban Health

**National**

2020-Present Grant Reviewer, Centers for Disease Control and Prevention Special Emphasis Panel

2021 Guest Reviewer, Community Influences on Health Behavior, Center for Scientific Review, National Institute of Health

JOURNAL REVIEWS

AIDS and Behavior

American Journal of Epidemiology

American Journal of Public Health

Community Dentistry and Oral Epidemiology

Drug and Alcohol Dependence

Epidemiology

Ethnicity and Disease

Health Affairs

Health Education and Behavior

Journal of American Pharmacy Association

Journal of Drug Issues

Journal of Urban Health

Social Science and Medicine

Substance Use and Misuse