

## **NATALIE D. CRAWFORD, PHD**

Behavioral, Social and Health Education Sciences  
Rollins School of Public Health at Emory University  
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Atlanta, GA 30322  
Email: [ndcrawford@emory.edu](mailto:ndcrawford@emory.edu)

### **EDUCATION**

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**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

### **HONORS, DISTINCTIONS AND AWARDS**

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- 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 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

## **PROFESSIONAL EXPERIENCE**

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- 2015 – Present      *Assistant Professor*  
Behavioral Sciences and Health Education  
Rollins School of Public Health  
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
- 2006                *Research Assistant*  
Center for the Health of Urban Minorities  
Columbia University, New York, NY
- 2004 – 2006        *Research Assistant*  
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

## **RESEARCH FUNDING**

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### **Active**

NIMH 1R34MH119007-01 (PI: Crawford)                      08/01/2019 – 06/30/2022  
Title: Advancing pre-exposure prophylaxis (PrEP) access in pharmacies to improve PrEP uptake in disadvantaged areas  
Role: Principal Investigator

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 – 08/31/2021  
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

NIH/NIAID 2P30A1050409-10 (PI: Del Rio)                      08/01/2019 – 07/31/2020  
Title: Center for Aids Research – 03  
Role: Co-Investigator

NIDA Loan Repayment Program                      2011 – 2014; 2019-2020  
Title: Understanding social determinants of health and health disparities  
Role: Principal Investigator

### **Inactive**

UG3 DA044798-01 (PI: Young and Cooper)                      08/14/2017 - 08/01/2019  
Title: Kentucky Communities and Researchers Engaging to Halt the Opioid Epidemic (CARE2HOPE)  
Role: Co-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

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

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**

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1. **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 and Behavior*. 2021. In press. PMID: 33386509
2. Hussen S, Camp D, Jones M, Patel S, **Crawford ND**, Holland D, Cooper H. Exploring trends in methamphetamine use among Black gay men in Atlanta: A focus group study. *International Journal of Drug Policy*. 2021. In press. PMID: 33429161
3. Hopkins R\*, Josma D\*, Morris J\*, Klepser D, Young H, **Crawford ND**. Support and perceived barriers to implementing pre-exposure prophylaxis screening and dispensing in pharmacies: Examining concordance between pharmacy technicians’ and pharmacists’.

Journal of the American Pharmacists Association. 2020; 61(1): 115-120. PMID: 33214059

3. Berg C J, 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. *Tobacco Regulatory Science*. In press.
4. **Crawford ND**, Albarran T\*, Chamberlain A, Hopkins R\*, Josma D, Morris J\*, Onwubiko U. Willingness to discuss and screen for pre-exposure prophylaxis in pharmacies among men who have sex with men. *Journal of Pharmacy Practice*. 2020. In press. PMID: 32067554
5. Lewis C, Lekas HM, Rivera A\*, **Crawford ND**, Perez-Figueroa R, Joseph A, Cunto-Amesty S. Pharmacy intervention to increase access to post-exposure prophylaxis among persons who use drugs un New York City: iPEPcare Study. *AIDS and Behavior*. 2020; 24(7): 2102-2111. PMID: 31925608
6. **Crawford ND**, Josma D, Morris J\*, Hopkins R\*, Young H. Pharmacy-based pre-exposure prophylaxis support among pharmacists and men who have sex with men. In press. *Journal of American Pharmacist Association*. 2020; 60(4): 602-608. PMID: 32007364
7. **Crawford ND**, Haardöerfer R, Cooper H, McKinnon I\*, Jones-Harrell C\*, Ballard A, von Hellens SS, Young A. Reliability of virtual audits using Google Earth to characterize the rural opioid use environment in Kentucky. *Journal of Medical Internet Research*. 2019; 21(10): e14923. PMID: 31588903
8. Cooper H, **Crawford ND**, Haardöerfer R, Prood N, Jones-Harrell C\*, Ibragimov I, Ballard A, Young A. On point: Using online pin drop maps to capture activity spaces among young adults who use drugs in rural areas. *Journal of Medical Internet Research*. 2019; 5(4): e13593. PMID: 31628787
9. 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
10. **Crawford ND**, Diez-Roux A, Moore K, Christine P, Seeman T. Examining the role of neighborhood-level foreclosure on smoking, alcohol use and incident depression. *American Journal of Epidemiology*. 2018; 187 (9): 1863-1870. PMID: 29961880
11. 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. *Social Science and Medicine Population Health*. 2018; 30 (5): 73-85. PMID: 29892697

12. Rudolph AE, **Crawford ND**, Latkin C, Lewis CF. Multiplex relationships and HIV: Implications for network-based interventions. *AIDS and Behavior*. 2017 21(4): 1219-1227. PMID: 27272657.
13. 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? *Journal of Acquired Immune Deficiency Syndrome*. 2017; 76 (1): 13-22. PMID: 28797017
14. **Crawford ND**, Ford C, Rudolph A, Kim B, Lewis C. Drug use discrimination predicts formation of high-risk social ties: Examining social pathways of discrimination. *AIDS and Behavior*. 2017; 21(9): 1-11. PMID: 28025736.
15. Christine PJ, Moore K, **Crawford ND**, Barrientos-Gutierrez T, Sanchez B, Seeman T, Diez Roux AV. Exposure to neighborhood foreclosures and changes in cardiometabolic health: Results from the Multi-Ethnic Study of Atherosclerosis. *American Journal of Epidemiology*. 2017; 185 (2): 106-114. PMID: 27986705.
16. **Crawford ND**, Rivera AV, Amesty S, Dean T, Guffey T\*, Fuller CM. Pharmacy intervention to improve HIV testing through a comprehensive health screening approach. *Public Health Reports*. 2016; Suppl 1: 139-46. PMID: 26862239
17. Chen Y\*, Cooper HLF, Windle M, Haardörfer R, **Crawford ND**, Chen WJ, Chen CY. Residential environments, alcohol advertising, and initiation and persistence of alcohol consumption among adolescents in urban Taiwan: A prospective multilevel study. *Social Science and Medicine – Population Health*. 2016; 2: 249-58. PMID: 29349145
18. 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. *Journal of Racial and Ethnic Health Disparities*. 2016;3(4):573-81. PMID: 27294761.
19. 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 and STDs*. 2015; 29 (8): 437-44. PMID: 26217930.
20. Rivera AV\*, Decuir J, **Crawford ND**, Amesty S, Fuller CM. Internalized stigma and sterile syringe use among people who inject drugs in New York City, 2010-2012. *Drug and Alcohol Dependence*. 2014; 144: 259-64. PMID: PMC4254372.
21. Turner AK, Jones K, Rudolph AE, **Crawford ND**, Rivera A\*, White K, Benjamin E, Fuller CM. Physical victimization and risky sexual partners among male drug users in New York City. *Journal of Urban Health*. 2014;91(5):957-68. PMID: PMC4199442.

22. **Crawford ND**, Amesty S, Rivera A, Harripersaud K\*, Turner A, Cook S, Fuller C. Community impact of pharmacy-randomized intervention to improve access to syringes and services for injection drug users. *Health Education and Behavior*. 2014; 41(4): 397-405. PMID: 24722219.
23. **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. *Journal of Drug Issues*. 2014; 44(2): 197-211. PMCID: PMC4474473.
24. **Crawford ND**, Rudolph A, Fuller C. Racial/ ethnic differences in recent drug detoxification enrollment and the association between discrimination and neighborhood factors in New York City drug-users. *Substance Use and Misuse*. 2013. PMCID: PMC4333133.
25. **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. *Journal of Urban Health*. 2014; 91 (1): 151-161. PMCID: PMC3907620.
26. **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. *American Journal of Public Health*. 2013; 103 (9): 1579-1582. PMCID: PMC3780671.
27. 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. *Journal of Behavioral Health Services Research*. 2013; 40 (4): 476-487. PMCID: PMC3899847.
28. 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). *Annals of Epidemiology*. 2013; 23 (5): 267-274. PMCID: PMC3640756.
29. 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 in New York City (2006-2009). *Annals of Epidemiology*. 2013; 23 (10): 666-668. PMCID: PMC4203312.
30. **Crawford ND**, Borrell L, Ford C, Galea S, Latkin C, Fuller C. The influence of neighborhood characteristics on the relationship between discrimination and increased drug-using social ties among illicit drug users. *Journal of Community Health*. 2013; 38 (2): 328-337. PMCID: PMC3658117.

31. Latkin C, Davey-Rothwell M, Yang J, **Crawford ND**. The relationship between drug user stigma and depression among inner-city drug users in Baltimore, MD. *Journal of Urban Health*. 2013; 90 (1): 147-156. PMID: PMC3579309.
32. White K, Rudolph AE, Latkin C, Jones K, 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): 230-238. PMID: PMC3783216.
33. **Crawford ND**, Ford C, Galea S, Latkin C, Jones K, Fuller C. The relationship between perceived discrimination and high-risk social networks among illicit drug users in New York City, 2006-2009. *AIDS and Behavior*. 2013; 17 (1): 419-426. PMID: 22638866.
34. **Crawford ND**, Jones K, Benjamin E, Fuller C. Differences in self-reported discrimination by primary type of drug used among New York City (NYC) drug users. *The American Journal of Drug and Alcohol Dependence*. 2012; 38 (6): 588-592. PMID: PMC3686105.
35. Amesty S, Blaney S, **Crawford ND**, Rivera AV, Fuller C. Pharmacy staff characteristics associated with support for pharmacy-based HIV testing. *Journal of the American Pharmacists Association*. 2012; 52 (4): 472-479. PMID: PMC3703741.
36. 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 and Alcohol Dependence*. 2012; 120 (1-3): 127-34. PMID: PMC3225725.
37. Borrell LN, **Crawford ND**. Socioeconomic position indicators on periodontitis: Examining the evidence. *Periodontology 2000 Reviews*. 2012; 58 (1): 69-83. PMID: PMC3233193.
38. 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. *Social Science and Medicine*. 2011; 73 (7): 1097-104. PMID: PMC3171638.
39. 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 and Alcohol Dependence*. 2011; 118 (2-3): 437-43. PMID: PMC3178717.
40. 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. PMID: PMC3089627.
41. 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. *Annals of Epidemiology*. 2011; 21 (4): 280-89. PMID: PMC3062521.
42. **Crawford ND**, Blaney S, Amesty S, Rivera A, Turner A, Ompad D, Fuller C. 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. *Journal of Urban Health*. 2011; 88 (1): 176-85. PMID: PMC3042083.
  43. 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 Mental Health Journal*. 2010. *Community Mental Health Journal*. 2011; 47 (2): 143-55. PMID: PMC2930932.
  44. **Crawford ND**, Jones CP, Richardson LC. Understanding racial and ethnic disparities in colorectal cancer screening: Behavioral risk factor surveillance system, 2002 and 2004. *Ethnicity and Disease*. 2010; 20: 359 – 365. PMID: 21305822.
  45. **Crawford ND**, Vlahov D. Progress in HIV Reduction and Prevention Among Injection and Non-Injection Drug Users. *Journal of Acquired Immune Deficiency Syndrome*. 2010; 55: S84 – S87. PMID: PMC3298118.
  46. Rivera AV, Blaney S, **Crawford ND**, White K, Stern RJ, Amesty SA, Fuller CM. Individual- and neighborhood-level factors associated with nonprescription counseling in pharmacies participating in the New York State Expanded Syringe Access Program. *Journal of the American Pharmacists Association*. 2010; 50 (5): 580-587. PMID: PMC3575749.
  47. 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. *AIDS Education and Prevention*. 2010; 22 (3): 238-51. PMID: PMC2883795.
  48. Rudolph AE, **Crawford ND**, Benjamin E, Stern R, Ompad D, Fuller C. Comparison of injection drug users accessing syringes from pharmacies, syringe exchange programs, and unsafe syringe sources to inform targeted HIV prevention and intervention strategies. *Journal of the American Pharmacists Association*. 2010; 50 (2): 140-7. PMID: PMC3222463.
  49. 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): 422-424. PMID: 19590501.

50. Borrell LN, **Crawford ND**. Social disparities in periodontitis among US adults: the effect of allostatic load. *Journal of Epidemiology and Community Health*. 2011; 65 (2): 144-9. PMID: 19996354.
51. Borrell LN, **Crawford ND**, Dallo FJ, Baquero MC. Self-reported diabetes in Hispanic subgroups, non-Hispanic blacks and non-Hispanic whites: The National Health Interview Survey, 1997-2005. *Public Health Reports*. 2009; 124 (5): 702-710. PMCID: PMC2728662.
52. 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. *Annals of Epidemiology*. 2009; 19(5): 336-343. PMID: 19230710.
53. 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. *Ethnicity and Disease*. 2008; 18 (3): 299-305. PMID: 18785443.
54. 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. *Annals of Epidemiology*. 2008; 18 (10): 803-12. PMCID: PMC2604123.
55. Borrell LN, **Crawford ND**, Barrington DS, Maglo KN. Black/ white disparity in self-reported hypertension: the role of nativity status. *Journal of Health Care for the Poor and Underserved*. 2008; 19 (4): 1148-62. PMID: 19029742.
56. Borrell LN and **Crawford ND**. Social disparities in periodontitis in an adult sample in the United States 1999-2004. *Community Dentistry and Oral Epidemiology*. 2008; 36 (5): 383-91. PMID: 18924254.
57. **Crawford ND**, Jones CP, Richardson LC. Understanding the role of reactions to race-based treatment in breast and cervical cancer screening. *Journal of National Medical Association*. 2008; 100 (2): 188-195. PMID: 18300536.
58. Borrell LN, **Crawford ND**, Dailo FJ. Race/ ethnicity and self-reported diabetes among adults in the National Health Interview Survey: 2000-2003. *Public Health Reports*. 2007; 122 (5): 616-25. PMCID: PMC1936960.
59. Borrell LN and **Crawford ND**. Race, ethnicity and self-rated health status in the Behavioral Risk Factors Surveillance Survey. *Hispanic Journal of Behavioral Sciences*. 2006; 28 (3): 387-403.

**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.

**Submitted and in progress:**

1. 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. Submitted: Sexual Health.
2. Imbody C\*, Livingston M, Hicken, M, **Crawford ND**. Examining prevalence of non-medical prescription opioid use by race and ethnicity from 2015-2018 among a national sample. Submitted: Frontiers.
3. Josma D\*, Morris J\*, Hopkins R\*, Quamina A, Sullivan P, Birkett M, **Crawford ND**. Using the think aloud method to assess the feasibility and acceptability of Network Canvas among Black MSM and transgender persons. In progress.
4. Morris J\*, Klepser D, Young H, **Crawford ND**. A comparison of HIV prevention policy across four states. In progress.
5. Van Dyke M\*, Kramer M, Vaccarino V, **Crawford ND**, Kershaw K, Lewis T. Cumulative Socioeconomic Status Discrimination and Depressive Symptoms in African-American and White Adults. In progress.
6. Van Dyke M\*, Kramer M, Vaccarino V, **Crawford ND**, Kershaw K, Lewis T. Inconsistent Reporting of Discrimination over Time using the Experiences of Discrimination Scale: Implications for Studies of Discrimination and Health. In progress.

\*Student contribution

**PRESENTATIONS AND CONFERENCE PROCEEDINGS**

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**Orals:**

**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, Benjamin E, 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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 85<sup>th</sup> 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 85<sup>th</sup> General Session and Exhibition, New Orleans, LA, March 21-24, 2007.

#### ***Roundtables:***

**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\*, Rudolph A, **Crawford ND**, Amesty S, Jani B, Lewis CF. 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. 137<sup>th</sup> 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. 24<sup>th</sup> 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. 10<sup>th</sup> 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**

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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**

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### **Courses Instructed**

Fall 2019	BSHE 542 Socio-behavioral Measurement
Fall 2018	
Spring 2017	
Summer 2015	PH 7011 Introductory Epidemiology, Georgia State School of Public Health
Spring 2015	
Fall 2015	
Spring 2014	
Summer 2015	PH 8100 Epidemiological Measurement of Social Determinants of Health, Georgia State School of Public Health
Summer 2019	Project Imhotep and Public Health Leaders Fellowship Program,

Summer 2018  
Summer 2017  
Summer 2016

Morehouse College

Summer 2012  
Approaches to Race in Epidemiology, EPIC Summer Program, Columbia University

### **Rollins School of Public Health Guest Lectures**

Spring 2018  
Spring 2018 - Present  
Spring 2017  
Fall 2016 – Present  
Fall 2016  
Spring 2016 – Present  
Spring 2016 – Present  
Fall 2015  
Fall 2015 - Present

History of Public Health  
Social Epidemiology  
Behavioral and Social Sciences in Public Health  
Behavioral Epidemiology  
Grant Writing  
Global Health Fellows  
Macro social Determinants of Health  
Approaches to the Science of Health Promotion  
Theory

### **Invited Lectures**

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

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**

- 2020      Juan Rodriguez (BSHE): 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 (BSHE): Trends in non-medical prescription opioid and heroin co-use and medication assisted treatment utilization  
Role: Chair
- 2016      Yenting Chen (BSHE): Area-level characteristics, alcohol advertising, and adolescent alcohol use behaviors in Taiwan: A mixed methods approach  
Role: Committee Member

### **Former Doctoral Students**

Carla Jones (BSHE)  
Juan Rodriguez (BSHE)  
Leslie Salas (BSHE)  
Izraelle McKinnon (EPI)  
Miriam vanDyke (EPI)

### **Masters Theses**

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

- 2017 Dahana Sejour (BSHE): 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 and Former Masters of Public Health Students**

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**

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#### **Professional Associations**

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

#### **RSPH Committees**

2016 Scholars in Action Book Discussant  
2015-Present Research Administration Committee  
2015 Association of Black Public Health Students Faculty Student Networking

**Departmental**

2020-Present Diversity, Equity and Inclusion Committee  
2019-Present Masters in Public Health Curriculum Committee  
2017-Present Community Connected Department Advisory Committee  
2017-Present Office of Evidence Based Learning Advisory Committee

**JOURNAL REVIEWS**

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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 Drug Issues  
Journal of Urban Health  
Social Science and Medicine  
Substance Use and Misuse

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