

## CURRICULUM VITAE

ABBY RUDOLPH

### PERSONAL INFORMATION

Personal website: <http://abbyrudolph.com/>

[Google Scholar](#)

[ResearchGate](#)

### EDUCATION AND TRAINING:

Ph.D. / 2011	<b>Johns Hopkins University Bloomberg School of Public Health</b> <i>Epidemiology – Infectious Disease</i>
M.P.H. / 2007	<b>Columbia University Mailman School of Public Health</b> <i>Epidemiology – Infectious Disease</i>
B.A. / 2005	<b>Franklin and Marshall College</b> <i>Biology, Public Health Policy</i>
Postdoctoral Scholar / 2012	<b>University of California San Diego School of Medicine</b> <i>Global Public Health</i>

### PROFESSIONAL EXPERIENCE:

9/2018 – present	Associate Professor Department of Epidemiology and Biostatistics, Temple University College of Public Health, Philadelphia PA
5/2018 – 8/2018	Associate Professor Department of Epidemiology, Boston University School of Public Health, Boston MA
5/2017 – 9/2017	Visiting Scientist in the FXB Center for Health and Human Rights at the Harvard T.H. Chan School of Public Health, Boston MA
12/2015 – 5/2018	Assistant Professor Department of Epidemiology, Boston University School of Public Health, Boston MA
9/2014 - present	Associate Faculty Appointment Department of Health Behavior and Society, Johns Hopkins University Bloomberg School of Public Health, Baltimore MD
12/2012 – 12/2015	Research Scientist The Calverton Center, Pacific Institute for Research and Evaluation, Calverton, MD
10/2012 – 12/2012	Assistant Professor Division of Global Public Health, University of California San Diego School of Medicine, San Diego CA

4/2011 – 9/2012 Post-Doctoral Scholar in Global Public Health  
Division of Global Public Health, University of California San Diego School of  
Medicine,  
San Diego CA

1/2011 – 4/2011 Consultant  
Johns Hopkins Program for International Education in Gynecology and Obstetrics,  
Baltimore MD

10/2010 – 4/2011 STD Surveillance Network (SSuN) Epidemiologist  
The Baltimore City Health Department, Baltimore MD

1/2009 – 3/2009 Teaching Assistant for Epidemiologic Methods 3  
Johns Hopkins University Bloomberg School of Public Health, Baltimore MD

7/2008 – 1/2011 Drug Dependence and Epidemiology Training Program  
(NIDA T32 DA007282) Pre-doctoral Fellow  
Johns Hopkins University Bloomberg School of Public Health, Baltimore MD

3/2008 – 8/2010 Research Assistant/Coordinator  
Johns Hopkins University Bloomberg School of Public Health, Baltimore MD

9/2007 – 7/2010 Research Consultant  
Center for Urban Epidemiologic Studies, The New York Academy of Medicine,  
New York City, NY

5/2006 – 8/2007 Research Coordinator  
Center for Urban Epidemiologic Studies (New York Academy of Medicine), NY,  
NY

5/2005 – 8/2005 Research Assistant  
Fox Chase Cancer Center, Philadelphia PA

8/2004 – 5/2005 Research Assistant  
Franklin and Marshall College, Lancaster PA

5/2004 – 8/2004 Howard Hughes Medical Institute Fellow  
Princeton University Summer Molecular Biology Research Program, Princeton NJ

5/2003 – 8/2003 Research Assistant  
Fox Chase Cancer Center, Philadelphia PA

5/2002 – 8/2002 Bristol Meyer Squibb Fellow  
Fox Chase Cancer Center, Philadelphia PA

### **Academic Committees/University Service**

#### *Pacific Institute for Research and Evaluation*

2014-2015: Research Ethics Committee Member (PIRE)

#### *Boston University School of Public Health*

2016-present: Research Committee Member

2016-present: Admissions Committee – MS in Epidemiology

2016-present: Epidemiology Comprehensive Exam Committee

2016-present: Mobile and Electronic Health Affinity Research Collaborative Member

2016-present: BU-wide Interdisciplinary Network Working Group Founder  
2018-present: Boston University Integrated Learning Experience Advisor, MPH candidates

### **Professional Service and Experience**

2016-present Grant Reviewer, National Science Foundation

### **Professional Memberships**

*Phi Beta Kappa* (2005-Present)  
*American Public Health Association* (2006-Present)  
*International AIDS Society* (2006-Present)  
*Global Health Council* (2007-Present)  
*College on Problems of Drug Dependence* (2009-Present)  
*Delta Omega Alpha Chapter* (2011-Present)  
*International Network for Social Network Analysis* (2013-Present)

### **Peer Review Activities:**

2009–Present: Journal of Urban Health;  
2010–Present: Drug & Alcohol Dependence, Journal of the American Pharmacists Association, Open AIDS Journal;  
2011–Present: Social Science & Medicine, BioMed Central;  
2012–Present: Journal of the International AIDS Society Editorial;  
2013–Present: Health Education Research, Journal of Alcoholism & Drug Dependence, Drug Issues, Journal of the Royal Society Interface, Journal of Health Disparities Research & Practice;  
2014–Present: Substance Abuse Treatment & Prevention, & Policy;  
2015–Present: Ethics & Behavior; Journal of Law, Medicine & Ethics; American Journal of Epidemiology  
2016–Present: Addiction; Scientific Reports Nature  
2017–Present: PLOS One; JMIR; Addictive Behaviors  
2018–Present: International Journal of Epidemiology; Health and Place

### **Symposiums Organization/Leadership:**

Organized Epi-Plus Seminar Series (Epidemiology and Community Health Sciences) at Boston University School of Public Health. November 10, 2016

Moderated Panel Discussion for Reducing Health Inequities Symposium, entitled “Reducing Health Inequities: Advancing Meaningful Change”, February 1, 2017.

### **HONORS AND AWARDS**

#### *Honors*

Dean’s List (2001-05)  
Delphic Society (2001-05)  
National Dean’s List (2001-05)  
Who’s Who in American Colleges (2001-05)  
Bristol Meyer Squibb Fellow, Fox Chase Cancer Center, Philadelphia PA (2002)  
Centennial Conference Academic Honor Roll (Spring 2003)  
HHMI Fellow, Summer Molecular Biology Research Program, Princeton University, Princeton NJ (2004)  
Phi Beta Kappa (2005)

Magna Cum-Laude (2005)  
Delta Omega Alpha Chapter (2011)  
Summa Cum-Laude (2007, 2011)  
NIH Summer Institute on Social and Behavioral Intervention Research Fellow (2012)  
Fordham HIV & Substance Abuse Prevention Research Ethics Training Institute Fellow (2014-2016)  
Boston University Emerging Health Care Leaders Program (2017)  
Boston University Institute for Health System Innovation and Policy Fellow (2018)

#### *Awards*

Marshall Scholarship, Franklin and Marshall College, Lancaster PA (2001-2005)  
Harleysville National Bank Academic Scholarship (2001-2005)  
Marshall Travel and Research Grant (2002)  
Public Health Leadership Award, Columbia University (2005-07)  
Student Travel Support Fund in the Department of Epidemiology, Johns Hopkins University School of Public Health (2010)  
Ranked among the top 5% of reviewers for Drug and Alcohol Dependence (2012)  
NIH Loan Repayment Program Award Recipient (2012-2016)  
Fordham HIV & Substance Abuse Prevention Research Ethics Grant (2014-2016)  
Best Paper in the 2013 *Annals of Epidemiology*.  
Ranked among the top 10% of reviewers for *Drug and Alcohol Dependence*, Certificate of Outstanding Contribution in Reviewing (2015)  
Boston University Digital Health Initiative Research Award (2017-2019)

## **PUBLICATIONS**

### *Journal Articles*

1. Algarin AB, Ward PJ, Christian WJ, **Rudolph AE**, Holloway IW, Young AM. (2018) Spatial distribution of partner-seeking men who have sex with men (MSM) using geosocial networking applications: An epidemiologic study. *JMIR*.
2. Young AM, **Rudolph AE**, Havens JR. (2018) Network-Based Research on Rural Opioid Use: an Overview of Methods and Lessons Learned. *Curr HIV/AIDS Rep*. 2018 Feb 19. doi: 10.1007/s11904-018-0391-2. [Epub ahead of print] Review. PubMed PMID: 29457200.
3. **Rudolph AE**, Tobin K, Rudolph J, Latkin C. (2018) Web-Based Survey Application to Collect Contextually Relevant Geographic Data With Exposure Times: Application Development and Feasibility Testing. *JMIR Public Health Surveill*. 2018 Jan 19;4(1):e12. doi: 10.2196/publichealth.8581. PubMed PMID: 29351899; PubMed Central PMCID: PMC5797287.
4. **Rudolph AE**, Young AM, Havens JR. (2017) A rural/urban comparison of privacy and confidentiality concerns associated with providing sensitive location information in epidemiologic research involving persons who use drugs. *Addict Behav*. 2017 Nov;74:106-111. doi: 10.1016/j.addbeh.2017.06.006. Epub 2017 Jun 8. PubMed PMID: 28609723; PubMed Central PMCID: PMC5544525.
5. **Rudolph AE**, Young AM, Havens JR. (2017) Examining the Social Context of Injection Drug Use: Social Proximity to Persons Who Inject Drugs Versus Geographic Proximity to Persons Who Inject Drugs. *Am J Epidemiol*. 2017 Oct 15;186(8):970-978. doi: 10.1093/aje/kwx162. PubMed PMID: 28535162.

6. Crawford ND, Ford C, **Rudolph AE**, Kim B, Lewis CF. (2017) Drug use discrimination predicts formation of high-risk social ties: Examining social pathways of discrimination. *AIDS and Behavior*. 21(9): 2659-2669. PMID In Process doi:10.1007/s10461-016-1639-8
7. **Rudolph AE**, Crawford ND, Latkin C, Lewis CF. (2017) Multiplex Relationships and HIV: Implications for Network-Based Interventions. *AIDS Behav*. 2017 Apr;21(4):1219-1227. doi: 10.1007/s10461-016-1454-2. PubMed PMID: 27272657; PubMed Central PMCID: PMC5140765.
8. Young AM, **Rudolph AE**, Su AE, King L, Jent S, Havens JR. (2016) Accuracy of name and age data provided about network members in a social network study of people who use drugs: implications for constructing sociometric networks. *Ann Epidemiol*. 2016 Nov;26(11):802-809. doi: 10.1016/j.annepidem.2016.09.010. Epub 2016 Oct 5. PubMed PMID: 28126091; PubMed Central PMCID: PMC5283838.
9. **Rudolph AE**, Bazzi AR, Fish S. (2016) Ethical considerations and potential threats to validity for three methods commonly used to collect geographic information in studies among people who use drugs. *Addict Behav*. 2016 Oct;61:84-90. doi: 10.1016/j.addbeh.2016.05.014. Epub 2016 May 17. PubMed PMID: 27249807; PubMed Central PMCID: PMC4922643.
10. Crawford ND, Dean T, Rivera AV, Guffey T, Amesty S, Rudolph A, DeCuir J, Fuller CM. (2016) Pharmacy Intervention to Improve HIV Testing Uptake Using a Comprehensive Health Screening Approach. *Public Health Rep*. 2016 Jan-Feb;131 Suppl 1:139-46. PubMed PMID: 26862239; PubMed Central PMCID: PMC4720615.
11. Yang C, Linas B, Kirk G, Bollinger R, Chang L, Chander G, Siconolfi D, Braxton S, **Rudolph AE**, Latkin C. (2015) Feasibility and Acceptability of Smartphone-Based Ecological Momentary Assessment of Alcohol Use Among African American Men Who Have Sex With Men in Baltimore. *JMIR Mhealth Uhealth*. 2015 Jun 17;3(2):e67. doi: 10.2196/mhealth.4344. PubMed PMID: 26085078; PubMed Central PMCID: PMC4526945.
12. **Rudolph AE**, Young AM, Lewis CF. (2015) Assessing the geographic coverage and spatial clustering of illicit drug users recruited through respondent-driven sampling in New York City. *J Urban Health*. 2015 Apr;92(2):352-78. doi: 10.1007/s11524-015-9937-4. PubMed PMID: 25694223; PubMed Central PMCID: PMC4411314.
13. Meacham MC, **Rudolph AE**, Strathdee SA, Rusch ML, Brouwer KC, Patterson TL, Vera A, Rangel G, Roesch SC. (2015) Polydrug Use and HIV Risk Among People Who Inject Heroin in Tijuana, Mexico: A Latent Class Analysis. *Subst Use Misuse*. 2015;50(10):1351-9. doi: 10.3109/10826084.2015.1013132. Epub 2015 Oct 7. PubMed PMID: 26444185; PubMed Central PMCID: PMC4786000.
14. Pollini RA, **Rudolph AE**, Case P. (2015) Nonprescription syringe sales: a missed opportunity for HIV prevention in California. *J Am Pharm Assoc* (2003). 2015 Jan-Feb;55(1):31-40. doi: 10.1331/JAPhA.2015.14148. PubMed PMID: 25575149; PubMed Central PMCID: PMC4293079.
15. **Rudolph AE**, Gaines TL, Lozada R, Vera A, Brouwer KC. (2014) Evaluating outcome-correlated recruitment and geographic recruitment bias in a respondent-driven sample of people who inject drugs in Tijuana, Mexico. *AIDS Behav*. 2014 Dec;18(12):2325-37. doi: 10.1007/s10461-014-0838-4. PubMed PMID: 24969586; PubMed Central PMCID: PMC4401495.

16. Turner AK, Jones KC, **Rudolph AE**, Rivera AV, Crawford N, Lewis CF. (2014) Physical victimization and high-risk sexual partners among illicit drug-using heterosexual men in New York City. *J Urban Health.* 2014 Oct;91(5):957-68. doi: 10.1007/s11524-014-9902-7. PubMed PMID: 25256949; PubMed Central PMCID: PMC4199442.
17. Young AM, **Rudolph AE**, Quillen D, Havens JR. (2014) Spatial, temporal and relational patterns in respondent-driven sampling: evidence from a social network study of rural drug users. *J Epidemiol Community Health.* 2014 Aug;68(8):792-8. doi: 10.1136/jech-2014-203935. Epub 2014 Apr 1. PubMed PMID: 24692631; PubMed Central PMCID: PMC4410836.
18. Wagner GA, Pacold ME, Kosakovsky Pond SL, Caballero G, Chaillon A, **Rudolph AE**, Morris SR, Little SJ, Richman DD, Smith DM. (2014) Incidence and prevalence of intrasubtype HIV-1 dual infection in at-risk men in the United States. *J Infect Dis.* 2014 Apr 1;209(7):1032-8. doi: 10.1093/infdis/jit633. Epub 2013 Nov 22. Erratum in: *J Infect Dis.* 2014 Oct 1;210(7):1166. PubMed PMID: 24273040; PubMed Central PMCID: PMC3952674.
19. Crawford ND, **Rudolph AE**, Fuller CM. (2013) Racial/Ethnic Differences in Recent Drug Detoxification Enrollment and the Role of Discrimination and Neighborhood Factors. *Subst Use Misuse.* 2013 Aug 21. [Epub ahead of print] PubMed PMID: 23964956; PubMed Central PMCID: PMC4333133.
20. Yang C, Latkin C, Muth SQ, **Rudolph AE**. (2013) Injection Drug Users' Involvement In Drug Economy: Dynamics of Sociometric and Egocentric Social Networks. *Connect (Tor).* 2013 Jul;33(1):24-34. PubMed PMID: 25309015; PubMed Central PMCID: PMC4193503.
21. Crawford ND, White K, **Rudolph AE**, Jones KC, Benjamin EO, Fuller CM. (2014) The Relationship Between Multiple Forms of Discrimination, Neighborhood Characteristics, and Depression Among Illicit Drug Users in New York City. *J Drug Issues.* 2014 Apr;44(2):197-211. PubMed PMID: 26097253; PubMed Central PMCID: PMC4474473.
22. **Rudolph AE**, Crawford ND, Fuller CM. (2013) Response to letter to the editor: regarding "individual and neighborhood correlates of membership in drug-using networks with a higher prevalence of human immunodeficiency virus (2006-2009)". *Ann Epidemiol.* 2013 Oct;23(10):666-8. doi: 10.1016/j.annepidem.2013.07.020. Epub 2013 Aug 20. PubMed PMID: 23972898; PubMed Central PMCID: PMC4203312.
23. Sapra KJ, Crawford ND, **Rudolph AE**, Jones KC, Benjamin EO, Fuller CM. (2013) Social network members' roles and use of mental health services among drug users in New York City. *J Behav Health Serv Res.* 2013 Oct;40(4):476-87. doi: 10.1007/s11414-013-9355-x. PubMed PMID: 23897001; PubMed Central PMCID: PMC3899847.
24. Gaines TL, **Rudolph AE**, Brouwer KC, Strathdee SA, Lozada R, Martinez G, Goldenberg SM, Rusch ML. (2013) The longitudinal association of venue stability with consistent condom use among female sex workers in two Mexico-USA border cities. *Int J STD AIDS.* 2013 Jul;24(7):523-9. doi: 10.1177/0956462412473890. Epub 2013 Jun 25. PubMed PMID: 23970766; PubMed Central PMCID: PMC3987857.
25. **Rudolph AE**, Fuller CM, Latkin C. (2013) The importance of measuring and accounting for potential biases in respondent-driven samples. *AIDS Behav.* 2013 Jul;17(6):2244-52. doi: 10.1007/s10461-013-0451-y. PubMed PMID: 23515641; PubMed Central PMCID: PMC3674117.

26. **Rudolph AE**, Crawford ND, Latkin C, Fowler JH, Fuller CM. (2013) Individual and neighborhood correlates of membership in drug using networks with a higher prevalence of HIV in New York City (2006-2009). *Ann Epidemiol*. 2013 May;23(5):267-74. doi: 10.1016/j.annepidem.2013.02.006. Epub 2013 Mar 21. PubMed PMID: 23523090; PubMed Central PMCID: PMC3640756.
27. **Rudolph AE**, Linton S, Dyer TP, Latkin C. (2013) Individual, network, and neighborhood correlates of exchange sex among female non-injection drug users in Baltimore, MD (2005-2007). *AIDS Behav*. 2013 Feb;17(2):598-611. doi: 10.1007/s10461-012-0305-z. PubMed PMID: 22983502; PubMed Central PMCID: PMC3552090.
28. White K, **Rudolph AE**, Jones KC, Latkin C, Benjamin EO, Crawford ND, Fuller CM. (2013) Social and individual risk determinants of HIV testing practices among noninjection drug users at high risk for HIV/AIDS. *AIDS Care*. 2013;25(2):230-8. doi: 10.1080/09540121.2012.701269. Epub 2012 Jul 27. PubMed PMID: 22834456; PubMed Central PMCID: PMC3783216.
29. Crawford ND, **Rudolph AE**, Jones K, Fuller C. (2012) Differences in self-reported discrimination by primary type of drug used among New York City drug users. *Am J Drug Alcohol Abuse*. 2012 Nov;38(6):588-92. doi: 10.3109/00952990.2012.673664. Epub 2012 Apr 23. PubMed PMID: 22524147; PubMed Central PMCID: PMC3686105.
30. **Rudolph AE**, Davis WW, Quan VM, Ha TV, Minh NL, Gregowski A, Salter M, Celentano DD, Go V. (2012) Perceptions of community- and family-level injection drug user (IDU)- and HIV-related stigma, disclosure decisions and experiences with layered stigma among HIV-positive IDUs in Vietnam. *AIDS Care*. 2012;24(2):239-44. doi: 10.1080/09540121.2011.596517. Epub 2011 Jul 21. PubMed PMID: 21777075; PubMed Central PMCID: PMC3289061.
31. **Rudolph AE**, Crawford ND, Latkin C, White K, Benjamin EO, Jones K, Fuller CM. (2011) 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 Oct;73(7):1097-104. doi: 10.1016/j.socscimed.2011.06.040. Epub 2011 Jul 23. PubMed PMID: 21852029; PubMed Central PMCID: PMC3171638.
32. **Rudolph AE**, Latkin C, Crawford ND, Jones KC, Fuller CM. (2011) Does respondent driven sampling alter the social network composition and health-seeking behaviors of illicit drug users followed prospectively? *PLoS One*. 2011 May 6;6(5):e19615. doi: 10.1371/journal.pone.0019615. PubMed PMID: 21573122; PubMed Central PMCID: PMC3089627.
33. **Rudolph AE**, Crawford ND, Latkin C, Heimer R, Benjamin EO, Jones KC, Fuller CM. (2011) Subpopulations of illicit drug users reached by targeted street outreach and respondent-driven sampling strategies: implications for research and public health practice. *Ann Epidemiol*. 2011 Apr;21(4):280-9. doi: 10.1016/j.annepidem.2010.11.007. PubMed PMID: 21376275; PubMed Central PMCID: PMC3062521.
34. Latimore AD, **Rudolph AE**, German D, Sherman SG, Sriroj B, Aramrattana A, Celentano DD. (2011) Predictors of incident and recurrent participation in the sale or delivery of drugs for profit amongst young methamphetamine users in Chiang Mai Province, Thailand, 2005-2006. *Int J Drug Policy*. 2011 Jul;22(4):259-66. doi: 10.1016/j.drugpo.2011.05.004. Epub 2011 Jun 20. PubMed PMID: 21689916; PubMed Central PMCID: PMC3137701.

35. **Rudolph AE**, Jones KC, Latkin C, Crawford ND, Fuller CM. (2011) The association between parental risk behaviors during childhood and having high risk networks in adulthood. *Drug Alcohol Depend.* 2011 Nov 1;118(2-3):437-43. doi: 10.1016/j.drugalcdep.2011.05.003. Epub 2011 May 31. PubMed PMID: 21632187; PubMed Central PMCID: PMC3178717
36. Ropelewski LR, Mancha BE, Hulbert A, **Rudolph AE**, Martins SS. (2011) Correlates of risky injection practices among past-year injection drug users among the US general population. *Drug Alcohol Depend.* 2011 Jul 1;116(1-3):64-71. doi: 10.1016/j.drugalcdep.2010.11.025. Epub 2011 Jan 11. Erratum in: *Drug Alcohol Depend.* 2011 Dec 15;119(3):239. PubMed PMID: 21227602; PubMed Central PMCID: PMC3090520.
37. Salter ML, Go VF, Minh NL, Gregowski A, Ha TV, **Rudolph A**, Latkin C, Celentano DD, Quan VM. (2010) Influence of perceived secondary stigma and family on the response to HIV infection among injection drug users in Vietnam. *AIDS Educ Prev.* 2010 Dec;22(6):558-70. doi: 10.1521/aeap.2010.22.6.558. PubMed PMID: 21204631; PubMed Central PMCID: PMC3122273.
38. **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. (2010) 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 Educ Prev.* 2010 Jun;22(3):238-51. doi: 10.1521/aeap.2010.22.3.238. PubMed PMID: 20528131; PubMed Central PMCID: PMC2883795.
39. **Rudolph AE**, Crawford ND, Ompad DC, Benjamin EO, Stern RJ, Fuller CM. (2010) Comparison of injection drug users accessing syringes from pharmacies, syringe exchange programs, and unsafe syringe sources to inform targeted HIV prevention and intervention strategies. *J Am Pharm Assoc* (2003). 2010 Mar-Apr 1;50(2):140-7. doi: 10.1331/JAPhA.2010.09193. PubMed PMID: 20199954; PubMed Central PMCID: PMC3222463.

### Chapters

Fuller CM, Ford C, and **Rudolph A** (2008). Injection Drug Use and HIV: Past and Future Considerations for HIV Prevention and Interventions. In: Mayer K, and Pizer HF. *HIV Prevention*. Elsevier/Academic Press, San Diego.

Rudolph AE (2018). Social Networks. In: Galea, Ettman, and Vlahov. *Urban Health*. Oxford University Press, Oxford, UK.

### Practice-Related Reports

Clapper M, Chang W, Spittle C, Coudry R, Everley L, Caprio G, Gary M, **Rudolph A**, Concha A, Cohen J, Feinstein K, Climaldi M. Preclinical Chemoprevention: Biomarkers of cancer risk and chemopreventive response. Fox Chase Cancer Center 2002 Scientific Report.

Chang W, Zhang X, **Rudolph A**. Nutritional chemopreventive intervention: Modulation of signal transduction and gene expression. Fox Chase Cancer Center 2003 Scientific Report.

Chang W, Williams K, **Rudolph A**. Nutritional chemoprevention: Modulation of signal transduction and gene expression. Fox Chase Cancer Center 2005 Scientific Report.



## PRACTICE ACTIVITIES

### *Software development*

**MapSurvey:** I worked with Jonathan Rudolph, a software developer, to create a web-based data collection tool that uses Google Maps Application Programming Interface (APIs) to (1) facilitate data entry locations through the use of an interactive web-based map to find locations even when exact addresses are unknown, (2) permit visual confirmation of each entry by displaying the corresponding street-view image for each location entered, and (3) automatically geocode each entry. This program has been used to collect data in six NIH-funded projects.

**PatientReviewNetwork.com:** I created a website designed to help individuals find local mental health services, providers who offer treatment for substance use disorders, health care centers, physician who prescribe buprenorphine, syringe exchange programs, naloxone providers, and self-help groups such as Alcoholics Anonymous and Narcotics Anonymous who treat their patients and clients with respect. The website allows individuals to find health services and providers based on their distance from a specified address and ratings posted anonymously by others who have visited each health service or provider.

**Overdose Prevention Mobile Application:** With funding from the Boston University Digital Health Initiative, a collaborative effort between the Institute for Health System Innovation and Policy and the Hariri Institute for Computing, I developed an overdose prevention mobile app prototype for rural Appalachia.

## TEACHING / ADVISING

### *Boston University School of Public Health Advisees*

Academic Advisor: 12 MHP students (2017); 18 MPH students (2018)

Integrated Learning Experience Advisor: 5 MPH students (2018)

### *Boston University School of Public Health Masters/Doctoral Thesis Committee Member*

**Lynsie Ranker** (Epidemiology PhD Candidate – Spring 2020)

Thesis Title: *Relationships of Policy and Place with Substance Use, Alcohol Misuse, and Related Risk Behaviors*

**Jane Seymore** (Epidemiology PhD Candidate – Spring 2020)

Thesis Title: *Abortion access: An application of epidemiologic methods*

**Deborah Fernau** (Epidemiology MS Candidate – Summer 2018)

Thesis Title: *Social Network and Individual-level Correlates of Treatment Entry for Substance Use Disorders*

### *Boston University Advisees*

**Lim, Seh Hong**, Ph.D. Candidate (2018), Boston University Department of Anatomy and Neurobiology

### *Brandeis University, The Heller School for Social Policy and Management, Doctoral Thesis Committee Member*

**Dembo, Robbie**, Ph.D. Candidate, Brandeis University, The Heller School for Social Policy and Management, The Lurie Institute for Disability Policy

*Johns Hopkins University Bloomberg School of Public Health, Masters/Doctoral Thesis Committee Member*

**Paul Sacamano**, Ph.D. Candidate, Johns Hopkins University Bloomberg School of Public Health, Department of Epidemiology (2014-2018)

Thesis Title: "Social Networks and Correlates of Retention in HIV Care for Persons Who Inject Drugs"

*University of California San Diego Advisees*

**Meredith Meacham**, Ph.D., University of California San Diego School of Medicine, Department of Global Public Health (2011-2015)

Thesis Title: Latent class transitions of poly drug use in Mexico

**David Goodman**, MAS, Clinical Research, University of California San Diego School of Medicine, Department of Global Public Health (2011-2012)

Thesis Title: Prevalence and correlates of HIV among men who have sex with men (MSM) in Tijuana, Mexico

*Classroom Instruction*

Teaching Assistant for Epidemiologic Methods 3, Johns Hopkins University Bloomberg School of Public Health (January – March 2009)

Guest Lecturer for Humphrey Fellows Seminar Series, Johns Hopkins University Bloomberg School of Public Health (November 9, 2010)

Guest Lecturer for Epidemiology of HIV/AIDS graduate course at San Diego State University (February 8, 2012)

Guest Lecturer for "Communication Network Analysis in Public Health Programs (410.733)", Johns Hopkins University Bloomberg School of Public Health (Fall 2014)

Co-Instructor for "Communication Network Analysis in Public Health Programs (410.733)". Johns Hopkins University Bloomberg School of Public Health (Fall 2015)

Guest Lecturer for "Foundations of Social Epidemiology (340.666.61)". Johns Hopkins Bloomberg School of Public Health (November 10, 2015)

Guest Lecturer for "Social Epidemiology (SPH EP775)". Boston University School of Public Health (February 18, 2016)

Guest Lecturer for "Perspectives on Epidemiologic Studies (SPH EP820)". Boston University School of Public Health (Spring 2016)

Guest Lecturer for "Perspectives on Epidemiologic Studies (SPH EP820)". Boston University School of Public Health (Winter 2017)

Guest Lecturer for "Epidemiology of Mental Health Disorders". (SPH EP790) Boston University School of Public Health (SPH Spring 2017)

Guest Lecturer for Epidemiology Concentrator's Dinner. "Collecting Contextually Relevant Location Data using a Web-based Survey that Interacts with the Google Maps API". (March 1, 2017).

Instructor for "Introduction to Social Network Analysis for Public Health Research (SPH PH729)." Boston University School of Public Health (Fall 2017).

Guest Lecturer for "Communication Network Analysis in Public Health Programs: 410.733". Johns Hopkins University Bloomberg School of Public Health (October 5, 2017)

Guest Lecturer for "Seminar on Social Networks (GRS SO 721)". Boston University (October 26, 2017)

Guest Lecturer for "Social Epidemiology (SPH EP775)". Boston University School of Public Health (November 9, 2017)

Guest Lecturer for "Data Collection Methods for Epidemiologic Research (SPH EP722)". Boston University School of Public Health (November 16, 2017)

Guest Lecturer for "Social Epidemiology (SPH EP775)". Boston University School of Public Health (February 15, 2018)

Guest Lecturer for "Epidemiology of Mental Health Disorders". (SPH EP790). Boston University School of Public Health (April 1, 2018)

### *Workshops*

Social, Behavioral, and Educational Research Conference. Workshop on "The Internet and the IRB: A Review of Human Subjects in Technology-Based Research" (Innovations Track), Boston MA (November 12, 2015)

Advancing Ethical Research Conference. Workshop on "The Internet and the IRB: A Review of Human Subjects in Technology-Based Research" (Innovations Track), Boston MA (November 13, 2015)

## **RESEARCH GRANTS**

### ***Active***

State of Vermont Edwards (PI) 06/01/2018 - 12/31/2019  
Agency of Human Services' Department of Health, Division of Alcohol and Drug Abuse Programs

#### ***Vermont Opioid Use Harm Reduction Evaluation***

The primary goals for the evaluation are to use both qualitative and quantitative methods to assess knowledge and use of harm reduction strategies among high-risk opioid users in Vermont and to identify approaches for effectively communicating health messages to this population.

Role: Consultant

NIDA UG3 DA044798-01 Young and Cooper (PIs) 08/14/2017 - 08/01/2019  
Direct Costs: \$426,679

#### ***Kentucky Communities and Researchers Engaging to Halt the Opioid Epidemic (CARE2HOPE)***

This project is employing community/academic partnerships to build effective, evidence-based, community-grounded public health responses to combat the intertwined epidemics of heroin and non-medical prescription opioid injecting, overdoses, and HCV, and imminent HIV outbreaks, in 12 of the hardest hit rural counties in the US. Located in Central Appalachian Kentucky, 10 of the 12 counties are in the top 5% for HIV/HCV vulnerability in the US.

Role: Co-Investigator (SubK-PI)

Boston University Digital Health Initiative (DHI) Research Award **Rudolph (PI)** 6/15/2017–6/14/2019

Direct Costs: \$49,728

***Developing an Overdose Prevention Mobile Application.***

Unintentional poisoning, primarily from drug overdose, is the leading cause of injury-related death among Americans and the Appalachian region has been disproportionately burdened by overdose fatalities. This project will develop a mobile application to (1) increase the number of people trained in overdose prevention, (2) improve emergency response times, and (3) increase substance abuse treatment uptake.

Role: Principal Investigator

R21AI131979

Rudolph (PI)

02/15/2017 - 01/31/2019

Direct Costs: \$151,298

***Combining social network, spatial, and phylogenetic approaches to identify new HIV infections.***

Current strategies to identify new HIV infections use social network, spatial, and phylogenetic approaches, but combining all three approaches is rare. This project is developing new analytic methods to combine these three types of data and analyses will inform the development novel multi-level and targeted strategies to identify previously undiagnosed HIV infections and deliver prevention interventions to those most at risk for acquiring HIV

Role: Principal Investigator

K99DE025917

Heaton (PI)

09/01/2016 - 08/31/2018

Direct Costs: \$126,906

***Complex Systems Science Approaches to Addressing Oral Health Disparities***

The overarching aim of this research is to enhance the candidate's ability to address oral health disparities from a systems epidemiology perspective by developing expertise in complex systems approaches; specifically, social network analysis, agent-based modeling, and the conceptualization of network interventions.

Role: Mentor

R03DA039740

Young (PI)

09/01/2016-08/31/2018

Direct Costs: \$101,403

***Role of Social Media and Mobile Apps in Sexual and Drug Co-Usage Networks of MSM***

This project examines overlap in sex and drug use networks of men who have sex with men (MSM), overlays information about sex partnerships facilitated by social networking applications, and determines the association between app use and spatial and network-level patterns of HIV risk behavior in a mid-size city in the South.

Role: Consultant

R01DA033862

Havens (PI)

05/01/2016–02/28/2021

Direct Costs: \$449,897

***Effect of Structural Interventions on HIV/HCV Risk among Rural PWUD***

The goal of the study is to examine engagement in structural interventions and to determine their potential influence on risk reduction and health promotion activities among rural Appalachian people who use drugs.

Role: Co-Investigator (SubK-PI)

R01HD077891

Stockman (PI)

09/16/2013–06/30/2019 (NCE)

Direct Costs: \$389,165

***The Impact of Environmental and Physiological Factors on Sexual Assault and HIV***

The goal of this project is to evaluate the impact of the built and social environment on forced sex and, in turn, elucidate how forced sex and physiological factors influence behavioral mechanisms that increase risk for HIV acquisition among at-risk, HIV-negative African-American women in Baltimore, Maryland.

Role: Co-Investigator (SubK-PI)

## **Completed Research Support**

K01DA033879 Rudolph (PI) 09/01/2012–08/31/2018 (NCE)

Direct Costs: \$161,579

### ***HIV and Substance Abuse Epidemiology among IDUs: Structural and Network Risk Factors***

The goal of this project is to better understand how network and spatial factors act independently and together to influence risk and health-seeking behaviors among HIV positive persons who use drugs in Baltimore, Maryland.

Role: Principal Investigator

NIH NCRR UL1TR000117 (PI: Kern) Young (Pilot Grant PI) 08/26/2015–03/25/2017

Pilot Grant from University of Kentucky Center for Clinical and Translational Science

### ***Sexual and Drug Co-Usage Partnerships among Men who have Sex with Men (MSM): A Pilot Study on the Influence of Mobile Apps and on the Spatial Distribution of Partner-seeking MSM***

The goals of this pilot project were to 1) map the distribution of MSM using social networking applications, or “apps”, to form sexual relationships in Lexington, KY and 2) describe the role that apps play in facilitating higher risk sexual relationships (e.g., unprotected sex, injection drug use, sharing of injection equipment).

Role: Consultant

R43MH106361 (MPI: Young and Hopkins) 09/09/2015–03/08/2017

### ***Semi-Automated Processing of Interconnected Dyads Using Entity Resolution (SPIDER)***

The overarching aim of this SBIR project was to develop and verify a new software system that will assist researchers in more rigorously constructing social networks.

Role: Consultant

Pilot Grant Program (Young)

University of Kentucky College of Public Health

5/1/2015 – 4/30/2016

### ***Improving methodology for risk network research among populations at high risk for bloodborne infection***

The overarching aim of this study was to establish a more valid and reliable methodology to study the social networks of populations at high risk for sexual and bloodborne infections.

Role: Consultant

NIDA R25DA031608 (Fisher)

9/1/2014 – 3/31/2016

NIH/NIDA/Fordham University

Training Program in HIV and Substance Abuse Prevention Research Ethics

### ***Ethical considerations for the collection of geographic data for HIV prevention research among illicit drug users.***

The major goals of this project were to (1) describe the privacy and confidentiality concerns associated with different approaches used to collect geographic information from drug using populations in HIV-prevention and substance-use research and (2) assess how these concerns may influence the validity of participant responses.

Role: Pilot Grant PI

P30AI094189 Johns Hopkins Center for AIDS Research (Yang)

6/1/2014 – 5/31/2015

### ***Ecological momentary assessment of alcohol use and sexual behaviors among men who have sex with men in Baltimore, MD***

This project aimed to (1) assess the feasibility of using smartphones to collect EMA data of alcohol use and sexual behaviors among MSM in Baltimore, (2) describe real-time and daily social and physical

environment of alcohol use and sex, and (3) determine modifiable risk factors of alcohol use that can predict risky sexual behaviors.

Role: Consultant

NIDA R01DA035098 (Pollini)

1/01/2013 – 12/31/2015

***OTC syringe sales to prevent HIV in underserved areas of inland California***

California Senate Bill 41, which went into effect on January 1, 2012, was designed to expand sterile syringe access by allowing pharmacies to sell up to 30 syringes without a prescription. The goal of this project was to evaluate the implementation of SB41 in the inland counties of California's Central Valley.

Role: Co-Investigator

R01DA030253 (Lewis)

9/1/2010 – 7/31/2015

***Post Exposure Prophylaxis among IDU Syringe Customers - Pharmacy Pilot Intervention***

The purpose of this research was to evaluate a structural pilot intervention which aims to expand pharmacy services to include provision of non-occupational HIV post exposure prophylaxis (nPEP) and risk reduction information to injection drug users (IDUs) who buy syringes at two pharmacies registered with the New York State Expanded Syringe Access Program (ESAP), a program allowing pharmacies to sell syringes without a prescription to help reduce the spread of HIV among IDUs.

Role: Consultant

R01DA024598 (Havens)

4/5/2008 – 1/31/2014

***Rural Drug Using Social Networks and HIV***

The goal of the study was to examine the prevalence, incidence and risk factors for HIV and other blood borne infections (BBIs) such as hepatitis B (HBV) and C (HCV) among rural Appalachian drug users using social network analysis and multilevel modeling.

Role: Consultant

CFAR P30A136214 (Wagner)

1/1/2012 – 12/31/2012

***Personal networks of FSW-IDUs and their male partners: Broadening the context of HIV prevention.***

The goal of this pilot development project, awarded to junior investigators as a sub-award by the Center for AIDS Research at UC San Diego, was to develop and test a mixed methods interview for collecting personal social network data among female sex workers and their primary male sexual partners. This project developed the interview instrument and conducted interviews with a sample of 20 couples, which were used to refine the instrument and conduct preliminary analyses.

Role: Co-Investigator

NIDA T32DA023356 (Strathdee)

7/1/2011 – 8/31/2012

***Training Program in Substance Use, HIV and Related Infections***

Institutional training program to support predoctoral and postdoctoral fellows conducting research in substance use, HIV, and other co-occurring conditions.

Role: Postdoctoral Fellow

NIDA R25DA025571 (Strathdee)

4/1/2011 – 6/30/2011

***Center for HIV/AIDS Minority Pipeline in Substance Abuse Research (CHAMPS)***

A short-term, intensive internship program for under-represented scholars who are poised to become the next generation of prevention scientists with expertise in substance abuse, HIV and co-occurring conditions.

Role: Fellow

NIDA T32DA007292 (Latimer)

6/30/2008 – 2/4/2011

***Drug Dependence Epidemiology Training (DDET) Program***

The Drug Dependence Epidemiology Training Program is designed to develop expert scientists in the field of the epidemiology and consequences of drug dependence.

Role: Predoctoral Fellow

## PRESENTATIONS

### *Scientific Meetings*

Fuller CM, Caceres W, Lewis E, Standish K, **Rudolph A**, Vlahov D, and the Harlem Community and Academic Partnership. Using pharmacists to link injection drug users to medical and social services in New York City. [Abstract #027 Poster Presentation] 5<sup>th</sup> International Conference on Urban Health, Amsterdam, The Netherlands, 2006.

Caceres W, **Rudolph A**, Blaney S, Lewis E, Standish K, Vlahov D, and Fuller CM. Syringe access program for injection drug users in NYC: Policy recommendations for targeted advertisement to increase syringe access through pharmacies [Abstract #142434 Oral Presentation] 134<sup>th</sup> APHA Annual Meeting and Exposition, Boston, Massachusetts, November 2006.

**Rudolph AE**, Benjamin EO, White K, Jones K, Blaney S, DeVecchio S, Ompad O, Fuller CM. Individual trainings versus group trainings: Preliminary evaluation of peer recruitment through Respondent Driven Sampling of hidden populations of drug users in New York City [Abstract#163739 Oral Presentation] 135<sup>th</sup> APHA Annual Meeting and Exposition, Washington, DC, November 2007.

**Rudolph AE**, Standish K, White K, Benjamin EO, Vlahov D, Fuller CM. Improving access to medical care for injection drug users (IDUs) through a pharmacy syringe access program in New York City [Abstract#153980 Oral Presentation] 135<sup>th</sup> APHA Annual Meeting and Exposition, Washington, DC, November 2007.

**Rudolph AE**, Standish K, White K, Benjamin EO, Vlahov D, Fuller CM. Improving access to drug treatment and social services for injection drug users (IDUs) through a pharmacy syringe access program in New York City, 2005-2006 [Abstract#502 Oral Presentation] 2007 National HIV Prevention Conference, Atlanta, GA, December 2007.

**Rudolph AE**, Standish K, White K, Fuller CM. Explaining the relationship between police harassment and pharmacy purchased syringes among injection drug users in New York City (2005-2007) [Abstract#TUA0204 Oral Presentation] 2007 XVII International AIDS Conference, Mexico City, Mexico, August 2008.

White K, Benjamin EO, **Rudolph AE**, Crawford ND, Fuller CM. Syphilis testing among drug users in New York City. [Poster Presentation] 2007 XVII International AIDS Conference, Mexico City, Mexico, August 2008.

Standish K, Blaney S, Crawford N, **Rudolph A**, White K, Fuller CM. Injectors' perceptions and attitudes toward pharmacies as syringe sources. [Poster Presentation] 2007 XVII International AIDS Conference, Mexico City, Mexico, August 2008.

Crawford ND, Standish K, **Rudolph A**, Trezza C, Fuller CM. Primary Prevention in pharmacies: Capability and considerations when expanding healthcare services. [Poster Presentation] 2007 XVII International AIDS Conference, Mexico City, Mexico, August 2008.

Ompad DC, Boyer A, Palermo A, **Rudolph AE**, Amesty S, Vlahov D. Are attitudes and beliefs about the HPV vaccine specific to that vaccine? [Abstract#178214 Oral Presentation] 136th APHA Annual Meeting & Exposition, San Diego, CA, October 2008.

Ompad DC, Boyer A, Palermo A, **Rudolph AE**, Amesty S, Vlahov D. Influences on decision making for the HPV vaccine among Blacks and Hispanics in New York City [Abstract#178169 Oral Presentation] 136th APHA Annual Meeting & Exposition, San Diego, CA, October 2008.

Ompad DC, Boyer A, Palermo AG, **Rudolph AE**, Amesty SA, Vlahov D and the Cervical Health Intervention Working Group Harlem Community and Academic Partnership. Influences on decision making for the HPV vaccine among Blacks and Hispanics in New York City. [Abstract# 178169 Oral Presentation] 136th APHA Annual Meeting & Exposition, San Diego, CA, October 2008.

Ompad DC, Boyer A, Palermo A-G, **Rudolph AE**, Amesty S, Vlahov D, and Cervical Health Intervention Working Group Harlem Community and Academic Partnership. Are attitudes and beliefs about the HPV vaccine specific to that vaccine? [Abstract# 178214 Oral Presentation] 136th APHA Annual Meeting & Exposition, San Diego, CA, October 2008.

**Rudolph AE**, White K, Benjamin EO, Crawford N, Jones K, Fuller CM. Respondent Driven Sampling: Optimizing peer recruitment by selecting seeds with recruitment potential, NYC (2006-2007) [Abstract#180226 Poster Presentation] 136th APHA Annual Meeting & Exposition, San Diego, CA, October 2008.

Jones K, Benjamin EO, Crawford N, **Rudolph A**, White K, Ompad DC, and Fuller CM. Association between parental factors and adolescent initiation of marijuana and alcohol among heroin, crack and cocaine users in New York City, 2006-2007. [Poster Presentation] 7<sup>th</sup> International Conference on Urban Health, Vancouver, BC, October 2008.

White K, Benjamin EO, **Rudolph AE**, Fuller CM. Correlates of infrequent HIV testing among drug users in NYC. [Poster Presentation] 7<sup>th</sup> International Conference on Urban Health, Vancouver, BC, October 2008.

**Rudolph AE**, Benjamin EO, Crawford N, Stern R, Ompad DC, Fuller CM. The role of pharmacies in increasing access to sterile syringes for injection drug users (IDUs) in New York City. [Oral Presentation] 7<sup>th</sup> International Conference on Urban Health, Vancouver, BC, October 2008.

**Rudolph AE**, Salter M, Quan VM, Gregowsky A, Latkin C, Tran H, Ngoc NP, Celentano D, Go V. HIV positive IDUs: Layered stigma and disclosure in Northern Vietnam. [Abstract# 52 Poster Presentation] Third Annual Conference for the Dissemination of Student Research on Addictions, Infectious Disease, and Public Health, Baltimore MD, April 2009.

**Rudolph AE**, Jones K, Fuller CM. Social network factors influencing recent HIV testing in drug users. [Abstract# 594903 Poster] 71<sup>st</sup> College of Problems of Drug Dependence, Reno/Sparks, Nevada, June 2009.

**Rudolph AE**, Jones K, Fuller CM. Association between parental risk behaviors during childhood and the formation of high risk networks in adulthood. [Abstract#206854 Oral Presentation] 137<sup>th</sup> APHA Annual Meeting and Exposition, Philadelphia, PA, November 2009.

**Rudolph AE**, Latimore A, Sherman S. Predictors of participation in the sale or delivery of drugs for profit among young methamphetamine users in Chiang Mai Province Thailand, 2005-2006. [Poster Presentation] Fourth Annual Conference for the Dissemination of Student Research on Addictions,



Infectious Disease, and Public Health, Baltimore MD, May 2010.

**Rudolph AE**, Crawford ND, Latkin C, White K, Jones K, Celentano D, and Fuller CM. Individual, group, and neighborhood-level characteristics associated with successful peer recruitment of illicit drug users in a study using respondent driven sampling in New York City. [Abstract# 782202 Poster] 72<sup>nd</sup> College of Problems of Drug Dependence, Scottsdale, Arizona, June 2010.

Ropelewski L, Hulbert A, **Rudolph A**, Kiertiburanakul S, Zur J, Moleko AG, and Latimer WW. Prevalence and Risk Factors of Human Immunodeficiency Virus and Hepatitis Virus Infections Among Black Non-injection Drug Users in South Africa. [Abstract# 775459 Poster] 72<sup>nd</sup> College of Problems of Drug Dependence, Scottsdale, Arizona, June 2010.

**Rudolph AE**, Crawford ND, Latkin C, Heimer R, Jones K, Benjamin EO, Celentano DD, Fuller CM. Sub-populations of illicit drug users reached by targeted outreach and respondent driven sampling strategies: Implications for research and public health practice. [Abstract# THPE0235 Poster Presentation] XVIII International AIDS Conference, Vienna, Austria, July 2010.

**Rudolph AE**, Crawford ND, Latkin C, White K, Benjamin EO, Celentano D, and Fuller CM. Individual, study, and neighborhood level characteristics associated with peer recruitment of young illicit drug users: Optimizing respondent driven sampling. [Abstract #TUPDC102 Oral Poster Presentation] XVIII International AIDS Conference, Vienna, Austria, July 2010.

Crawford ND, Jones K, **Rudolph AE**, and Fuller CM. 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). [Abstract #1373 Oral Presentation] 9th International Conference on Urban Health, New York City NY, October 2010.

**Rudolph AE**, Crawford ND, Latkin C, and Fuller CM. Changes in network composition in a Respondent Driven Sample. [Abstract 504# Poster Presentation] 9th International Conference on Urban Health, New York City NY, October 2010.

**Rudolph AE**, Crawford ND, Latkin C, Fuller CM. Changes in HIV testing and drug treatment enrollment among RDS recruits followed prospectively. [Abstract #602 Oral Presentation] 9th International Conference on Urban Health, New York City NY, October 2010.

Turner A, Jones K, **Rudolph AE**, Crawford ND, and Fuller CM. Physical victimization and risky sexual partners among drug users in New York City. [Abstract#229981 Oral Presentation] 138<sup>th</sup> APHA Annual Meeting and Exposition, Denver, CO, November 2010.

**Rudolph AE**, Fuller CM, Latkin C. Biases in respondent-driven samples: the role of degree weights. [Abstract#14492 Oral Presentation] 10th International Conference on Urban Health, Belo Horizonte, Brazil, November 2011.

**Rudolph AE**, Brouwer K, Patterson T, Strathdee S. Correlates of amphetamine use among long-haul truck drivers in Nuevo Laredo and Ciudad Hidalgo. [Abstract#14269 Oral Presentation] 10th International Conference on Urban Health, Belo Horizonte, Brazil, November 2011.

**Rudolph AE**, Linton S, Penniman T, and Latkin C. Individual, network, and neighborhood correlates of exchange sex among female non-injection drug users in Baltimore, MD (2005-2007). [Abstract #2496 Poster Exhibition] XIX International AIDS Conference, Washington D.C., USA, July 2012.

Wagner GA, Pacold M, Pond SK, Caballero G, Chaillon A, **Rudolph AE**, Morris SR, Little SJ, Richman DD, Smith DM. (2013) Incidence and Prevalence of Intraclade B HIV-1 Dual Infection in At-Risk Men in the United States. [Abstract #H-132 Poster] 20<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Atlanta, GA, USA, March 2013.

Meacham MC, Brouwer KC, **Rudolph AE**, Rusch ML, Patterson TL, Lozada M, Vera A, Strathdee SA, Roesch SC. Polydrug use and risk of blood borne and sexually transmitted infections among heroin IDUs in Tijuana, Mexico. [Abstract# 104 Poster] 75<sup>st</sup> College of Problems of Drug Dependence, San Diego, California, June 2013.

**Rudolph AE**, Crawford ND, Latkin C, Fowler J, Fuller CM. (2013) Individual/ Neighborhood Correlates of Membership in HIV Prevalent Drug Networks. [Oral Presentation] URISA GIS in Public Health Conference, Miami, Florida, USA June 2013.

**Rudolph AE**, Strathdee SS, Lozada R, Vera A, Brouwer KC. (2013) Network & Spatial Correlates of Active Syphilis among IDUs in Tijuana, Mexico. [Oral Presentation] URISA GIS in Public Health Conference, Miami, Florida, USA June 2013.

**Rudolph AE** and Fuller CM. (2014) Comparing geographic coverage and spatial dependence of drug users recruited through Respondent-driven sampling and targeted street outreach. [Oral Presentation] INSNA Sunbelt XXXIV Conference, St. Pete Beach, Florida, USA February 2014.

**Rudolph AE** and Fuller Lewis C. (2014) Recruitment of spatially proximal peers: A potential for spatially influenced HIV prevalence estimates in respondent-driven samples. [Poster exhibition] 20<sup>th</sup> International AIDS Conference, Melbourne, Australia, 20-25 July 2014.

**Rudolph AE**, Gaines T, Lozada R, Vera A, Brouwer KC. (2014) Measuring and accounting for outcome-correlated recruitment and geographic recruitment bias in a respondent-driven sample of people who inject drugs in Tijuana, Mexico. [Oral Poster Discussion] 20<sup>th</sup> International AIDS Conference, Melbourne, Australia, 20-25 July 2014.

Pollini RA, **Rudolph AE**, Case P. (2014) Syringe Access Remains Low in Rural California under Voluntary Nonprescription Syringe Sales Law - Requiring ADAP Pharmacies to Sell Syringes Could Triple Access. [Poster exhibition] 20<sup>th</sup> International AIDS Conference, Melbourne, Australia, 20-25 July 2014.

**Rudolph AE**, Crawford ND, Fuller CM. (2015) Multiplex relationships and HIV: Implications for network-based interventions. [Oral Presentation] INSNA Sunbelt XXXV Conference, Brighton, UK June 23-28, 2015.

Rivera A, **Rudolph AE**, Crawford ND, Amesty S, Jani B, Fuller CM. (2015) Impact of a pharmacy-based intervention to increase access to use non-occupational post-exposure prophylaxis for HIV prevention among a marginalized population in New York City: The iPEPcare study" [Abstract 334397: Poster presentation] 143rd APHA Annual Meeting and Exposition, Chicago, USA. October 31 - November 4, 2015.

Rivera A, **Rudolph AE**, Crawford ND, Amesty S, Jani B, Fuller CM. (2015) 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 [Abstract: 327920; Roundtable presentation] 143rd APHA Annual Meeting and Exposition, Chicago, USA. October 31 - November 4, 2015.

**Rudolph AE**, Young AM, Havens J. (2016) Peer influence on injection status: social proximity vs. geographic proximity. [Abstract: 399; Oral Presentation] XXXVI Sunbelt Conference of the International Network for Social Network Analysis, Newport Beach, California. April 5-10, 2016.

Young AM, Hopkins C, **Rudolph AE**, Havens JR. (2016) Accuracy of egos' report of alters' drug use: Feasibility of using behavioral data to help resolve duplicates in sociometric risk networks. [Abstract: 386; Oral Presentation] XXXVI Sunbelt Conference of the International Network for Social Network Analysis, Newport Beach, California. April 5-10, 2016.

**Rudolph AE**, Robertson Bazzi A, Fish S. (2016) Participant perspectives on ethical considerations for the collection of geographic information in HIV and substance use research. [Abstract: A-792-0362-00716; Poster Exhibition] 21<sup>th</sup> International AIDS Conference, Durban, South Africa, July 18-22, 2016.

**Rudolph AE**, Young AM, Havens J. (2017) Rationale for a network-based overdose prevention program in rural Appalachia. [Abstract: XXX; Oral Presentation] ARS'17 workshop, Naples, Italy, May 16, 2017.

Young AM, **Rudolph AE**, Havens J. (2017) Assessing recall bias in network ties reported by people who use drugs. [Abstract: XXX; Oral Presentation] ARS'17 workshop, Naples, Italy, May 16, 2017.

**Rudolph AE**, Young AM, Havens J. (2017) A rural/urban comparison of privacy and confidentiality concerns associated with providing sensitive location information in epidemiologic research involving persons who use drugs. [Abstract: 9887; Poster Presentation] GEOMED 2017 – International Conference on Spatial Statistics, Spatial Epidemiology & Spatial Aspects of Public Health, Porto, Portugal, September 7-9, 2017.

**Rudolph AE**, Tobin K, Latkin C. (2017) Developing a web-based survey application to collect contextually-relevant geographic data with exposure times. [Abstract: 9858; Oral Presentation] GEOMED 2017 – International Conference on Spatial Statistics, Spatial Epidemiology & Spatial Aspects of Public Health, Porto, Portugal, September 7-9, 2017.

Young AM, Hopkins C, Borgatti SP, Friedman SR, Havens JR, Muth SQ, **Rudolph AE**. (2017) Connecting the dots: New approaches and software for determining linkages in transmission and risk networks. [Abstract 4309.0; Oral Presentation] American Public Health Association Annual Meeting and Exposition. Atlanta, Georgia. November 4-8, 2017.

Jamila K. Stockman, Noor A. Al-Alusi, Jacquelyn C. Campbell, Kristin K. Gundersen, Andrea Cimino, **Abby E. Rudolph**. (2018) Steady male sexual partner network correlates of forced sex among Black women at risk for HIV in Baltimore, MD, USA. [Abstract Number A-899-0214-12105 Poster Exhibition] 22nd International AIDS Conference. Amsterdam, Netherlands, 23-27 July 2018.

#### *Invited Seminars*

"Assessing the geographic coverage and spatial clustering of illicit drug users". Guest speaker at the Center for Community Health Prevention Educational Forum, Drexel University, School of Public Health. Philadelphia, PA (January 20, 2015).

"Integrating individual, spatial, and network analysis to inform HIV prevention strategies". Guest speaker at the Epidemiology Forum, Drexel University, School of Public Health. Philadelphia, PA (April 22, 2015).

"Individual and neighborhood correlates of membership in drug using networks with a higher prevalence of HIV in New York City (2006-2009)". Outstanding Research Communications Session at the American College of Epidemiology 2014 Annual Meeting, Silver Spring MD (September 8, 2014).

"The Injection Risk Environment: Implications for HIV and HCV Transmission and Prevention". Boston-Providence Center for AIDS Research Symposium. (December 1, 2016).

"Developing a web-based survey application to collect contextually-relevant geographic data with exposure times." Mobile & Electronic Health ARC Meeting. (March 7, 2017).

"Ethical considerations for collecting geographic data in studies among persons who use drugs." University of Kentucky College of Public Health. (September 21, 2017).

"Examining the social context of injection drug use: Social proximity vs. geographic proximity to others who inject drugs" Boston University's Transformative Training Program in Addiction Science Seminar Series (January 19, 2018).

"Developing an Overdose Prevention Mobile App for Rural Appalachia" DIORC Meeting, Fishkill, NY. (March 27, 2018)

"Respondent-driven sampling: Considerations for research in rural and urban settings" Chicago Center for HIV Elimination. University of Chicago, IL (June 1, 2018).