

Curriculum Vitae  
(2026)

**Pieter Baker, PhD, MPH**

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**Education**

**Doctor of Philosophy in Public Health (2021)**

UCSD / SDSU Joint Doctoral Program in Public Health (Global Health Track)

Research Focus: Infectious Disease, Substance Use, HIV/AIDS

Dissertation Title: "Drugs, Germs, and Justice: Examining Police Practices and the HIV Risk Environment for People who Inject Drugs"

**Master of Public Health - Epidemiology (2014)**

Columbia University, Mailman School of Public Health

Certificate – Infectious Disease Epidemiology

Graduate Thesis: "Prevalence and Risk Factors for Community-Associated Methicillin-Resistant *Staphylococcus aureus* in New York City from 2006-2012"

**Bachelor of Science in Biology, cum laude, Honor's Scholar (2010)**

Point Loma Nazarene University

Honor's Project Thesis: "Antibiotic-Resistant Bacteria Pollution in San Diego's Coastal Wetlands: A Survey of Plasmid-Mediated Quinolone Resistance Genes in Local Sediments"

**Professional Experience**

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| Assistant Professor of Epidemiology<br>University of South Carolina<br>Arnold School of Public Health<br>Department of Epidemiology & Biostatistics                                                                                       | 2023-Present |
| Postdoctoral Research Fellow– ALIVE Study<br>Johns Hopkins University – Bloomberg School of Public Health<br>Department of Epidemiology<br>HIV Epidemiology and Prevention Sciences Training Program (NIH T32 AI102623, PI: Beyrer/Mehta) | 2021-2023    |
| Predoctoral Research Fellow - SHIELD Study<br>University of California, San Diego<br>Division of Infectious Disease and Global Public Health, School of Medicine<br>HIV & Substance Use T32 (NIH T32 DA023356, PI:Strathdee)              | 2019-2021    |
| Human Rights Fellow – HIELO Study<br>Human Rights Center, University of California, Berkeley<br><u>H</u> Health Impact of <u>I</u> mmigration <u>E</u> nforcement and <u>L</u> ocation Displacement (Proyecto HIELO, PI: Baker)           | 2018- 2019   |
| Research Program Manager – Antiviral Research Center<br>University of California, San Diego<br>Division of Infectious Disease and Global Public Health, School of Medicine                                                                | 2015- 2018   |

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|---------------------------------------------------------------------------------------------------------|------------|
| Ebola Surveillance Coordinator – International Rescue Committee<br>Freetown, Western Area, Sierra Leone | 2014- 2015 |
| Disease Control Officer – Westchester County Department of Health<br>New Rochelle, New York             | 2012- 2014 |
| Research & Development Chemist 1 – INOVA Diagnostics, Inc<br>San Diego, CA                              | 2010-2012  |

### **Research Fellowships, Grants and Awards (Awarded, Pending & Under Review)**

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| NIH (NIDA) R34 Research Project Grant<br><i>REACH SC: Respondent-driven Engagement to Activate Community Health in South Carolina</i><br>(\$638,491, Role: PI)                                                                            | (Pending) 2026-2029 |
| NIH (NIDA) R21 Research Project Grant<br><i>Scaling wastewater-based epidemiology programs to rapidly address novel illicit substances in the Southeastern United States</i> (\$387,673 Role: Co-I, PI: Harrison)                         | (Pending) 2026-2029 |
| NIH (NIDA) R21 Research Project Grant<br><i>Impacts of the Bicillin Shortage on Syphilis Treatment and Control in South Carolina</i> (\$392,330 Role: Co-I, PI: Harrison)                                                                 | (Pending) 2026-2029 |
| USC ASPIRE I Pilot Grant<br><i>Identifying Drivers of Death Behind Bars: Epidemiologic Analysis of All-cause and Cause-specific mortality in South Carolina's Carceral Facilities</i> (\$14,992, Role: PI)                                | 2025-2026           |
| NIH (NIDA) R01 Research Project Grant<br><i>Harnessing Predictive Modeling to Identify Current and Emerging Hotspots within the HIV/SUD Syndemic.</i> (\$3.6 million, Role: Co-I, MPls: Zhang/Andrews)                                    | 2025-2029           |
| Health Resources and Services Administration (HRSA) Training Grant<br><i>Integrated Care for Recovery (I-CaRe) Center in the Department of Psychology at the University of South Carolina</i> (\$1.35 million, Role: Co-I, PI: Harrison)) | 2025-2029           |
| CDC/NACCHO Minority HIV/AIDS Fund (MHAF)<br><i>Expanding access to Culturally Tailored HIV and STI Prevention Services in the Rural South through Innovative Partnerships</i> (\$200,000, Role: Co-I, MPls: Harrison, Crouch)             | 2025-2026           |
| R25 Big Data Health Science Center Fellowship<br><i>Leveraging Big Data Approaches to Identify People Who Inject in the Electronic Medical Record Database in South Carolina</i> (NIAID R25AI164581, Role: R25 Fellow)                    | 2024-2025           |
| T32 Postdoctoral Fellowship Award– National Institute of Health<br>HIV Epidemiology and Prevention Sciences Training Program (John Hopkins University)<br>\$54,000 in research and salary support (NIDA T32 AI102623, PI: Beyrer/Mehta)   | 2021-2023           |
| T32 Predoctoral Fellowship – National Institute of Health<br>HIV & Substance Use Training Program (University of California, San Diego)<br>\$25,000 in research and salary support (NIDAT32 DA023356, PI:Strathdee)                       | 2020-2021           |

### **Professional Service**

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| Harm Reduction Journal, Associate Editor                        | 2026-Present |
| HIV Planning Council, Voting Member (Need Assessment Committee) | 2025-Present |
| SC Center for Excellence in Addiction, Technical Expert         | 2024-Present |
| South Carolina Harm Reduction Coalition, Member                 | 2023-Present |
| Midlands Harm Reduction Collective, Co-founder                  | 2023-Present |
| Ad Hoc Grant Reviewer, DOJ Bureau of Justice Assistance         | 2023-Present |

### **Professional Affiliations (Past & Current)**

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| World Congress of Epidemiology | 2024-Present |
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| International AIDS Society (IAS)              | 2019-Present |
| American Public Health Association (APHA)     | 2018-Present |
| College on Problems of Drug Dependence (CPDD) | 2017-Present |
| American Society for Microbiology (ASM)       | 2011-2104    |

### Select Publications

**Baker P.** Community event-based surveillance as trust infrastructure for Bundibugyo Ebola response. *International Journal of Infectious Diseases*. 2026;109109. doi:10.1016/j.ijid.2026.109109.

Gross S, Gao H, Hinds OM, **Baker P**, Ma TF, Olatosi B, Zhang J, Andrews CM. Temporal Trends in SUD-Related Hospital Encounters among People Living with HIV in South Carolina, 2005–2023. *Drug and Alcohol Dependence*. (Under Review).

Hinds OM, Gao H, Gross SB, **Baker P**, Olatosi B, Ma TF, Zhang J, Andrews C. Trends in Opioid-Related Hospital Visits among People Living with HIV in South Carolina, 2006–2023. *American Journal of Public Health*. (Under Review).

Akhtar SS, **Baker P**, Li Y, Zhang J, Olatosi B. Prior-Year Substance Use Disorders and Subsequent HIV Retention in Care Among Men Living with HIV Who Have Sex with Men. *AIDS and Behavior*. 2026. doi:10.1007/s10461-026-05268-2.

**Baker P**, Chen A, Chen S, Olatosi B, Ma TF, Litwin A, Andrews C, Zhang J. Spatial Organization and Geographic Inequality in Diagnosed Substance Use Disorder Healthcare Encounters Among People Living With HIV in South Carolina. *Health & Place*. (Under Review).

Bowes DA, **Baker P**, Rose L, Harrison SE. Scaling Wastewater-Based Epidemiology to Strengthen Harm Reduction: From Proof of Concept to Public Health Practice. *Harm Reduction Journal*. (Under Review).

Abdoulaye M, Avalos C, **Baker P**. Influenza Non-Vaccination Among South Carolina Adults: Sociodemographic, Health Care Access, and Social Determinants Correlates in BRFSS, 2022–2023. *American Journal of Infection Control*. (Under Review).

**Baker P**, Xiao J, Ma Y, He B, Olatosi B, Zhang J. The Role of Ryan White HIV/AIDS Program Services in Sustaining Viral Suppression Among People Living with HIV: Insights from South Carolina. *Journal of Acquired Immune Deficiency Syndromes*. 2026;101(5):449–454. doi:10.1097/QAI.0000000000003831.

**Baker, P.**, Burrows M., Frazier, A., Harrison, S. *From Lived Experience to Public Health Evidence: A Community Collective Approach to Harm Reduction Knowledge Generation*. (manuscript under review at American Journal of Public Health, AJPH).

**Baker P**, Harrison S. *The Persistence of Outdated HIV Criminalization Laws in South Carolina: A Call for Reform*. (manuscript under review at Southern Medical Journal)

Mohona TM, Chen Y, Zhang C, Chen S, Olatosi B, Andrews C, **Baker P**, Zhang J. Longitudinal County-Level Functional Clustering of Hospital-Documented Substance Use Disorder Among People Living With HIV in South Carolina, 2005–2023. *AIDS and Behavior*. (Under Review).

**Baker P**, Rodriguez C, Falluji E, Alsallum S, Yaseri A, Weinstein A, Mohsin TM. Reducing Harm Behind Bars: A Systematic Review of Implementation Strategies for Harm Reduction Interventions in Carceral Settings. *International Journal of Prison Health*. (Under Review).

Gual-Gonzalez L, Boehme H, Leasure P, **Baker P**, Nolan S. An Experimental Investigation of Federal Messaging on Public Support for Enforcement- and Treatment-based approaches for Opioid Overdose Prevention in South Carolina. *Health & Justice* 13, 46 (2025).

**Baker P**, Beletsky L, Abramovitz D, Artamonova I, Cepeda J, Arredondo J, Rocha-Jimenez T, Del Pozo B, Marotta P, Patterson T, Strathdee S. Pathways from Police Training to Community Health Benefits: Secondary Analysis of the SHIELD Intervention. *Health & Justice*. (Under Review)

**Baker P**, Genberg B, Astemborski J, Mehta S, Kirk G, Cepeda J. Relationship between the Patient Activation Measure and Utilization of Healthcare and Harm Reduction Services among People who Inject Drugs in Baltimore, Maryland. *Drug and Alcohol Review* (43;7), 2024.

**Baker P**, Cepeda J, Schluth C, Astemborski J, Feder K, Rudolph J, Kirk G, Mehta S, Genberg B. Time-to-completion of COVID-19 vaccination primary series varies by HIV viral load status among people who inject drugs in Baltimore, Maryland. *Preventive Medicine Reports* (36), 2023.

Feder KA Sun J, Rudolph JE, Cepeda J, Astemborski J, **Baker P**... Mortality by Cause of Death during Year 1 of the COVID-19 Pandemic in a Cohort of Older Adults from Baltimore Maryland who Have Injected Drugs. *International Journal of Drug Policy*, volume 109, 2022

**Baker P**, Beletsky L, Garfein R, Pitpitan E, Oren E, Strathdee SA, Cepeda JA. Impact of SHIELD Police Training on Knowledge of Syringe Possession Laws and Related Arrests in Tijuana, Mexico. *American journal of public health*. 2022;112(6):860-4. doi: 10.2105/ajph.2021.306702. PubMed PMID: 35446602.

**Baker, P.**, Arredondo, J., Borquez, A., Clairgue, E., Mittal, M. L., Morales, M., ... & Cepeda, J. A. (2021). Municipal police support for harm reduction services in officer-led referrals of people who inject drugs in Tijuana, Mexico. *Harm reduction journal*, 18(1), 1-10.

Beletsky, L, Abramovitz, D, **Baker, P**, Arredondo, J, Rangel, G, Artamonova, I, ... & Strathdee, S. A. (2021). Reducing police occupational needle stick injury risk following an interactive training: the SHIELD cohort study in Mexico. *BMJ open*, 11(4), e041629.

**Baker P**, Beletsky L, Avalos L, Venegas C, Rivera C, Strathdee SA, Cepeda J. Policing Practices and Risk of HIV Infection Among People Who Inject Drugs, *Epidemiologic Reviews*, Volume 42, Issue 1, 2020, Pages 27–40

Olgin GK, Bórquez A, **Baker P**, Clairgue E, Morales M, Bañuelos A, Arredondo J, Harvey-Vera A, Strathdee S, Beletsky L, Cepeda JA. Preferences and acceptability of law enforcement initiated referrals for people who inject drugs: a mixed methods analysis. *Subst Abuse Treat Prev Policy*. 2020 Oct 2;15(1):75.

Morales, M., Rafful, C., **Baker, P.**, Arredondo, J., Kang, S., Mittal, M. L., Rocha-Jiménez, T., Strathdee, S. A., & Beletsky, L. (2020). "Pick up anything that moves": a qualitative analysis of a police crackdown against people who use drugs in Tijuana, Mexico. *Health & justice*, 8(1), 9.

Beletsky, L., Abramovitz, D., Arredondo, J., **Baker, P.**, Artamonova, I., Marotta, P., Mittal, M. L., Rocha-Jimenez, T., Cepeda, J. A., Morales, M., Clairgue, E., Patterson, T. A., & Strathdee, S. A. (2020). Addressing Police Occupational Safety During an Opioid Crisis: The Syringe Threat and Injury Correlates (STIC) Score. *Journal of occupational and environmental medicine*, 62(1), 46–51.

Rocha-Jiménez, T., Mittal, M. L., Artamonova, I., **Baker, P.**, Cepeda, J., Morales, M., Abramovitz, D., Clairgue, E., Bañuelos, A., Patterson, T., Strathdee, S., & Beletsky, L. (2019). The Role of Gender in the Health and Human Rights Practices of Police: The SHIELD Study in Tijuana, Mexico. *Health and human rights*, 21(1), 227–238.

Oral abstracts of the 10th IAS Conference on HIV Science, 21-24 July 2019, Mexico City, Mexico. *J Int AIDS Soc.* 2019;22 Suppl 5(Suppl Suppl 5):e25327. doi:10.1002/jia2.25327.

Arredondo, J., Beletsky, L., **Baker, P.**, Abramovitz, D., Artamonova, I., Clairgue, E., Morales, M., Mittal, M. L., Rocha-Jimenez, T., Kerr, T., Banuelos, A., Strathdee, S. A., & Cepeda, J. (2019). Interactive Versus Video-Based Training of Police to Communicate Syringe Legality to People Who Inject Drugs: The SHIELD Study, Mexico, 2015-2016. *American journal of public health*, 109(6), 921–926.

Mittal, M. L., Artamonova, I., **Baker, P.**, Strathdee, S. A., Cepeda, J., Bañuelos, A., Morales, M., Arredondo, J., Rocha-Jimenez, T., Clairgue, E., Bustamante, E., Patiño, E., Gaines, T., & Beletsky, L. (2018). Improving police conceptual knowledge of Mexico's law on cannabis possession: Findings from an assessment of a police education program. *The American journal on addictions*, 27(8), 608–611.

Beletsky, L., **Baker, P.**, Arredondo, J., Emuka, A., Goodman-Meza, D., Medina-Mora, M. E., Werb, D., Davidson, P., Amon, J. J., Strathdee, S., & Magis-Rodriguez, C. (2018). The global health and equity imperative for safe consumption facilities. *Lancet (London, England)*, 392(10147), 553–554.

Morales, M., Rafful, C., Gaines, T. L., Cepeda, J. A., Abramovitz, D., Artamonova, I., **Baker, P.**, Clairgue, E., Mittal, M. L., Rocha-Jimenez, T., Arredondo, J., Kerr, T., Bañuelos, A., Strathdee, S. A., & Beletsky, L. (2018). Factors associated with extrajudicial arrest for syringe possession: results of a department-wide survey of municipal police in Tijuana, Mexico. *BMC international health and human rights*, 18(1), 36.

Crowe, S., Hertz, D., Maenner, M., Ratnayake, R., **Baker, P.**, Lash, R. R., Klena, J., Lee-Kwan, S. H., Williams, C., Jonnie, G. T., Gorina, Y., Anderson, A., Saffa, G., Carr, D., Tuma, J., Miller, L., Turay, A., Belay, E., & Centers for Disease Control and Prevention (CDC) (2015). A plan for community event-based surveillance to reduce Ebola transmission - Sierra Leone, 2014-2015. *MMWR. Morbidity and mortality weekly report*, 64(3), 70–73.

Cummings, D. E., Archer, K. F., Arriola, D. J., **Baker, P. A.**, Faucett, K. G., Laroya, J. B., Pfeil, K. L., Ryan, C. R., Ryan, K. R., & Zuill, D. E. (2011). Broad dissemination of plasmid-mediated quinolone resistance genes in sediments of two urban coastal wetlands. *Environmental science & technology*, 45(2), 447–454.

## Scientific Presentations & Abstracts

Patel K, **Baker P**. What Can AI Contribute to Rapid Qualitative Analysis? Comparing Human and AI Summaries of Harm Reduction Interviews. Poster presentation. USC Provost AI in Teaching and Research Symposium. Columbia, SC. September 11, 2026.

Muhammad GP, **Baker P**, Li X. Stimulant Subtype, Environmental Vulnerability, and Treatment Completion: A National Analysis of 5.9 Million TEDS-D Discharges. Poster presentation. College on Problems of Drug Dependence (CPDD) Annual Scientific Meeting. 2026.

Mohona TM, Gao H, Chen A, Andrews C, **Baker P**, Zhang J. Mapping County-Level Trajectories of Substance Use Disorder Among People with HIV in South Carolina: A Functional Data and Clustering Analysis. Poster presentation. College on Problems of Drug Dependence (CPDD) Annual Scientific Meeting. 2026.

Joy E, Weaver K, Mohona TM, **Baker P**, Bornstein M, Crouch E, Harrison SE. Knowledge and Attitudes on Overdose Prevention among HIV Campus Ambassadors in South Carolina. Poster presentation. 2026 Joint Meeting on Youth Prevention, Treatment, and Recovery (JMYPTR). Baltimore, MD. March 2026.

Congdon M, Mohona TM, **Baker P**, Harrison SE. Longitudinal Outcomes of Opioid Use Disorder: A 12-month Retrospective Chart Review. Poster presentation. Discover USC 2026. Columbia, SC. April 24, 2026. (**Received Undergraduate Research Poster Award**)

Abdoulaye Bila M, Avalos C, **Baker P**. Modeling Influenza Vaccination Patterns Among South Carolina Adults Using 2022 and 2023 BRFSS Data. Poster presentation. Discover USC 2026. Columbia, SC. April 24, 2026.

Harrison SE, Carter R, Frazier A, **Baker P**. Scaling Up Harm Reduction in the Midlands Region of South Carolina: Lessons Learned from a Community Collective. Poster presentation. 4th Annual Florida Harm Reduction Conference. St. Petersburg, FL. January 2026.

**Baker P**, Bowes D, Harrison SE. Scaling Wastewater-Based Epidemiology to Strengthen Harm Reduction in the South: From Proof of Concept to Public Health Practice. Poster presentation. 4th Annual Florida Harm Reduction Conference. St. Petersburg, FL. January 2026.

Harrison SE, **Baker P**, Burrows M, Powell A, Bornstein M, Crouch E, Mohona TM, Weaver K, Joy E, Sinn H, Hale A. Expanding Access to HIV and STI Services through Syringe Service Programs in the South: Research Findings and Community Perspectives. Panel presentation. 4th Annual Florida Harm Reduction Conference. St. Petersburg, FL. January 2026.

**Baker P**, Mohsin T, Ategbale M, Wasilczuk M. Deaths Behind Bars in South Carolina (2020-2022): Comparison of All-cause and Cause-specific deaths identified by Federal and Alternative Data Reporting Strategies. APHA Annual Meeting. Washington D.C. November 4, 2025.

Akhtar S. **Baker P**, Zhang H, Olatosi B. Substance Use Disorder and HIV Retention in Care among Men who have sex with men living with HIV. Academy Health Annual Research Meeting 2025. Minneapolis, MN. June 9, 2025

**Baker P**, Harrison S, Mohsin T. "Harm Reduction 101" SC HIV, HCV & Viral Hepatitis

Seminar, (Columbia Metropolitan Convention Center, SC) October 22, 2025

**Pieter Baker.** Leveraging Big Data to Identify Injection Drug Use and Related Infections. Big Data Health Science Center Conference. University of South Carolina. February 14, 2025

**Pieter Baker,** Sayward Harrison, Azhene Powell, Marc Burrows. Harm Reduction 101: Reducing Risk, Restoring Hope. South Carolina HIV, STD, & Viral Hepatitis Conference. Columbia Metropolitan Convention Center, Columbia, SC. October 24, 2024.

**Pieter Baker.** 2024. Recent exposures to interpersonal violence and subsequent non-fatal overdose among female sex workers in Baltimore. World Congress of Epidemiology. Cape Town, South Africa. September 26, 2024

**Pieter Baker.** 2024. Reducing Harm Behind Bars: A Scoping Review of Implementation Strategies for Harm Reduction Interventions in Carceral Settings. The 25th International AIDS Conference (AIDS 2024). Munich, Germany (Virtual Presentation). July 26, 2024.

**Pieter Baker.** 2023. HIV Viral Load and Time-to-COVID-19 Vaccinations among People Who Inject Drugs. Conference on Retroviruses and Opportunistic Infections. Seattle, Washington.

**Pieter Baker.** 2020. Modifying police behavior to prevent needle stick injuries and reduce community HIV risk: Dual public health benefits of SHIELD police training in Tijuana, Mexico. AIDS 2020. Virtual.

**Pieter Baker.** 2019. Access to healthcare and medical care experiences among asylum seekers detained in U.S. immigrant detention centers. APHA Annual Meeting and Expo Nov 2, 2019. Philadelphia, PN.

**Pieter Baker.** 2019. Mental health experiences and resilience among asylum seekers detained in U.S. immigrant detention centers. APHA Annual Meeting and Expo Nov 2, 2019. Philadelphia, PN.

**Pieter Baker.** 2019. Policing Practices and HIV Risk among People who Inject Drugs – a Systematic Literature Review. International AIDS Society Annual Meeting. Mexico City, Mexico. [Winner: Outstanding Research in Injection Drug Use Award (\$2,000)]

**Pieter Baker.** 2018. Police Attitudes towards people who use drugs as a structural determinant of enforcement practices that drive HIV risk in Tijuana, Mexico. APHA Annual Meeting and Expo (Spirit of 1848 Caucus) Nov 12, 2018. San Diego, CA.

**Pieter Baker.** June 12, 2018. Policing Practices and HIV Risk among People who Inject Drugs – preliminary findings. College on Problems of Drug Dependence Annual Meeting. San Diego, CA.

**Pieter Baker.** Adopting community event-based surveillance for Ebola in Kono. Dec. 23, 2014. District Ebola Response Center (DERC) Meeting. Kono, Sierra Leone.

**Pieter Baker.** 2013. Outbreak investigation of *Campylobacter jejuni* at a high profile event in Westchester County. Columbia University Mailman School of Public Health. Department of Epidemiology, New York, NY.

**Pieter Baker.** 2010. Antibiotic-Resistant Bacteria Pollution in San Diego's Coastal Wetlands: A Survey of Plasmid-Mediated Quinolone Resistance Genes in Local Sediments. PLNU Honor's Scholar Thesis Defense. San Diego, CA.