

**BIOGRAPHICAL SKETCH**

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NAME: Jake (Jesse) Michael Pry

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ERA COMMONS USER NAME (credential, e.g., agency login): pryjesse

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POSITION TITLE: Assistant Professor, Senior Epidemiologist

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EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Texas A&M University, College Station, TX, USA	BS	Aug 2007	Biology & Genetics
Texas A&M University, School of Public Health, College Station, TX, USA	MPH	Aug 2009	Epidemiology & Biostatistics
University of California, Davis, CA, USA	PhD	Mar 2019	Epidemiology
School of Medicine, Washington University, St. Louis MO, USA	Post Doctorate	Sep 2020	Implementation Science

**A. Personal Statement**

I am an assistant professor with the University of California Davis, senior epidemiologist in the California Department of Public Health, and senior epidemiologist with the Centre for Infectious Disease Research in Zambia. In my role as assistant professor, I served on the inaugural diversity, equity, and inclusion committee for the ,teach several classes including principles of epidemiology, conversations in global health, and social and behavioral determinants of health. As a senior epidemiologist for the California Department of Public Health, I conducted COVID-19 research in the enhanced COVID-19 surveillance unit where was the principle investigator (PI) for a test-negative case-control study, that led to a landmark publication on face masking effectiveness in Morbidity and Mortality Weekly Report (MMWR) in 2022. I also was a co-PI for the California SARS-CoV-2 and Respiratory Virus Sentinel Surveillance project which provided insight concerning respiratory co-morbidities among individuals seeking COVID-19 testing. In addition to teaching and research in California, I conduct research in Zambia with the Centre for Infectious Disease Research in Zambia (CIDRZ) focusing on HIV/non-communicable disease (NCD) co-morbidities and, more recently, understanding the impact of the pandemic on HIV care and retention. Global public health is currently at the fore of my work once again with a recent move back to Lusaka, Zambia to be senior epidemiologist at CIDRZ. As senior epidemiologist and assistant professor I have a growing roster of mentees and advisees including two master of public health students, mentor for three PhD students including two at UC Davis and one at the London School of Hygiene and Tropical medicine, and am currently sitting on PhD qualifying committee for four students at UC Davis. At CIDRZ, I also help to build epidemiological capacity through routine training/workshops. I remain aware of the latest with global health research through service as an academic editor for PLOS Global Public Health and as reviewer for BMJ Global Health and The Lancet Global Health. Finally, I am committed to improving epidemiological capacity in the sub-Saharan Africa region, especially Zambia evidenced by training, in-house advising, and mentorship at CIDRZ including supporting (as senior author) two junior researchers to publish their first, first authored manuscript in BMJ Open and JMIR. As a GloCal mentor, I look forward to additional opportunities to build the public health workforce in resource limited settings.

**B. Positions, Scientific Appointments and Honors****Positions and Scientific Appointments**

2023 - Senior Epidemiologist, Centre for Infectious Disease Research in Zambia, Lusaka

2022 - Assistant Professor, University of California, Davis, Davis, CA

2020 - 2023 Senior Epidemiologist, California Department of Public Health, Richmond, CA

2016 - 2020 Epidemiologist, Centre for Infectious Disease Research in Zambia, Lusaka  
2013 - 2016 Syndromic Surveillance Epidemiologist, Sacramento Country Department of Health and Human Services, Sacramento, CA  
2011 - 2013 Regional Communicable Disease Epidemiologist, Shasta County Department of Health and Human Services, Redding, CA  
2010 - 2011 Associate Laboratory Director, Zambia Emory HIV Research Group (ZEHRP), Lusaka

### **Honors**

2012 Delta Omega, Texas A&M University School of Public Health  
2023 Graduate Program Advising and Mentorship Award, Graduate Studies, UC Davis

### **C. Contribution to Science**

1. Optimizing use of HIV care and treatment data in Zambia: Since I joined CIDRZ, I have been entrenched in data from myriad projects including reviews of the HIV program and policy discussion I at a national level. In addition to helping translate data to practice options at dissemination meetings, I have helped stateside researchers add meaning and context to the data collected and stored in Zambia.

- a) Pry JM, Mwila C, Kapesa H, Mulabe M, Frimpong C, Moono M, Savory T, Bolton-Moore C, Herce ME, Iyer S. Estimating potential silent transfer using baseline viral load measures among people presenting as new to HIV care in Lusaka, Zambia: a cross-sectional study. *BMJ Open*. 2023 May 25;13(5):e070384. PubMed Central PMCID: PMC10231001.
- b) Bolton Moore C, Pry JM, Mukumbwa-Mwenechanya M, Eshun-Wilson I, Topp S, Mwamba C, Roy M, Sohn H, Dowdy DW, Padian N, Holmes CB, Geng EH, Sikazwe I. A controlled study to assess the effects of a Fast Track (FT) service delivery model among stable HIV patients in Lusaka Zambia. *PLOS Glob Public Health*. 2022;2(8):e0000108. PubMed Central PMCID: PMC10021658.
- c) Pry JM, Sikombe K, Mody A, Iyer S, Mutale J, Vlahakis N, Savory T, Wa Mwanza M, Mweebo K, Mwila A, Mwale C, Mukumbwa-Mwenechanya M, Kerkhoff AD, Sikazwe I, Bolton Moore C, Mwamba D, Geng EH, Herce ME. Mitigating the effects of COVID-19 on HIV treatment and care in Lusaka, Zambia: a before-after cohort study using mixed effects regression. *BMJ Glob Health*. 2022 Jan;7(1) PubMed Central PMCID: PMC8795923.
- d) Pry J, Chipungu J, Smith HJ, Bolton Moore C, Mutale J, Duran-Frigola M, Savory T, Herce ME. Patient-reported reasons for declining same-day antiretroviral therapy initiation in routine HIV care settings in Lusaka, Zambia: results from a mixed-effects regression analysis. *J Int AIDS Soc*. 2020 Jul;23(7):e25560. PubMed Central PMCID: PMC7333172.
- e) Sikazwe I, Musheke M, Chiyenu K, Ngosa B, Pry JM, Chama Mulubwa, Zimba M, Sakala M, Sakala M, Somwe P, Nyirenda G, Savory T, Bolton-Moore C, Herce ME. "Programme science in action: lessons from an observational study of HIV prevention programming for key populations in Lusaka, Zambia". *J Int AIDS Soc*. 2024;27 Suppl 2(Suppl 2):e26237.

2. International collaborative efforts in tuberculosis in Haiti and Zambia: I conducted the analysis of a project in Haiti outlining the decreasing number of effective tuberculosis drugs in Port-au-Prince, Haiti. Additionally, I have worked with experts in Zambia to better understand the epidemiology of tuberculosis, especially among those in HIV care. This experience in an LMIC collaborating with local academic and medical leaders allowed for better understanding of international partnerships and new insight and evidence to direct future research and policy.

- a) Kerkhoff, Andrew D., Mwamba, Chanda, Pry, Jake M., Kagujje, Mary, Nyangu, Sarah, Mateyo, Kondwelani, Sanjase, Nsala, Chilukutu, Lophina, Christopoulos, Katerina A., Muyoyeta, Monde, Sharma, Anjali. A mixed methods study on men's and women's tuberculosis care journeys in Lusaka, Zambia - implications for gender-tailored tuberculosis health promotion and case finding strategies. [Preprint]. 2022 November 18. DOI: 10.1101/2022.11.17.22282462
- b) Walsh K, Souroutzidis A, Vilbrun S, Peebles M, Joissaint G, Delva S, Widmann P, Royal G, Pry J, Bang H, Pape J, Koenig S. Potentially High Number of Ineffective Drugs with the Standard Shorter Course Regimen for Multidrug-Resistant Tuberculosis Treatment in Haiti. *The American Journal of Tropical*

Medicine and Hygiene. 2019 February 06; 100(2):392-398. Available from: <https://ajtmh.org/doi/10.4269/ajtmh.18-0493> DOI: 10.4269/ajtmh.18-0493

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3. Utilizing big data to identify non-communicable diseases in Zambia: Zambia was an early adopter of an electronic HIV medical record. In the past five years I have become very familiar with this dataset and have contributed to myriad projects including reviews of the cervical cancer screening program, evaluation of a differentiated service delivery model, assessment of kidney function among those entering HIV care, and evaluating mental wellness among HIV care workers. In addition to helping translate data to practice options at dissemination meetings, I have helped stateside researchers add meaning and context to the data collected and stored in Zambia.

- a) Simbeza S, Mutale J, Mulabe M, Jere L, Bukankala C, Sikombe K, Sikazwe I, Bolton-Moore C, Mody A, Geng EH, Sharma A, Beres LK, Pry JM. Cross-sectional study to assess depression among healthcare workers in Lusaka, Zambia during the COVID-19 pandemic. *BMJ Open*. 2023 Apr 5;13(4):e069257. PubMed Central PMCID: PMC10083529.
- b) Pry JM, Vinikoor MJ, Bolton Moore C, Roy M, Mody A, Sikazwe I, Sharma A, Chihota B, Duran-Frigola M, Daultrey H, Mutale J, Kerkhoff AD, Geng EH, Pollock BH, Vera JH. Evaluation of kidney function among people living with HIV initiating antiretroviral therapy in Zambia. *PLOS Glob Public Health*. 2022;2(4):e0000124. PubMed Central PMCID: PMC10021838.
- c) Pry JM, Manasyan A, Kapambwe S, Taghavi K, Duran-Frigola M, Mwanahamuntu M, Sikazwe I, Matambo J, Mubita J, Lishimpi K, Malama K, Bolton Moore C. Cervical cancer screening outcomes in Zambia, 2010-19: a cohort study. *Lancet Glob Health*. 2021 Jun;9(6):e832-e840. PubMed PMID: 34019837.
- d) Pry J, Jackson W, Rupasinghe R, Lishanthe G, Badurdeen Z, Abeysekara T, Chandrajith R, Smith W, Wickramasinghe S. A pilot case-control study using a one health approach to evaluate behavioral, environmental, and occupational risk factors for chronic kidney disease of unknown etiology in Sri Lanka. *One Health Outlook*. 2021;3:4. PubMed Central PMCID: PMC8011406.

Complete List of Published Work in My Bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/jake.pry.1/bibliography/public/>