

Anton M. Palma, PhD, MPH

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EDUCATION

- 2019 PhD Epidemiology, **Columbia University**; New York, NY.
Dissertation: Cardiovascular disease risk behaviors in HIV-positive populations: Exploring a stress-coping hypothesis
- 2016 MPhil Epidemiology, **Columbia University**; New York, NY.
- 2011 MPH Community Public Health, **New York University**; New York, NY.
- 2007 BS Psychology, **University of California San Diego**; La Jolla, CA.

RESEARCH

- 2019-Present Principal Biostatistician - University of California Irvine; Irvine, CA
- 2017-2019 Statistician/SAS Programmer - Columbia University, ICAP at Columbia University; New York, NY
- 2014-2017 Pre-doctoral Research Fellow - Columbia University, Mailman School of Public Health; New York, NY
- 2013-2014 Project Manager/Data Analyst - Columbia University, Mailman School of Public Health; New York, NY
- 2011-2013 Research Coordinator - Albert Einstein College of Medicine; Bronx, NY
- 2009-2011 Research Coordinator - NYS Office of Mental Health, Psychopharmacology Research Program; New York, NY
- 2007-2009 Research Assistant - Kaiser Permanente, Departments of Internal Medicine and Psychiatry; San Diego, CA
- 2006-2007 Research Intern - Veterans Affairs Hospital, Adolescent Brain Imaging and Substance Abuse Lab - La Jolla, CA

TEACHING

University of California, Irvine

Platinum resistance in advanced gynecologic malignancies: Response, disease free and overall survival are predicted by biochemical signature: A metabolomic analysis. Invited talk: Co-author – Fall 2020

Columbia University, Mailman School of Public Health

Public Health Data Analysis with R, short course: Instructor – Fall 2014

Systems Thinking in the Health Sciences, short course: Instructor – Spring 2015, Spring 2016

SIR models in R, short course: Instructor – Spring 2016

Epidemiology II: Design and Conduct of Observational Epidemiology: Teaching Assistant – Spring 2015

Epidemiology III: Applied Epidemiologic Analysis: Teaching Assistant – Fall 2016

Epidemiology IV: Advanced Methods in Epidemiology: Teaching Assistant – Spring 2018

Epidemiology of HIV/AIDS: Teaching Assistant – Fall 2014, Fall 2015

Epidemiological Modeling of Infectious Diseases: Teaching Assistant – Spring 2016

Case Study: System Dynamics Model of Serum Prostate-Specific Antigen Screening for Prostate Cancer, Systems Sciences & Population Health: Guest Lecturer – Spring 2015, Summer 2015

*Survey Questionnaire Design Workshop, ICAP Minority Health and Health Disparities International
Research Training T37 Program: Guest Lecturer – Spring 2015, Spring 2016,
Spring 2017*

New York University, College of Nursing

Introduction to Biostatistics: Teaching Assistant – Fall 2012, Spring 2013

GRANT SUPPORT

Ongoing Support

2015-2024 Principal Biostatistician; NCATS UL1 TR001414 (PI: Dan Cooper, MD) University of California Irvine, Institute for Clinical and Translational Science.
2020-2020 Principal Statistician; UC Irvine Beall Applied Innovation POP Grant (PI: Caryn Bradley) *Pedi-Sync: An Integrated Biomedical Platform with Clinical Algorithm for Determining Optimum Feeding Protocols for Preterm Infants.*

Past Support

2014-2017 Pre-doctoral Research Fellow; NIAID 1T32AI114398 (PI: Andrea Howard, MD, MS) ICAP Global HIV Implementation Science Research Training Program.
2013-2014 Project Manager/Data Analyst; CDC 5U48DP001916 (PI: Alwyn Cohall, MD; Subcontract PI: Margaret Kruk, MD, MPH) Option B+ DCE Experiment: Assessing the preferences of HIV-positive women for service delivery packages during and after pregnancy: a discrete choice experiment in Ethiopia and Mozambique.

HONORS AND AWARDS

Conference on Retroviruses and Opportunistic Infections Scholarship Award
2017

AIDS 2016 Scholarship Programme Award
2016

Outstanding Oral Presentation, Swaziland National Emergency Response Council on HIV and AIDS (NERCHA) 2016 Conference
2016

EPIC Fund Award, Department of Epidemiology, Columbia University
2015, 2016, 2017

Student Conference Travel Fund Award, Office of Student Affairs, Columbia University
2014, 2015, 2016, 2017

Columbia University Doctoral Student Merit Award
2014

PROFESSIONAL ACTIVITIES

Peer Reviewer (Journals)

AIDS and Behavior, American Journal of Public Health, BMC Infectious Diseases, PLoS One

Service

2013-2016 Treasurer: *Complex Systems Approaches to Population Health Initiative*, Columbia University Mailman School of Public Health, New York, NY.

SKILLS

<i>Statistics</i>	SAS, Stata, R, SPSS, MPlus
<i>Survey design</i>	Open Data Kit (ODK)
<i>Simulation modeling</i>	Vensim, Stella

PUBLICATIONS

Peer-Reviewed Articles

Under review

1. **Palma AM**, El-Sadr WM, Hoffman S, Norcini Pala A, Tollman S, Barnighausen T, Lamb MR. Cardiovascular disease risk behaviors across the HIV continuum: exploring a stress-coping hypothesis. *AIDS Behav*. Under review.
2. Schubl S, Figueroa C, **Palma AM**, de Assis R, Jain A, Nakajima R, Brabender D, Naaseh A, Hernandez OD, Runge A, Skochko S, Kelsey AJ, Lai KT, Horvath P, Tifrea D, Grigorian A, Gonzales A, Amin AN, Barie P, Stamos M, Felgner P, Khan S. Risk factors for SARS-CoV-2 antibodies in a health care worker population. *Clin Infect Dis*. Under review.
3. Whitley M, **Palma AM**, Ro A. The impact of work on breastfeeding behaviors among mothers in the United States: Do patterns differ for White compared to Black mothers? *PlosONE*. Under review.
4. Mehrabi JN, Holmes J, Abrouk M, **Palma AM**, Wang JV, Zachary CB, Geronemus RG, Waibel JS, Kelly KM. Relation of port-wine birthmark color to vascular characteristics as measured by dynamic optical coherence tomography. *JAAD*. Under review.
5. D'Amora P, Silva IDC, Evans SS, Salzgeber MB, Addis-Bernard PJ, **Palma AM**, Penner KR, Alldredge J, Longoria T, Tewari KS, Cappuccini F, Bristow RE, Nagourney RA. Platinum resistance in advanced gynecologic malignancies: response, disease free and overall survival are predicted by biochemical signature: A metabolomic analysis. *Clinical Cancer Research*. Under review.
6. White KM, Frambach C, Doan J, Mehta UV, Livnat I, Yuh C, **Palma AM**, Wei A, Jameson K, Cristina Kenney M, Mehta MC, Boisvert CJ, Crow WR, Browne AW. Quantitative cone contrast threshold testing in patients with differing pathophysiological mechanisms causing retinal diseases. *Retina*. Under review.

Published or In Press

7. Wei A, Mehta UV, Palczewska G, **Palma AM**, Hussey VM, Hoffmann LE, Diep A, Nguyen K, Le B, S Yone-Shun Chang, Browne AW. Two-photon microperimetry: A media opacity-independent retinal function assay. *Transl Vis Sci Tech*. In press. 2021. doi: 10.1101/2020.06.27.175315
8. Mehta U, Diep A, Nguyen K, Le B, Yuh C, Frambach C, Doan J, Wei A, **Palma AM**, Farid M, Garg S, Kedhar S, Wade M, Jameson K, Kenney MC, Browne AW. Quantifying color vision changes associated with cataracts using cone contrast thresholds. *Transl Vis Sci Tech*. 2020 Nov 3;9(12):11. doi:10.1167/tvst.9.12.11. eCollection 2020 Nov.
9. Rabkin M, **Palma AM**, McNairy M, Gachuhi AB, Simelane S, Nuwagaba-Biribonwoha H, Bongomin P, Okello VJ, Bitchong R, El-Sadr WM. Integrating cardiovascular risk factor screening into HIV services in Swaziland: lessons from an implementation science study. *AIDS*. 2018 Jul 1; 32 Suppl 1:S43-S46. doi: 10.1097/QAD.0000000000001889.

10. **Palma AM**, Rabkin M, Gachuhi AB, Simelane S, McNairy ML, Nuwagaba-Biribonwoha H, Bongomin P, Okello V, Bitchong R, El-Sadr WM. A time-motion study of cardiovascular disease risk factor screening integrated into HIV clinic visits in Swaziland. *J Int AIDS Soc.* 2018 Mar; 21:e25099. doi:10.1002/jia2.25099. (PMCID: PMC5867276).
11. Jimoh O, Gachuhi AB, Simelane S, Rabkin M, Nuwagaba-Biribonwoha H, Bongomin P, **Palma AM**, McNairy M, Franks J, Bitchong R, Okello V, El-Sadr WM. Uncontrolled hypertension amongst people living with HIV on antiretroviral therapy at an urban HIV clinic in Swaziland. *Annals of Global Health.* 2017 Jan; 83(1):67.
12. **Palma AM**, Rabkin M, Nuwagaba-Biribonwoha H, Bongomin P, Lukhele N, Dlamini X, Kidane A, El-Sadr WM. Can the success of HIV scale-up advance the global chronic non-communicable disease agenda? *Global Heart.* 2016 Dec;11(4):403-408. doi:10.1016/j.gheart.2016.10.012. (PMCID: PMC5157698)
13. Mehta-Lee S, **Palma A**, Bernstein P, Lounsbury D, Schlecht NF. A preconception nomogram to predict preterm delivery. *Matern Child Health J.* 2016 Jul; doi:10.1007/s10995-016-2100-3.
14. Batchelder A, Lounsbury DW, **Palma A**, Carrico A, Pachankis J, Schoenbaum EE, Gonzalez J. Importance of substance use in psychosocial syndemic among women with and at-risk for HIV. *AIDS Care.* 2016 Apr 25;1-5. doi: 10.1080/09540121.2016.1173637. (PMCID: PMC5025025)
15. Kruk ME, Riley PL, **Palma AM**, Adhikari S, Ahoua L, Arnaldo C, Belo DF, Brusamento S, Cumba LIG, Dziuban EJ, El-Sadr WM, Gutema Y, Habtamu Z, Heller T, Kidanu A, Langa J, Mahagaja E, McCarthy CF, Melaku Z, Shodell D, Tsiouris F, Young PR, Rabkin M. How can the health system retain women in HIV treatment for a lifetime? Results from a discrete choice experiment in Ethiopia and Mozambique. *PLoS ONE.* 2016 Jan;11(8):e0160764. doi:10.1371/journal.pone.0160764. (PMCID: PMC4994936)
16. **Palma A**, Lounsbury DW, Schlecht NF, Agalliu I. A system dynamics model of serum prostate-specific antigen screening for prostate cancer. *Amer J Epid.* 2016 Feb;183(3):227-236. doi:10.1093/aje/kwv262. (PMCID: PMC4724096)
17. Batchelder A, Lounsbury DW, **Palma A**, Schoenbaum EE, Gonzalez J. A social ecological model of syndemic risk affecting women with and at-risk for HIV in impoverished urban communities. *Am J Comm Psych.* 2015 Dec;56(3-4):229-40. doi: 10.1007/s10464-015-9750-y.
18. El-Sayed AM, **Palma A**, Freedman LP, Kruk ME. Does health insurance mitigate inequities in non-communicable disease treatment? Evidence from 49 low- and middle-income countries. *Health Policy.* 2015 Sep;119(9):1164-75. doi:10.1016/j.healthpol.2015.07.006.
19. Lounsbury DW, Schwartz B, **Palma A**, Blank A. Simulating patterns of patient engagement, treatment adherence, and viral suppression: a system dynamics approach to evaluating HIV care management. *AIDS Patient Care STDS.* 2015 Jan;29 Suppl 1:S55-63. PMCID: PMC4283062. doi:10.1089/apc.2014.0276.
20. **Palma A**, Lounsbury DW, Messer L, Quinlivan EB. Patterns of HIV service use and HIV viral suppression among patients treated in an academic infectious diseases clinic in North Carolina. *AIDS Behav.* 2015 Apr;19(4):694-703. doi:10.1007/s10461-014-0907-8. PMCID: PMC4687891.
21. **Action to Control Cardiovascular Risk in Diabetes Memory in Diabetes Investigators.** Cognitive function and brain structure in persons with type 2 diabetes mellitus after intensive lowering of blood pressure and lipid levels. *JAMA Intern Med.* 2014 Mar;174(3):324-333. PMCID: PMC3333485.
22. Murphy M, Lee-Smith L, **Palma A**, Lounsbury D, Bijur P, Chambers P, Gallagher E. Feasibility of a computer-delivered alcohol and driver safety behavior screening and intervention program initiated during an emergency department visit. *Traffic Inj Prev.* 2013;14(1):39-45. doi:10.1080/15389588.2012.690545.
23. **Action to Control Cardiovascular Risk in Diabetes Study Group.** Effects of Intensive Glucose Lowering in Type 2 Diabetes. *N Engl J Med.* 2008 Jun;358(24):2545-59. PMCID: PMC4551392.

Book Chapters

Published

1. **Palma AM**, Lounsbury DW. *Complexity: The evolution towards 21st century science*. In Systems Science and Population Health. eds. El-Sayed AM, Galea S. New York: Oxford University Press, 2017.

Other Publications

1. **PHIA Project**. Population-based HIV Impact Assessment (PHIA) Data Use Manual. New York, NY. December 2018.

PRESENTATIONS

1. Wang JV, Mehrabi JN, Abrouk M, Pomerantz H, Palma AM, Zachary CB, Waibel JS, Kelly KM, Geronemus RG. *Analysis of port-wine stain vascular characteristics by location: Utility of optical coherence tomography mapping*. American Society for Laser Medicine and Surgery. [Poster presentation] Virtual. April, 2021.
2. Mehrabi J, Holmes J, Abrouk M, Wang J, Pomerantz H, **Palma AM**, Zachary C, Geronemus R, Waibel J, Kelly K. *Vascular characteristics of port wine birthmarks as measured by dynamic optical coherence tomography*. American Society for Laser Medicine and Surgery 2021. [Oral presentation] Virtual. April, 2021.
3. Sithole L, **Palma AM**, Payne D, Kim E, West C, Nzima M, Bellow G. *Examining the socioeconomic gradient in viral suppression in Malawi*. 22nd International AIDS Conference 2018. [Poster presentation] Amsterdam, Netherlands. July 2018.
4. Bray R, **Palma AM**, Thompson JS, Levin B. *Is interview length associated with propensity to consent to blood draw? Evidence from the Zambia and Swaziland Population-based HIV Impact Assessment (PHIA) surveys*. International Total Survey Error Workshop 2018. [Oral presentation] Raleigh, NC. June 2018.
5. Rabkin M, **Palma AM**, McNairy ML, Simelane S, Gachuhi AB, Bitchong R, Nuwagaba-Biribonwoha H, Bongomin P, Okello V, El-Sadr WM. *Integrated vs. referred management of CVD risk factors for HIV+ patients in Swaziland*. Conference on Retroviruses and Opportunistic Infections 2018. [Poster presentation] Boston, MA. March 2018.
6. Rabkin M, **Palma AM**, McNairy ML, Simelane S, Gachuhi AB, Maina N, Bitchong R, Nuwagaba-Biribonwoha H, Bongomin P, Okello V, El-Sadr WM. *Prevalence of cardiovascular disease risk factors amongst people living with HIV at an urban HIV clinic in Swaziland*. 2017 Annual Consortium of Universities for Global Health Conference. [Oral presentation] Washington, DC. April 2017.
7. Rabkin M, **Palma AM**, McNairy ML, Simelane S, Gachuhi AB, Maina N, Bitchong R, Nuwagaba-Biribonwoha H, Bongomin P, Okello V, El-Sadr WM. *Integrating cardiovascular disease risk factor screening in HIV services in Swaziland*. Conference on Retroviruses and Opportunistic Infections 2017. [Poster presentation and themed discussion] Seattle, WA. February 2017.
8. Rabkin M, **Palma AM**, Simelane S, McNairy ML, Gachuhi AB, Bitchong R, Nuwagaba-Biribonwoha H, Bongomin P, Okello V, El-Sadr WM. *Point-of-care versus laboratory-based screening for diabetes and hypercholesterolemia amongst people living with HIV: findings from a comparative study in Swaziland*. 3rd Biennial International Conference of the African Society for Laboratory Medicine 2016. [Oral presentation] Cape Town, South Africa. December 2016.
9. **Palma AM**, Rabkin M, Gachuhi AB, Simelane S, McNairy ML, Nuwagaba-Biribonwoha H, Bongomin P, Okello VN, Bitchong RA, El-Sadr WM. *Integration of cardiovascular disease risk factor screening into HIV care: A time-motion study in a large urban HIV clinic in Swaziland*. 21st International AIDS Conference 2016. [Poster presentation] Durban, South Africa. July 2016.

10. **Palma AM**, Rabkin M, Gachuhi AB, Simelane S, McNairy ML, Nuwagaba-Biribonwoha H, Bongomin P, Okello VN, Bitchong RA, El-Sadr WM. *Integration of cardiovascular disease risk factor screening into HIV care: A time-motion study in a large urban HIV clinic in Swaziland*. Swaziland HIV/AIDS Conference - From AIDS Crisis to Opportunities: What the world can learn from Swaziland [Oral presentation] Manzini, Swaziland. July 2016.
11. **Palma AM**, Rabkin M. *Understanding the hypertension management continuum in sub-Saharan Africa using a cascade approach: a systematic review*. 2016 Epidemiology Congress of the Americas. [Poster presentation] Miami, FL. June 2016.
12. Brusamento S, **Palma A**, Tsiouris F, Ahoua L, Rabkin M, Kruk ME. *Patient Preferences for Antiretroviral Treatment During Pregnancy Under Option B+ in Zambezia, Mozambique*. 8th IAS Conference on HIV Pathogenesis Treatment and Prevention. [Poster presentation] Vancouver, Canada. July 2015.
13. **Palma A**, Lounsbury D, Schlecht NF, Agalliu I. *Applying System Dynamics Modeling to Epidemiological Research: An Example of PSA Screening*. 2nd Annual New York City Epidemiology Forum. [Oral presentation] New York, NY. February 2015.
14. **Palma A**, Lounsbury D, Messer LC, Quinlivan EB. *Patterns of HIV Service Use and HIV Viral Suppression among Patients Treated in an Academic Infectious Diseases Clinic in North Carolina*. 9th International Conference on HIV Treatment and Prevention Adherence. [Oral presentation] Miami, FL. June 2014.
15. Sotardi S, Van Arsdale A, Einstein M, **Palma A**, Schlecht NF, Ho G, Lounsbury D. *Application of System Dynamics to Inform a Model of Human Papillomavirus Vaccination Efficacy*. EUROGIN Human Papillomavirus Conference. [Poster presentation] Florence, Italy. November 2013.
16. Batchelder AW, Lounsbury D, **Palma A**, Schoenbaum E, Gonzalez J. *Using System Dynamics to Apply Syndemic Theory to Women With and At-Risk for HIV*. 31st International Conference of the System Dynamics Society. [Oral presentation] Boston, MA. July 2013.
17. Lounsbury D, **Palma A**. *Using System Dynamics Modeling as a Tool for Program Planning and Evaluation*. Society for Community Action and Research Biennial Conference. [Oral presentation] Miami, FL. June 2013.
18. Lounsbury D, **Palma A**, Blank A. *A System Dynamics Evaluation of HIV/AIDS Care for Women of Color*. AcademyHealth Research Meeting. [Poster presentation] Baltimore, MD. June 2013.
19. **Palma A**, Lounsbury D, Schlecht NF, Agalliu I. *Applying System Dynamics Modeling to Epidemiological Research: An Example of PSA Screening*. 46th Annual Society for Epidemiologic Research Meeting. [Poster presentation] Boston, MA. June 2013.
20. Birnbaum JM, Lounsbury DW, Eastwood B, **Palma A**, Jo G. *Use of System Dynamics Modeling As a Tool for Evaluation of Intervention Planning for HIV+ Adolescents and their Retention in Care in an Urban Adolescent HIV Clinic*. Annual Meeting of the Society for Adolescent Health and Medicine. [Poster presentation] Atlanta, GA. March 2013.
21. Mehta-Lee S, **Palma A**, Bernstein P, Lounsbury D, Schlecht NF. *A Preconception Nomogram to Predict Preterm Birth*. Society for Maternal-Fetal Medicine 33rd Annual Meeting. [Poster presentation] San Francisco, CA. February 2013.
22. Batchelder AW, Lounsbury D, **Palma A**, Gonzalez J, Schoenbaum E. *Using System Dynamics Modeling to Simulate the Syndemic Affecting Women With and At-risk for HIV/AIDS in the Bronx*. Summit on the Science of Eliminating Health Disparities. [Poster presentation] National Harbor, MD. December 2012.
23. Lounsbury D, **Palma A**, Birnbaum J, Messer L, Blank A, Quinlivan EB, Eastwood B. *Using System Dynamics Modeling as a Tool for Program Planning and Evaluation*. HRSA Ryan White Grantee Meeting. [Poster presentation] Washington, DC. November 2012.
24. Lounsbury D, **Palma A**, Jo G, Blank A. *Using System Dynamics Modeling as a Tool to Evaluate Engagement and Retention in HIV Primary Care Programs*. 9th Annual NYC Research and

Improvement Networking Group Convocation of Practices. [Poster presentation] Bronx, NY.
September 2012.