

BIOGRAPHICAL SKETCH

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NAME: Matthew Lamb

eRA COMMONS USER NAME (credential, e.g., agency login): LAMBMR

POSITION TITLE: Assistant Professor of Epidemiology

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
Northwestern University	B.S.	1998	Environmental Engineering
Stanford University	M.S.	1999	Environmental Engineering
Columbia University, Mailman School of Public Health	MPH	2004	Epidemiology
Columbia University, Graduate School of Arts and Science	PhD	2011	Epidemiology

A. Personal Statement

Dr. Matthew Lamb is an expert with over 11 years of experience focusing on epidemiologic study design, advanced approaches for efficient collection of electronic routinely-collected and survey data collection in sub-Saharan Africa as well as statistical methods for longitudinal data analysis and survey sampling design and analysis. He has previously lead the Informatics Center at ICAP-Columbia University, which manages data collection, warehousing, storage, and statistical analysis across ICAP's service delivery and evaluation portfolio, and he has extensive experience in developing mobile-based tools for survey and questionnaire data collection and evaluation. His research focuses on identifying barriers and enablers to prompt identification of HIV positive individuals, engagement in HIV care, retention after care engagement, and optimal patient outcomes after ART initiation. Dr. Lamb holds a faculty appointment in the Department of Epidemiology at the Mailman School of Public Health, where he teaches Master's-level classes in epidemiology and biostatistics, the integration of science and public health practice and statistical analysis using SAS. He also teaches the terminal methodologic course for PhD Epidemiology students: Advanced Techniques in Epidemiologic Methods.

B. Positions and Honors**Academic Appointments**

2011- 2017	Associate Research Scientist, Mailman School of Public Health, Columbia University
2012	Adjunct Professor of Epidemiology, School of Public Health, City University of New York
2013-2017	Instructor of Epidemiology, Department of Epidemiology, Mailman School of Public Health, Columbia University
2017-Present	Assistant Professor of Epidemiology, Mailman School of Public Health, Columbia University

Teaching Experience and Responsibilities**Courses Developed**

2004-2007	Creator of mid-term and final exam, co-developer of online homework assignments, Principles of Epidemiology I, Mailman School of Public Health, Columbia University
2012	Epidemiology Methods I: Research Design and Inference, CUNY School of Public Health
2011-Present	Quantitative Foundations in Public Health, Mailman School of Public Health, Columbia University

- 2018-Present Application of Epidemiologic Research Methods, Department of Epidemiology, Mailman School of Public Health, Columbia University
- 2018-Present Advanced Techniques in Epidemiologic Methods, Department of Epidemiology, Mailman School of Public Health, Columbia University

Courses Taught

- 2004 Computer laboratory seminar leader, Principles of Epidemiology III: Applied Epidemiologic Analysis, Mailman School of Public Health, Columbia University
- 2004-2007 Seminar Leader, Principles of Epidemiology I, Mailman School of Public Health, Columbia University
- 2005 Computer laboratory seminar leader, Principles of Epidemiology II: Design and Conduct of Observational Epidemiology, Mailman School of Public Health, Columbia University
- 2006 Teaching Assistant, Infectious Disease Modeling, Mailman School of Public Health, Columbia University
- 2007 Teaching Assistant, Epidemiology of HIV/AIDS, Mailman School of Public Health, Columbia University
- 2008 Workshops for Epidemiology (small group class to undergraduate students); Sophie Davis School of Biomedical Education, City College of New York
- 2012 Instructor, Epidemiology Methods I: Research Design and Inference, CUNY School of Public Health
- 2013-Present Instructor, Quantitative Foundations in Public Health, Mailman School of Public Health, Columbia University
- 2017-Present Instructor, Integration of Science and Public Health Practice, Mailman School of Public Health, Columbia University
- 2018-Present Instructor, Application of Epidemiologic Research Methods, Mailman School of Public Health, Columbia University
- 2018-Present Instructor, Advanced Techniques in Epidemiologic Methods, Mailman School of Public Health, Columbia University

Preceptor/Lecturer

- 2012-Present Guest Lecturer on Infectious Disease Modeling, Infectious Disease Epidemiology, Mailman School of Public Health, Columbia University
- 2013-2014 Guest Lecturer on Longitudinal Data Analysis, Master's Thesis II, Mailman School of Public Health, Columbia University
- 2016 Guest Lecturer on Health Management Information Systems, Epidemiologic Research in Developing Countries: From Research to Practice

Other Activities

Ad Hoc Reviewer

- 2012-present PLOS One
- 2012-present Lancet Infectious Diseases
- 2012-present AIDS
- 2012-present JAIDS
- 2013-present Journal of Epidemiology and Global health

C. Contribution to Science

Lindsey Reif, Margaret McNairy, **Matthew R Lamb**, Ruby Fayorsey, Batya Elul. Youth-friendly services and differentiated models of care are needed to improve outcomes for young people living with HIV. *Current Opinion in HIV and AIDS* 13(3):249-256. May 2018

Batya Elul, **Matthew R Lamb**, Maria Lahuerta, Fatima Abacassamo, Laurence Ahoua, Stephanie Kukawski, Ilesh Jani. A combination intervention strategy to improve linkage to and retention in HIV care following diagnosis in Mozambique: a cluster-randomized study. *PLoS Medicine* 2017 Nov 14; 14(11).

Margaret McNairy, **Matthew R Lamb**, Averie Gachuhi, Harriet Nuwagaba-Biribonwoha, Sean Burke, Sikhathele Mazibuko, Velephi Okello, Peter Ehrenkranz, Ruben Sahabo, Wafaa El-Sadr. Effectiveness of a combination strategy for linkage and retention in adult HIV care in Swaziland: the Link4Health cluster randomized trial. *PLoS Medicine* 2017 Nov 7.

Stephanie Kujawski, **Matthew R Lamb**, Maria Lahuerta, Margaret McNairy, Laurence Ahoua, Fatima Abacassamo, Harriet Nuwagaba-Biribonwoha, Averie Gachuhi, Wafaa El-Sadr, Batya Elul. Advanced Human Immunodeficiency Virus disease at diagnosis in Mozambique and Swaziland. *Open Forum Infectious Disease* 2017 July 23;4(3).

Zenebe Melaku, Sileshi Lulseged, Chunhui Wang, **Matthew R Lamb**, Yoseph Gutema, Chloe Teasdale, Solomon Ahmed, Tsigereda Gadisa, Zelalem Habtamu, Abubaker Bedri, Ruby Fayorssey, Elaine Abrams. Outcomes among HIV-infected children initiating HIV care and antiretroviral treatment in Ethiopia. *Tropical Medicine and International Health* April 2017 Volume 22 No 4, p 474-484.

Stephanie Kujawski, Maria Lahuerta, **Matthew R Lamb**, Laurence Ahoua, Fatima Abacassamo, Batya Elul. Informing efforts to reach UNAIDS' 90-90-90 targets: a comparison of characteristics of people diagnosed with HIV in health facilities to the general population of people living with HIV in Mozambique. *AIDS CARE* August 2017; 29(8). 1062-1066.

Roberta Sutton, Maria Lahuerta, Fatima Abacassamo, Laurence Ahoua, Maria Tomo, **Matthew R Lamb**, Batya Elul. Feasibility and acceptability of health communication interventions with a combination intervention strategy for improving linkage and retention in HIV care in Mozambique. *JAIDS* January 2017; 74 Suppl 1: S29-S36.

Mansi Agarwal, **Matthew R Lamb**, Andrea Howard, Elaine Abrams, Wafaa El-Sadr, Batya Elul. Sex differences in mortality and loss among 21,461 older adults on antiretroviral therapy in sub-Saharan Africa. *JAIDS* October 2016; 73(2);e33-5.

Lindsey Reif, Rachel Bertrand, Charles Benedict, **Matthew R Lamb**, Vanessa Rouzier, Rose Verdier, Warren Johnson, Jean Pape, Daniel Fitzgerald, Louise Kuhn, Margaret McNairy. Impact of a youth-friendly clinic: 10 years of adolescent outcomes in Port-au-Prince, Haiti. *JIAS* July 2016, 19(1):20859.

Margaret L McNairy, **Matthew R Lamb**, Elaine J Abrams, Batya Elul, Ruben Sahabo, Mark P Hawken, Antonio Mussa, Jessica Justman, and Wafaa M. El-Sadr for the Identifying Optimal Models of HIV Care and Treatment in Sub-Saharan Africa Study. Use of a Comprehensive HIV Care Cascade for Evaluating HIV Program Performance: Findings from Four Sub-Saharan African Countries. *JAIDS* 2015 Volume 70(2) ; e44-e51.

Zenebe Melaku, **Matthew R Lamb**[#] Chunhui Wang, Sileshi Lulseged, Tsigereda Gadisa, Solomon Ahmed, Zelalem Habtamu, Hailubeza Alemu, Tamrat Assefa, Elaine J Abrams. Characteristics and outcomes of adult Ethiopian patients enrolled in HIV care and treatment: a multi-clinic observational study. *BMC Public Health*. 2015 May 3;15:462

Matthew R Lamb, Ruby Fayorssey, Harriet Nuwagaba-Biribonwoha, Violante Viola, Vincent Mutabazi, Teresa Alwar, Catarina Casalini, Batya Elul. High attrition before and after ART initiation among youth (15-24 years of age) enrolled in HIV care. *AIDS* 2014 Feb 20; 28(4):559-568.

Matthew R Lamb, Wafaa El Sadr, Elvin Geng, Denis Nash. Association of Adherence Support and Outreach Services with Total Attrition, Loss to Follow-Up, and Death among ART Patients in Sub-Saharan Africa. *PLoS One* 2012; 7(6):e38443.

D. Additional Information: Research Support

Ongoing Research Support

CDC U01GH002115-01

Howard (PI)

09/30/16 - 09/29/18

Provide Miner-Friendly Services for Integrated TB/HIV Care (PROMISE) Study

The purpose of this study is to identify an effective, feasible and acceptable TB/HIV service delivery model for migrant miners and their families that addresses barriers to implementation of early ART and IPT; the results will improve health outcomes among migrant miners and their families, a hard-to-reach population that represents a hotspot of TB/HIV transmission, in Lesotho and in PEPFAR programs more broadly, and strengthen the implementation science research capacity of national and local institutions.

Role:Co-Investigator

HRSA UJ7HA31180

Rabkin (PI)

9/30 2017 – 9/29/2022

Optimizing Momentum Toward Sustainable Epidemic Control

The purpose of this project is to support the integration and transition of HIV testing, care, and prevention interventions currently or previously supported by PEPFAR into host country health systems.

Role:Co-Investigator

Completed Research Support

1R01AI100059-03

El-Sadr, PI

06/15/2012-05/31/2017

NIH/NIAID

LINK4HEALTH: A Combination Strategy for Linkage and Retention, Swaziland

This implementation science study is a cluster site randomized trial which aims to evaluate a combination of evidence-based interventions versus standard of care on linkage and retention of HIV-positive patients in PEPFAR-supported HIV care sites in Swaziland. The results of the proposed research will advance the field of HIV care, treatment, and prevention by quantitatively demonstrating whether a combination intervention strategy is cost-effective in improving linkage and retention and decreasing HIV disease progression and infections averted, thus enhancing program impact.

Role: Co-Investigator

AID-OAA-A-12-00027

Elul, PI

07/01/2012 – 02/28/2017

USAID

ENGAGE4HEALTH

A PEPFAR Implementation Science award for a two-arm cluster site-randomized trial to compare the effectiveness of a combination intervention strategy, consisting of innovative, feasible, program-level interventions, on both linkage and retention to HIV care among newly diagnosed PLWH in Mozambique.

Role: Co-Investigator

U92HA12772

Michaels-Strasser, PI

04/01/2012–03/31/2017

HRSA

Global Nurse Capacity Building Program

The project proposes to expand and enhance the ongoing interventions of the ICAP Nurse Capacity Building Initiative (INCI) in 13 countries, aimed at strengthening nursing and midwifery education systems, enhancing nursing and midwifery as professions, and increasing the number of trained nurses and midwives.

Role: Epidemiologist

U2GGH000994

Justman, PI

08/01/2015 – 03/31/2016

CDC Global TA: Rwandan Pediatric ART Evaluation: 12 month outcomes of HIV-infected children between 18 months and 5 years of age.

Role: Co-Investigator, Data Analysis and Management