

## Joseph R. Egger

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### PROFESSIONAL EXPERIENCE

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2016-	Assistant Professor of the Practice of Global Health, Duke Global Health Institute, Duke University
2015-	Associate Director for Education, Research Design & Analysis Core, Duke Global Health Institute, Duke University
2013-2016	Research Scholar, Duke Global Health Institute, Duke University
2012-2013	Lead Epidemiologist, SciMetrika, LLC
2011-2012	Senior Epidemiologist, SciMetrika, LLC
2008-2011	Senior Research Scientist, Division of Epidemiology, NYC Department of Health & Mental Hygiene
2006-2008	Health Research Consultant, New York Obesity Research Center, Columbia University
2005-2006	Analyst, Department of Public Health and Clinical Excellence, London Health Authority
2001-2004	Research Assistant, Division of General Internal Medicine, University of Washington

FIELDS OF INTEREST: Epidemiologic methods, hierarchical modeling, infectious disease transmission, measurement/bias, impact evaluation.

### EDUCATION

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2009	PhD	Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine Thesis title: <i>Improving Surveillance for Dengue Fever in Asia and the Americas</i> Advisor: <i>Robert Aunger</i> ; Co-supervisors: <i>Clive Davies, Paul Coleman</i>
2004	MA	Medical Geography, University of Washington
1999	BS	Biology, College of Charleston

### TEACHING

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*Courses at Duke University*

2018-	GLHLTH 362 Introduction to Epidemiology
2017-	GLHLTH 710 Intermediate Global Health Epidemiology
2013-	GLHLTH 707L [Lab] Biostatistics and Epidemiology for Global Health Science II
2014-2016	GLHLTH 791(Independent Study) Epidemiology: Theory and Practice
2015	GLHLTH 395.01/795.07 Bass Connections - Evaluation of Scaling Innovative Healthcare Delivery in East Africa

STUDENTS ADVISED

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*Master's Thesis Committee Chair*

- 2019- 2021 Rosarito Clari Yaluff, MSc-GH, Duke Global Health Institute  
2017- 2019 Min Kyung Kim, MSc-GH, Duke Global Health Institute. Thesis title: *"Validity of a Medical Record in Measuring the Quality of Obstetric Services in Rural Clinics in Greater Masaka District, Uganda"*  
2016-2018 Yixuan Li, MSc-GH, Duke Global Health Institute. Thesis title: *"An Outcome Evaluation of LifeNet Partograph Training in Masaka, Uganda"*

*Master's Thesis Committee Membership*

- 2019 – 2021 Natalie Vance, MSc-GH, Duke Global Health Institute  
2019 – 2021 Grace Lowitzer, MSc-GH, Duke Global Health Institute  
2019 – 2021 Alvan Ukachukwu, MSc-GH, Duke Global Health Institute  
2019 – 2021 Waseem Akhter, MSc-GH, Duke Global Health Institute  
2018 – 2020 Laura Mkumba, MSc-GH, Duke Global Health Institute  
2018 – 2020 John Bollinger, MSc-GH, Duke Global Health Institute  
2018 – 2020 Chris Hayes, MSc-GH, Duke Global Health Institute  
2018 – 2020 Jacob Stocks, MSc-GH, Duke Global Health Institute  
2018 – 2020 John Bonnewell, MSc-GH, Duke Global Health Institute, Hubert Yeargan  
2017 - 2019 Kristie Kusibab, Biostatistics & Bioinformatics, Duke University  
2017 - 2019 Ruoyu Hu, MSc-GH, Duke Global Health Institute  
2017 - 2019 Xiaoxu Deng, MSc-GH, Duke Global Health Institute  
2017 - 2019 Yolande Pokam Tchuisseu, MSc-GH, Duke Global Health Institute  
2016 - 2018 Allia Vaez, MSc-GH, Duke Global Health Institute  
2016 - 2018 Naomie Kadima, MSc-GH, Duke Global Health Institute  
2016 - 2018 Payal Chakraborty, MSc-GH, Duke Global Health Institute  
2016 - 2018 Danni Zhao, MSc-GH, Duke Global Health Institute  
2016 - 2018 Crissi Rainer, MSc-GH, Duke Global Health Institute  
2016 - 2018 Titus N'geno, MSc-GH, Duke Global Health Institute  
2015-2017 Loise Ng'ang'a, MSc-GH, Duke Global Health Institute  
2015-2017 Yujung Choi, MSc-GH, Duke Global Health Institute  
2015-2017 Daphne Wang, MSc-GH, Duke Global Health Institute  
2015-2017 Phoebe Huo, MSc-GH, Duke Global Health Institute  
2014-2016 Ben Kuo, MSc-GH, Duke Global Health Institute  
2014-2016 Nanjala Wafula, MSc-GH, Duke Global Health Institute  
2014-2016 Natalie Skeiky, MSc-GH, Duke Global Health Institute  
2014-2016 Starling Shan, MSc-GH, Duke Global Health Institute  
2013-2015 Eeshan Khandekar, MSc-GH, Duke Global Health Institute  
2013-2015 Laura Lewandowski, MSc-GH, Duke Global Health Institute  
2013-2015 Tu Tran, MSc-GH, Duke Global Health Institute  
2013-2015 John Stanifer, MSc-GH, Duke Global Health Institute

*Doctoral Thesis Committee Membership*

- 2017- Justin Lana, Nicholas School of the environment, Duke University, *The epidemiology of American cutaneous leishmaniasis in Peru.*
- 2012-2015 Emily D'Agostino, CUNY School of Public Health, *The effects of health-related fitness on school attendance in New York City 6<sup>th</sup>-8<sup>th</sup> grade youth.*

*Additional advising and mentorship*

DGHI MSc-GH thesis support (approximately 189 students, 2013-2020), Natalie Yu (B.S. 2019), Sehj Kashyap (Duke Medical School, 2016-2017), Elisa Maffioli (PhD, Department of Economics, Duke University, 2016-2017), Hussain Lalani (Duke Medical School, 2015-2017), Doris Duke Scholars (6 scholars, 2014-2015), Lorena Garcia (B.S., 2016), Kelsey Sumner (B.S., 2016), Madeline Cetlin (B.S., 2016), Jose Sandoval Jr. (B.S., 2016), Hanan Awel (B.S., 2016),

COMMITTEES & PANELS

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Member, Education Committee, Society for Epidemiologic Research (2017-present)  
 Continuing Scholar, Consortium of Universities for Global Health (CUGH) Subcommittee on Master's and Undergraduate Degrees in Global Health (2016-present)  
 Member, advisory committee, DGHI Evidence Lab (2014-present)  
 Chair, Social Entrepreneurship Accelerator at Duke (SEAD) research committee (2013-2017)  
 Advisory board member, SECURED (NCSSM Student vector-borne disease NGO)

PROFESSIONAL AFFILIATIONS

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- 2013- Institutional member, Consortium of Universities for Global Health  
 2019 Invited delegate, Skoll World Forum, Oxford, UK  
 2010- Member, Society for Epidemiologic Research  
 2010- Member, American Public Health Association  
 2015-2018 Research Fellow, Innovation & Entrepreneurship Initiative, Duke University

REFEREE/REVIEWER

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- 2019- Reviewer, *Stars in Global Health*, Grand Challenges Canada  
 2015- Reviewer, Duke Bass Connections Applications, Duke University  
 2013- Member, MSc-GH admission review committee, DGHI

*Peer-review activities (ad hoc)*

Health Services Research, Emerging Infectious Diseases, PLoS One, Bulletin of the World Health Organization, Health Policy and Planning, BMC Public Health, Journal of Communication in Healthcare: Strategies, Media and Engagement in Global Health, International Society for Disease Surveillance (Annual Meeting, 2013))

PUBLICATIONS

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***Under Peer-Review (3)***

Hightow-Weidman L, Muessig K, **Egger JR**, Vecchio A, Platt A. Epic Allies: A Gamified Mobile App to Improve Engagement in HIV Care and Antiretroviral Adherence among Young Men who have Sex with Men. *Submitted*, June, 2019

Kim MK, Baumgartner JN, Headley J, Kirya J, Kaggwa J, **Egger JR**. Using medical records to measure the quality of obstetric and newborn care and to estimate the effects of clinical interventions: A validation study in greater Masaka district, Uganda. *Submitted*, December 2019

Baumgartner JN, Headley J, Kirya J, Guenther J, Kaggwa J, Kim MK, Aldridge L, Weiland S, **Egger JR**. Impact evaluation of a quality of care training intervention at private facilities for maternal and neonatal health in rural Uganda. *Submitted* April, 2020.

### **Published (38)**

NCBI publications:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/joseph.egger.1/bibliography/48172636/public/?sort=date&direction=descending>

Gallis JA, Kusibab K, **Egger JR**, Olsen MK, Askew S, Steinberg DM, Bennett GG. Can Electronic Health Records Validly Estimate the Effects of Health System Interventions Aimed at Controlling Body Weight? *Obesity*, 2020 Sep 27. DOI: 10.1002/oby.22958.

Olson AC, Afyusisye F, **Egger J**, Noyd D, Likonda B, Masalu N, Suneja G, Chao N, Zullig L, Schroeder K. Cancer incidence and treatment utilization patterns at a regional cancer center in Tanzania from 2008-2016: Initial report of 2,772 cases. *Cancer Epidemiology*. 2020 Aug; 67:101772

Hightow-Weidman L, Muessig KE, **Egger JR**, LeGrand S, Platt, A. Predictors of Condomless Anal Intercourse in Young HIV Positive Men Who Have Sex with Men with Detectable Viral Loads. *Journal of Adolescent Health*, 2020 Jun;66(6):672-683.

**Egger JR**, Headley J, Li Y, Kim MK, Kirya J, Aldridge L, Weiland S, Baumgartner JN. Beneath the Surface: A Comparison of Methods for Assessment of Quality of Care for Maternal and Neonatal Health Care in Rural Uganda. *Maternal and Child Health Journal*, 2020 January.

Simmons R, **Egger JR**. A CACE for assessing non-compliance: Addressing non-compliance in randomised controlled trials. *The British Journal of Gynecology*, 2019 December.

Berger MB, Steinberg DM, Askew S, Gallis JA, Treadway CC, **Egger JR**, Kay MC, Batch BC, Finkelstein EA, DeVries A, Brewer A, Bennett GG. The Balance protocol: a pragmatic weight gain prevention randomized controlled trial for medically vulnerable patients within primary care. *BMC Public Health*. 2019 May 17;19(1):

Khandekar E, Kramer R, Ali AS, Al-mafazy A, **Egger JR**, LeGrand S, Mkali HR, McKay M, Ngondi JM. Response Time in Zanzibar's Malaria Elimination Case-based Surveillance System. *AJTMH*, 2019 February; 100(2).

Hightow-Weidman L, LeGrand S, Muessig KE, Simmons R, Choi SK, **Egger J**. A randomized trial of an online risk reduction intervention for young black MSM. *AIDS and Behavior*. September, 2018.

Lalani, HS, Waweru-Siika W, Mwogi, T, Kituyi P, **Egger JR**, Park LP, Kussin PS. Intensive Care Outcomes and Mortality Prediction at a National Referral Hospital in Western Kenya. *Ann Am Thorac Soc*. 2018 August.

LeGrand S, Muessig KE, Platt A, Soni K, **Egger JR**, Nwoko N, McNulty T, Hightow-Weidman LB. Epic Allies, a Gamified Mobile Phone App to Improve Engagement in Care, Antiretroviral Uptake, and Adherence Among Young Men Who Have Sex With Men and Young Transgender Women Who Have Sex With Men: Protocol for a Randomized Controlled Trial. *JMIR Research Protocol*. 2018 April; 7(4).

Paul DW, Lagat DK, MacIntyre N, **Egger JR**, Murdoch DM, Que LG, Kussin PS. Validation of spirometry prediction equations in western Kenya. *Int J Tuberc Lung Dis*. 2018 Jan 1;22(1).

Hightow-Weidman L, LeGrand S, Choi SK, **Egger J**, Hurt CB, Muessig KE. Exploring the HIV continuum of care among young black MSM. *PLoS One*. 2017 June; 12(6).

**Egger JR**, Stankevitz, K, Korom R, Angwenyi P, Sullivan B, Wang J, Hatfield S, Smith E, Popli K, Gross J. Evaluating the effects of organizational and educational interventions on adherence to clinical practice guidelines in a low resource primary care setting in Kenya. *Health Policy & Planning*. 2017 March; 1(8).

Kuo, BJ, Vissoci JR, **Egger, JR**, Smith ER, Grant GA, Haglund MM, Rice HE. Perioperative Outcomes for Pediatric Neurosurgical Procedures: Analysis of the National Surgical Quality Improvement Program. *Journal of Neurosurgery: Pediatrics*, 2017 March; 19(3).

Stanifer JW, Cleland CR, Makuka GJ, **Egger JR**, Maro V, Maro H, Karia F, Patel UD, Burton MJ, Philippin H. Prevalence, Risk Factors, and Complications of Diabetes in the Kilimanjaro Region: A Population-Based Study from Tanzania. *PLoS One*. 2016 Oct 6;11(10).

Stanifer JW, Turner EL, **Egger JR**, Thielman N, Karia F, Maro V, Kilonzo K, Patel UD, Yeates K. Knowledge, Attitudes, and Practices Associated with Chronic Kidney Disease in Northern Tanzania: A Community-Based Study. *PLoS ONE* 2016 June; 11(6).

Stanifer J, **Egger JR**, Turner E, Thielman N, Patel U. Neighborhood clustering of non-communicable diseases: results from a community-based study in Northern Tanzania; Comprehensive Kidney Disease Assessment for Risk factors, epidemiology, Knowledge, and Attitudes (CKD AFRiKA) Study. *BMC Public Health*. 2016 Mar 5;16(1):226.

Lunyera J, Ingabire P, Etolu W, Bagasha P, Mutungi G, **Egger JR**, Kalyesubula R. Prevalence and Correlates of Proteinuria in Kampala, Uganda: A Cross-sectional Pilot Study. *BMC Research Notes*. 2016 February;9(97).

Park PH, Wambui CK, Atieno S, **Egger JR**, Misoi L, Nyabundi JS, Pastakia SD, Bloomfield GS, Kamano JH. Improving Diabetes Management and Cardiovascular Risk Factors Through Peer-Led Self-management Support Groups in Western Kenya. *Diabetes Care*. 2015 Aug;38(8).

Stanifer JW, Maro V, **Egger JR**, Karia F, Thielman N, Turner EL, Shimbi D, Kilaweh H, Matemu O, Patel UD. The Epidemiology of Chronic Kidney Disease in Northern Tanzania: A Population-Based Survey. *PLoS One*. 2015 Apr 17;10(4).

Sumner SA, Pallangyo AJ, Reddy EA, Maro V, Pence BW, Lynch C, Turner EL, **Egger JR**, Thielman NM. Effect of free distribution of safety equipment on usage among motorcycle-taxi drivers in Tanzania--A cluster randomised controlled trial. *Injury*. 2014 November, 45(11).

Xie G, Laskowitz DT, Turner EL, **Egger JR**, Shi P, Ren F, Gao W, Wu Y. Baseline Health-Related Quality of Life and 10-Year All-Cause Mortality among 1739 Chinese Adults. *PLoS One*. 2014, Jul 9;9 (7) e101527.

Wilson E, **Egger JR**, Nguyen T. A School Nurse Visit-Based Syndromic Surveillance System and Comparison to Emergency Department Visits, New York City. *American Journal of Public Health*, 2014, January, 104(1): e50-6.

Agolory SG, Barbot O, Averhoff F, Weiss D, Konstan E, **Egger JR**, Wilson E, Miller J, Ogbuanu I, Walton S, Kahn E. Evaluation of Implementation of Non-pharmaceutical Interventions to Prevent 2009 Pandemic Influenza A (pH1N1) in New York City Public Schools. *PLoS ONE*, 2013 January, 8(1).

Weisfuse IB, Tsibane T, Konty KJ, **Egger JR**, Waddell EN, Rahmat S, Harris E, Olson DR, Basler CF. Seroprevalence of Pandemic Influenza Viruses Among A Population Based Sample of New York City Adults, Collected in 2004. *Emerging Infectious Diseases*, 2012 November, 18(11).

**Egger JR**, Gatewood-Hoen A, Brownstein J, Buckeridge D, Olson D, Konty KJ. Usefulness of School Absenteeism Data for Predicting Influenza Outbreaks, United States [Letter]. *Emerging Infectious Diseases*, 2012 August, 18(8).

**Egger JR**, Konty K, Wilson E, Karpati A, Matte T, Weiss D, Barbot O. The Effect of School Dismissal on Rates of Influenza-Like Illness in New York City Schools during the Spring 2009 Novel H1N1 Outbreak. *J School Health*. 2012 March, 82(3): 123-30.

Drobnik A, Konty K, **Egger JR**, Banach D, Rude E. Public health implications of rapid hepatitis C screening with an oral swab for community-based organizations serving high-risk populations. *American Journal of Public Health*. 2011 November, 101(11) 2151-5.

**Egger JR**, Konty K, Borrelli J, Cummiskey J, Blank J. Monitoring Temporal Changes in the Specificity of an Oral HIV Test: A Novel Application for Use in Postmarketing Surveillance. *PLoS ONE*. 2010 August, 5(8).

Presanis AM, De Angelis D; **New York City Swine Flu Investigation Team**, Hagy A, Reed C, Riley S, Cooper BS, Finelli L, Biedrzycki P, Lipsitch M. The severity of pandemic H1N1 influenza in the United States, from April to July 2009: a Bayesian analysis. *PLoS Med*. 2009 December, 6(12), 1-12.

Konty K, **Egger JR**, Kerker BD, Maldin B, Raphael M. Letter Regarding: Piegorsch, W.W., Cutter, S.L., and Hardisty, F. (2007). Benchmark analysis for quantifying urban vulnerability to terrorist incidents. *Risk Analysis*. 2009 September, 27(6), 1411-1425.

Laferrère B, Teixeira J, McGinty J, Tran H, **Egger JR**, Colarusso A, Kovack B, Bawa B, Koshy N, Lee H, Yapp K, Olivan B. Effect of weight loss by gastric bypass surgery versus hypocaloric diet on glucose and incretin levels in patients with type 2 diabetes. *J Clinical Endocrinol Metab*. 2008 July, 93(7), 2479-85.

**Egger, JR** and Coleman PG. Age and Clinical Dengue Illness. *Emerging Infectious Diseases*. 2007 June, Vol. 13, No. 6, 924-925.

**Egger JR**, Ooi EE, Kelly DW, Woolehouse MJE, Davies CR, Coleman PG. Reconstructing historical changes in the force of infection of dengue fever in Singapore: implications for surveillance and control. *Bulletin of the World Health Organization* 2008 March 86(3): 187-96.

Fenton JJ, **Egger JR**, Carney PA, Cutter GR, D'Orsi CJ, Sickles E, Fosse JS, Abraham LA, Taplin SH, Barlow WE, Hendrick RE, Elmore JG. Reality Check: Perceived versus Actual Performance of Community Mammographers. *American Journal of Roentgenology*. 2006 July 187(1): 42-6.

**Egger JR**, Cutter GR, Taplin SH, Carney PA, Barlow WE, Hendrick RE, D'Orsi CJ, Elmore JG. Mammographer's Perception of Breast Cancer Risk for Individual Women. *Medical Decision Making*. 2005 May/June 25(3): 283-289

Hendrick RE, Cutter GR, Berns E, Nakano C, **Egger JR**, Carney PA, Abraham LA, Taplin SH, D'Orsi CJ, Barlow WE, Elmore JG. Community-Based Mammography Practice: Services, Charges, and Interpretation Methods. *American Journal of Roentgenology*. 2005 Feb; 184(2):433-8

Elmore JG, Carney PA, Abraham LA, Barlow WE, **Egger JR**, Fosse JS, Cutter GR, Hendrick RE, D'Orsi CJ, Paliwal P, Taplin SH. **The association between obesity and screening mammography accuracy.** *Arch Intern Med*. 2004 May 24; 164(10): 1140-7. (Poster presentation).

#### INVITED PRESENTATIONS

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KUPAA R34 Training Workshop, March 12<sup>th</sup>, 2020, Mbeya Referral Hospital. **Causal Mediation Analysis in Randomized Controlled Trials.**

Psychiatric epidemiology training program seminar series, January 24<sup>th</sup>, 2020, Columbia University. **Causal mediation analysis for an individually-randomized group treatment trial of a psychosocial intervention in Tanzania.**

International Centers of Excellence for Malaria Research (ICEMR), 2019 Annual Meeting (NIH). Nairobi Kenya. **Temporal patterning and misclassification of subclinical malaria infection in a population-based cohort in Myanmar** (oral presentation).

Society for Epidemiologic Research, 2019, Annual meeting, Minneapolis, MN. **Two Simple Bias Analysis Methods to Correct Outcome Misclassification in Medical Records: Application for Quality Measurement of Obstetric Services in Uganda** (Poster presentation, coauthored with Msc-GH student, MK Kim)

Consortium of Universities for Global Health, 2019, Annual meeting, Chicago, IL. **Validity of a Medical Record to Measure the Quality of Obstetric Services in Rural Clinics in Greater Masaka District, Uganda** (Poster presentation, coauthored with Msc-GH student, MK Kim)

American Public Health Association, 2017, Annual Meeting, Atlanta, GA. **Obesity Incidence and Improving the Characterization of BMI Transitioning through Childhood** (Poster presentation).

Duke Data Visualization Friday Forum, September 2017, Duke LSRC. **Visualizing Human Populations and Data Sampling for Global Health Research** (Oral presentation).

Obesity Week, 2015, Annual Meeting, Los Angeles, CA. **Long-term weight gain prevention among women in primary care** (Poster presentation).

Consortium for Universities in Global Health, 2015, Annual Meeting, Boston, MA. **Evaluating the effects of organizational and educational interventions on adherence to clinical practice guidelines in a low resource primary care setting in Kenya** (Poster presentation).

International Society for Disease Surveillance, 2012 Annual Meeting, San Diego, CA. **Evaluation of Clinical and Administrative Data to Augment Public Health Surveillance** (Oral presentation).

North Carolina Healthcare Informatics and Communications Alliance, Informatics Workgroup, 2012, Research Triangle Park, NC. **The use of medical claims and electronic health record data to improve healthcare surveillance and clinical quality measurement** (Oral presentation).

Centers for Disease Control & Prevention, Statistics Advisory Group, 2011, Atlanta, GA. **Evaluation of Clinical and Administrative Data to Augment Public Health Surveillance** (Oral presentation).

American Public Health Association, 2011 Annual Meeting, Washington, DC. **Rapid hepatitis C screening using an oral swab: Public health implications for community-based organizations serving high-risk populations** (Poster presentation).

Society for Epidemiologic Research, 2010 Annual Meeting, Seattle, WA. **Monitoring Temporal Changes in the Specificity of an Oral HIV Test** (Poster presentation).

International Society for Disease Surveillance, 2010 Annual Meeting, Park City, UT. **Usefulness of School Absenteeism Data for Predicting Influenza Outbreaks, United States** (Oral presentation).



International Society for Disease Surveillance, 2009 Annual Meeting, Miami, FL. ***The Effect of School Dismissal on Rates of Influenza-Like Illness in New York City Schools during the Spring 2009 Novel H1N1 Outbreak*** (Oral presentation).

Johns Hopkins University, Department of Epidemiology, 2009, Baltimore, MD. ***The Effect of School Dismissal on Rates of Influenza-Like Illness in New York City Schools during the Spring 2009 Novel H1N1 Outbreak*** (Oral presentation).

Second International Congress on Dengue and Yellow Fever, 2004, Havana, Cuba, 2004. **A Political Ecological Analysis of the Emergence and Proliferation of Dengue and Dengue Hemorrhagic Fever in Port of Spain, Trinidad and Tobago** (Poster presentation).

Association of American Geographers, 2004 Annual Meeting, Philadelphia, PA. **Building on a Political Ecological Framework of Infectious Disease** (Oral presentation).

#### GRANT AND CONTRACT AWARDS

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National Institutes of Allergy and Infectious Diseases, 2017-2024 (Co-investigator and Core Lead 001: Biostatistics and Data Management). Myanmar Center of Excellence for Malaria Research. \$6,913,346

LifeNet International, 2017-2018 (Co-Principal Investigator). Evaluation of LifeNet International's training program on maternal and neonatal quality of care in partner clinics in Masaka District, Uganda. \$144,346.00

National Institute of Diabetes and Digestive and Kidney Diseases, 2017-2020 (Co-investigator). Family psychoeducation for adults with psychotic disorders in Tanzania [Grant No. 1 R34MH106663-01A1, \$234,634]

National Institute of Mental Health, 2016-2019 (Co-investigator). A Pragmatic Trial of a Digital Health Intervention to Prevent Weight Gain in Primary Care [Grant No. 1 R18 DK109518-01, \$3,769,470]

National Institutes of Health, Small Business Innovation Research Program, 2014-2017 (Co-investigator). Epic Allies: A smartphone app for ART uptake and adherence among YMSM [Grant No. 2 R44 MH102096-02]

National Institutes of Mental Health, 2016-2017 (Lead statistician). *healthMpowerment*: This study aims to evaluate healthMpowerment.org, a website designed to provide health and wellness information and education relevant to young Black men in North Carolina [Grant No. R01 MH093275-01].

Duke University Bass Connections, 2014-2015 (*Global Health* theme, Co-Principal Investigator and lead instructor). Evaluation of Scaling Innovative Healthcare Delivery in East Africa. (\$25,000)

Alfred P. Sloane Foundation, 2010. Augmenting Statistical Methods for Public Health Syndromic Surveillance Systems [Grant No. 2010-12-14, \$1,250,058].

Food and Drug Administration, Center for Biologics Evaluation and Research, Office of Biostatistics and Epidemiology, 2012 (Investigator). A Study on the Impact of Various Bias Parameters on Study Designs Using Quantitative Bias Analysis via Simulations [Contract No. FDA-SOL-1100707, \$310,000].

Centers for Disease Control & Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, 2012 (Investigator). Lung Cancer Screening Surveillance [Contract No. 200-2008-27889, Task Order 18, \$145,000].

Centers for Disease Control & Prevention, National Center for Chronic Disease Prevention and Health Promotion, Health Related Quality of Life Branch, 2012 (Investigator). [Contract No. 200-2008-27889, Task Order 23, \$131,000].

Centers for Disease Control & Prevention, National Center for Injury Prevention and Control, Division of Unintentional Injury Prevention, 2012 (Investigator). Surveillance and Epidemiology of Traumatic Brain Injury [Contract No. 200-2012-M-53715, \$148,987].

Food and Drug Administration, Center for Tobacco Products, 2013 (Co-Investigator). Research to Expand the Evidence Base for the CTP Policy Options [Contract No. HHSF223201310024I, Single award IDIQ, ceiling: \$35,000,000].

#### CONSULTING

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Zero Tracing, epidemiology advisor (2016-present)

London School of Hygiene & Tropical Medicine, P. falciparum malaria vaccine initiative

Food and Drug Administration (SciMetrika), quantitative bias analysis for post-marketing safety surveillance

Centers for Disease Control & Prevention (SciMetrika), use of electronic health records for environmental public health surveillance

Centers for Disease Control & Prevention (SciMetrika), surveillance of lung cancer screening using low dose CT