

CURRICULUM VITAE FORMAT

DATE: July 8th, 20222

NAME: Gwennyth O. Lee

PRESENT TITLE: Assistant Professor

CITIZENSHIP: United States

EDUCATION:

A. Undergraduate Graduate and Professional

*University of Wisconsin
Madison, Wisconsin
BA (Chemistry, English)*

December 2003

B. Graduate and Professional

*Johns Hopkins Bloomberg School of Public Health
Baltimore, MD
MHS (International Health)*

May 2006

*Johns Hopkins Bloomberg School of Public Health
Baltimore, MD
MHS (Biostatistics)*

May 2013

*Johns Hopkins Bloomberg School of Public Health
Baltimore, MD*

*Supported by a Maternal and Child Health Training Grant (T32HD046405; PI: Joanne Katz)
PhD (International Health)*

May 2013

POSTGRADUATE TRAINING:

A. Postdoctoral Appointments

*Johns Hopkins Bloomberg School of Public Health
Fogarty Global Health Fellowship (R25TW009340; PI: Charles Van Der Horst)
Asociación Benéfica PRISMA -Iquitos, Perú
Discipline: Global Health
June 2014 – June 2015*

*Tulane University
NIH Fogarty International Center Framework Programs for Global Health Innovation
Inter-American Training for Innovations in Emerging Infectious Diseases Program
(D43TW009349, PI: Richard Oberhelman)
Universidad Peruana Cayetano Heredia – Lima, Perú
Discipline: Global Health
July 2015 – August 2016*

ACADEMIC APPOINTMENTS:

Department of International Health

*Johns Hopkins University (Bloomberg School of Public Health)
Research Associate
June 2013-May 2014*

*Department of Epidemiology
University of Michigan School of Public Health)
Research Assistant Professor
September 2016 - August 2022*

*Rutgers Global Health Institute & Department of Biostatistics and Epidemiology
Rutgers University
Assistant Professor
September 2022 - present*

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

*American Society of Tropical Medicine and Hygiene
Member (2016-present), Membership committee member (2021-present)*

*American Society for Nutrition
Member (2016-present)*

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

*Ad hoc reviewer, National Science Foundation (March 2022)
Ad hoc reviewer, Medical Research Council-UKRI (March 2021)*

SERVICE ON MAJOR COMMITTEES:

E. Department
Faculty Advisor, 'Timmy Global Health', University of Michigan, (2019-2022)
Epidemiology Strategic Planning Committee, University of Michigan Department of Epidemiology, (2021-2022)
Master's Recruitment Committee, University of Michigan Department of Epidemiology, (2018-2019, 2020-2021)
Research Committee, University of Michigan Department of Epidemiology, (2018-2019)
Master's Committee, University of Michigan Department of Epidemiology, (2017-2018)
Admission's Committee, University of Michigan Department of Epidemiology, (2016-2017)

G. *AdHoc* Reviewer
American Journal of Tropical Medicine and Hygiene: 2016(3), 2018(1), 2019(3)
Anthropocene: 2021(1)
BMJ Open: 2022(1)
Cogent Medicine: 2022(1)
EBioMedicine: 2017(1), 2021(1)
eLife, 2020 (1)
Environmental Science and Technology, 2018(1), 2019(1), 2021(1)
Emerging Infectious Diseases: 2022(1)
Epidemiology and Infection: 2016(1), 2017(1)
European Journal of Clinical Nutrition: 2022(1)
European Journal of Pediatrics: 2021(1)
Food & Function, 2019 (1), 2021(1)
Hormone Research in Pediatrics: 2017(1)
Infectious Diseases of Poverty: 2022(1)
International Journal of Environmental Research and Public Health: 2021(1)
International Journal of Obesity: 2022(1)
J Hunger and Environmental Nutrition 2020(1), 2021(1), 2022(1)
The Journal of Pediatrics, 2016(1), 2020(1)
Journal of the Pediatric Disease Society: 2016(1), 2020(1)

Lancet Regional Health Americas: 2021(1)
Nutrients: 2022(1)
Nutrition and Dietetics: 2022(1)
PLOS Neglected Tropical Diseases: 2021(3); 2022(1)
Public Health Nutrition: 2020(2), 2022(1)
Scientific Reports: 2020(1)
Trends in Parasitology 2016 (1)

SPONSORSHIP (Primary Mentorship) OF CANDIDATES FOR POSTGRADUATE DEGREE:

1. LaLonde, Hannah, MPH – Internship supervisor, Summer 2022.
Title: Validation of Eye-Tracking to Assess Child Cognitive Development
2. Downs, Jenna, MPH – Internship supervisor, Summer 2022.
Title: Mapping of the Food Environment in rural coastal Ecuador
3. Glover, Brian, MPH – Internship supervisor, Summer 2021, ILE advisor, 2021-2022.
Title: Validation of Self-Reported Biting Rate Surveys for Vector-Borne Disease Research (under review, *American Journal of Tropical Medicine and Hygiene*)
4. Muthukumar, Lavanya, MPH – Research project advisor, Summer 2021
Title: Home Environment and Language Development among Ecuadorian toddlers (under review, *Child: Care, Health, and Development*)
5. Warmanen, Penny, MPH – ILE advisee, 2020-2021
Title: Wealth and health: measures of socioeconomic status in rural versus urban communities in Ecuador
6. Reynolds, Elise, MPH – Supervisor, 2019-2020
Title: Mothers' perspectives of complementary feeding practices in an urban informal settlement in Kisumu County, western Kenya. (Published, *Current Developments in Nutrition*)
7. Dramann, Devon, MPH - Internship supervisor, Summer 2020
Title: Relationships between Nutritional Status and Dengue in Ecuador
8. Fineman, Lillian, MPH. ILE advisor, 2018-2019
Title: The Association Between Social Connectedness, WASH Practices, and Childhood Diarrheal Disease in Peruvian Peri-Urban Communities
9. Collingwood, Abigail, MPH – Internship supervisor, summer 2019
Title: A pilot study to measure social networks in Esmeraldas, Ecuador
10. Peterman, Kelli, MPH – Internship supervisor, summer 2019
Title: Unmanned Aerial Vehicle Mapping of Dengue Vector Habitats in Ecuador
11. Boerger, Savannah, MPH – Internship supervisor, summer 2019
Title: characterizing mosquito species in Esmeraldas, Ecuador
12. Uruchima, Jessica, MPH – Internship supervisor, summer 2018, ILE advisor, 2018-2019
Internship Title: Characterizing Nutritional Exposures Among Infants and Women in Urban Coastal Ecuador: A Pilot Study
ILE Title: Chicken contact and its association with child nutrition outcomes in coastal Ecuador
13. Sun, Kelly, MPH - Internship supervisor, summer 2018
Title: Characterizing environmental exposures among infants in urban coastal Ecuador (Published, *American Journal of Tropical Medicine and Hygiene*)

14. Ludwig-Borycz, Elizabeth, MPH – Internship supervisor, summer 2018
Title: Characterizing the Infant Diet and Microbiome in Esmeraldas, Ecuador: a preliminary analysis for the EcoMiD Microbiome Cohort Study
15. Gutierrez, Cynthia, MPH - Internship supervisor, summer 2017, ILE supervisor, 2017-2018
Title: Multiple burdens of malnutrition and relative remoteness in rural Ecuadorian communities. (Published, *Public Health and Nutrition*)
16. Gutierrez, Helen, MA - Internship supervisor, summer 2017, Thesis supervisor, 2017-2018
Title: Perceptions of Local Vulnerability and the Relative Importance of Climate Change in Rural Ecuador. (Published, *Human Ecology*)
17. Whitney, Holly, MPH - Internship supervisor, summer 2017, ILE supervisor, 2017-2018
Title: Household coping strategies associated with unreliable water supplies and diarrhea in Ecuador, an upper-middle-income country (Published, *Water Research*)

TEACHING RESPONSIBILITIES: (Teaching effectiveness should be addressed in nominating letter)

A. Course Directorships

Fall 2008	IH-Introduction to International Health: Johns Hopkins Bloomberg School of Public Health Teaching Assistant (Primary Instructor: James Tielsch)
Winter 2008	IH-Vaccine Seminar Johns Hopkins Bloomberg School of Public Health Teaching Assistant (Primary Instructor: Anna Durbin)
Winter 2018	EPID641. Measurement Theory and Instrument Design. University of Michigan Co-Instructor (with Dr. Ryan Malosh) Enrollment: 37 students (Module 1); 34 students (Module 2)
Fall 2018	PUBHTLH479: Independent Study University of Michigan Experience. Primary Instructor. Enrollment: 1 student, 2 credit hours
Fall 2018	EPID506: Health of Nations: Introduction to International Health University of Michigan Primary Instructor Enrollment: 22 students, 3 credit hours
Fall 2019	EPID506: Health of Nations: Introduction to International Health University of Michigan Primary Instructor Enrollment: 14 students, 3 credit hours
Fall 2020	EPID506: Health of Nations: Introduction to International Health University of Michigan Primary Instructor Enrollment: 15 students (Hybrid); 8 students (Remote). 3 credit hours
Fall 2020	PUBHTLH450: Critical Reflections on Global Health. University of Michigan Primary Instructor Enrollment: 9 students (Hybrid); 9 students (Remote). 3 credit hours
Fall 2021	PUBHTLH450: Critical Reflections on Global Health. University of Michigan Primary Instructor Enrollment: 15 students, 3 credit hours
Fall 2021	PUBHTLH479: Independent Study

University of Michigan
Primary Instructor.
Enrollment: 1 student. 3 credit hours

B. Intramural Guest Lectures

Survey Development. EPID664. 2019 (University of Michigan, Instructor: Alexis Handal)
Lee GO. Environmental enteric dysfunction and cardiometabolic health. Evolution and Human Adaptation Program (EHAP) Seminar series, Feb 3rd, 2019. Institute for Social Research.
Intermural guest lecture. Survey Development. EPID664. 2017 (University of Michigan, Instructor: Rafael Meza)

C. Extramural Guest Lectures

Universidad Peruana Cayetano-Heredia. Course: Health Project Management. Instructor: Gabriela Salmon-Mulanovich. 2021.

Tulane University. Course: SPHU4500 Global Health 'Food Security'. Instructor: Valerie Paz-Soldan. 2021.

Duke University. Course: GLHLTH 573D One Health: From Philosophy to Practice. 'Diarrheal Disease Research in Iquitos, Peru'. Instructor: William Pan. 2016.

University of Kentucky. Course: CPH 751 Introduction to Global Public Health. 'Methods in Global Health Nutrition' Instructor: April Young. 2015. B. Research Training (other than Primary Mentorship)

D. Pre-Doctoral Students: *name, dates (inclusive) of training*

Maheen Humayun (University of Michigan, Committee member)
Title: Addressing place-based disparities in tuberculosis epidemic to inform elimination strategy in Arkansas, a low incidence setting
Dates: 2021-present
Advisor: Zhenhua Yang

Andrea Sosa (University of Michigan, Committee member)
Title: impacts of intermittent and low-quality water systems on household water-related behaviors, enteropathogen load and human health
Dates: 2021-present
Advisor: Joseph Eisenberg

Ramya Narahansetti (University of Michigan, Committee member)
Title: Social Dimensions of Infectious Disease: Transmission, Trends and Measurement
Dates: 2020-present
Advisor: Jon Zelner

GRANT SUPPORT: *(Please list in either chronological order with newest or most current first OR in reverse chronological order, as desired)*

A. Principal Investigator

Active:

2. K01AI145080-01A1 (PI: Lee)
NIH/NIAID

Title: Dynamic modeling of antagonism between enteric infection and undernutrition in infancy

04/2020- 04/2025

Funding Amount: \$570,260

1. E41016 (PI: Lee)

Title: Application of Stable Isotope Techniques in Environmental Enteric Dysfunction Assessment and Understanding its Impact on Child Growth
09/ 2021 – 12/2022

Sponsoring Agency: United Nations International Atomic Energy Agency
Funding level: (€20,000- approximately \$24,000)

3. E43036 (PI: Lee)

Title: The Efficacy of Amino Acid Supplementation in Treating Environmental Enteric Dysfunction Among Children at Risk of Malnutrition
09/ 2021 – 12/2022

Sponsoring Agency: United Nations International Atomic Energy Agency
Funding level: (€40,000- approximately \$45,000)

Prior:

3. Office of Global Public Health-University of Michigan (PI: Lee)

Title: Impact of neighborhood food environments on obesity risk in coastal Ecuador.
06/2022-06/2023

Funding level: \$7,500

4. Center for Global Health Equity, University of Michigan (PI: Lee)

Title: Engaging stakeholders to respond to maternal depression in rural and urban northwestern Ecuador: an applied anthropological approach
01/2022-01/2023

Funding level: \$35,000

4. Office of Global Public Health-University of Michigan (PI: Lee)

Title: Aedes Aegypti breeding sites using unmanned aerial vehicle (UAV) mapping: a pilot study
01/2019-12/2019

Funding level: \$7,500

5. University of Michigan Graham Sustainability Institute (PI: Lee)

Title: A participatory risk assessment to explore vulnerability to enteric disease resulting from climatic variability in Northern Ecuador
01/2017-12/2017

Funding level: \$10,000

Role: Principal Investigator

6. Thrasher Foundation (PI: Lee)

Title: An Evaluation of Environmental Enteropathy in Childhood as a Risk Factor for Later Chronic Disease
06/2014-06/2015

Funding level: \$27,500

7. Proctor and Gamble Dissertation Award (PI: Lee)

Title: Diarrheal disease and linear growth in Peruvian infants
05/2011- 01/2013

Funding level: \$50,000

B. Co-Investigator

Active:

1. R01 AI162867-01 (PI: Arnold)

NIH/NIAID

07/2021-06/2026

Title: Enteric Pathogen Force of Infection among Children using Serology

Funding level: \$735,554 (UMich Sub)

2. R01AI137679-03S1 (MPI: Eisenberg, Levy)

NIH/NIAID

04/2020 – 03/2023

Title: Animal Exposure Influences on Infant Gut Health Across a Rural Urban Gradient

Funding Amount: \$311,051 (UMich Sub)

3. R01AI137679 (MPI: Eisenberg, Levy)

NIH/NIAID

Title: Gut microbiome, enteric infections and child growth across a rural urban gradient

04/2018 – 03/1023

Funding Amount: \$677,082 (UMich Sub)

4. University of Michigan Center for Global Health Equity (PI: Lee, Muzik)

Title: Engaging stakeholders to respond to maternal depression in rural and urban

northwestern Ecuador: an applied anthropological approach

01/2022-12/2022

Funding Amount: \$35,000

Prior:

4. R01AI132372 (MPI: Eisenberg, Coloma)

NIH/NIAID

08/2017 – 07/2021

Title: Zika and Dengue Co-circulation Under Environmental Change and Urbanization

Funding amount: \$460,403 (UMich Sub)

C. Pending

1. R01 (MPI: Lee, Eisenberg, Levy)

NIH/NIAID

07/2023-06/2028

Title: The impact of climate on the ECoMiD (Enteropatógenos, Crecimiento, Microbioma, y Diarrea) cohort”

2. R01 (PI: Lee)

NIH/NICHHD

07/2023-06/2028

Title: “Enteric infection, gut microbiome and child neurodevelopment across a rural-urban gradient”)

PUBLICATIONS:

A. Refereed Original Article in Journal
(*trainee authors indicated with an asterisk)

1. Espira L, **Lee GO**, Baye K, Jones AD, Love NG, Eisenberg JNS. Stool biomarkers as measures of enteric pathogen infection in infants from Addis Ababa informal settlements. *PLoS NTDs* 2023 (In Press).

2. Glover, B*, **Lee GO**, Suing O, Ha T, Thongsripong P, Cevallos VE, Ponce P, Van Wyk H, Morrison AC, Coloma J, Eisenberg JNS. Validity of self-reported mosquito bites to assess household mosquito abundance in six communities of Esmeraldas province, Ecuador. *The American Journal of Tropical Medicine and Hygiene*. 2023 (In Press).

3. Marquez S, **Lee GO**, Zuniga J*, Paulina A, Trueba G, Eisenberg JNS, Coloma J.

A Chikungunya outbreak in a dengue endemic region in rural northern coastal Ecuador. *The American Journal of Tropical Medicine and Hygiene*. 2022 (In Press).

4. Sosa-Moreno A*, **Lee GO**, Van Engen A, Sun K*, Uruchima J*, Kwong LH, Ludwig-Borycz E*, Caruso BA, Cevallos W, Levy K, Eisenberg JNS. Characterizing Behaviors Associated with Enteric Pathogen Exposure among Infants in Rural Ecuador through Structured Observations. *The American Journal of Tropical Medicine and Hygiene*. 2022; 106(6):1747.

5. **Lee GO**, Eisenberg JNS, Uruchima J*, Vasco G, Smith SM, Van Engen A, Victor C, Reynolds E*, MacKay R, Jesser KJ, Castro N, Calvopiña M, Konstantinidis KT, Cevallos W, Trueba G, Levy K. Gut microbiome, enteric infections and child growth across a rural-urban gradient: protocol for the ECoMiD prospective cohort study. *BMJ Open*. 2021;11(10):e046241.

6. **Lee GO**, Gutierrez C*, Castro Morillo N, Cevallos W, Jones AD, Eisenberg JNS. Multiple burdens of malnutrition and relative remoteness in rural Ecuadorian communities. *Public Health Nutrition*. 2021;24(14):4591.

7. **Lee GO**, Vasco L, Márquez S, Zuniga-Moya JC, Van Engen A, Uruchima J*, Ponce P, Cevallos W, Trueba G, Trostle J, Berrocal VJ, Morrison AC, Cevallos V, Mena C, Coloma J, Eisenberg JNS. A dengue outbreak in a rural community in Northern Coastal Ecuador: An analysis using unmanned aerial vehicle mapping. *PLoS Neglected Tropical Diseases*. 2021;15(9):e0009679.

8. Ambikapathi R, Kosek MN, **Lee GO**, Olortegui MP, Zaitchik B, Peñataro Yori P, Bauck A, Caulfield LE. La Niña weather impacts dietary patterns and dietary diversity among children in the Peruvian Amazon. *Public Health Nutrition*. 2021;24(11):3477.

9. Richard SA, McCormick BJJ, Murray-Kolb LE, Bessong P, Shrestha SK, Mduma E, Ahmed T, Kang G, **Lee GO**, Seidman JC, Svensen E, Kosek MN, Caulfield LE. Influences on catch-up growth using relative versus absolute metrics: evidence from the MAL-ED cohort study. *BMC Public Health*. 2021;21(1):1246.

10. Reynolds EC*, Onyango D, Mwando R, Oele E, Misore T, Agaya J, Otieno P, Tippet Barr BA, **Lee GO**, Akelo V. Mothers' Perspectives of Complementary Feeding Practices in an Urban Informal Settlement in Kisumu County, Western Kenya. *Current Developments in Nutrition*. 2021;5(5):nzab065.

11. Miles TT, Riley-Powell AR, **Lee GO**, Gotlieb EE, Barth GC, Tran EQ, Ortiz K, Huaynate CA, Cabrera L, Gravitt PE, Oberhelman RA, Paz-Soldan VA. Knowledge, attitudes, and practices of cervical cancer prevention and pap smears in two low-income communities in Lima, Peru. *BMC Womens Health*. 2021;21(1):168.

12. **Lee GO**, Schillinger R, Shivakumar N, Whyte S, Huq S, Ochieng Konyole S, Chileshe J, Paredes-Olortegui M, Owino V, Yazbeck R, Kosek MN, Kelly P, Morrison D. Optimisation, validation and field applicability of a 13C-sucrose breath test to assess intestinal function in environmental enteropathy among children in resource poor settings: study protocol for a prospective study in Bangladesh, India, Kenya, Jamaica, Peru and Zambia. *BMJ Open*. 2020;10(11):e035841.

13. Kraay ANM, Ionides EL, **Lee GO**, Trujillo WFC, Eisenberg JNS. Effect of childhood rotavirus vaccination on community rotavirus prevalence in rural Ecuador, 2008-13. *International Journal of Epidemiology*. 2020;49(5):1691.

14. Magni R, Ruga F, Alsaab FM, Sharif S, Howard M, Espina V, Kim B, Lepene B, **Lee GO**, Alayouni MA, Steinberg H, Araujo R, Kashanchi F, Riccardi F, Morreira S,

- Araujo A, Poli F, Jaganath D, Semitala FC, Worodria W, Andama A, Choudhary A, Honnen WJ, Petricoin EF 3rd, Cattamanchi A, Colombatti R, de Waard JH, Oberhelman R, Pinter A, Gilman RH, Liotta LA, Luchini A. Lipoarabinomannan antigenic epitope differences in tuberculosis disease subtypes. *Scientific Reports*. 2020;10(1):13944.
15. **Lee GO**, Comina G, Hernandez-Cordova G, Naik N, Gayoso O, Ticona E, Coronel J, Evans CA, Zimic M, Paz-Soldan VA, Gilman RH, Oberhelman R. Cough dynamics in adults receiving tuberculosis treatment. *PLoS One*. 2020;15(6):e0231167.
16. Gutierrez H*, **Lee GO**, Angulo BC, Dimka J, Eisenberg JN, Trostle JA, Hardin R. Perceptions of Local Vulnerability and the Relative Importance of Climate Change in Rural Ecuador" *Human Ecology*.2020.1. (This journal is not indexed on PubMed)
17. Tallman PS, Riley-Powell AR, Schwarz L, Salmón-Mulanovich G, Southgate T, Pace C, Valdés-Velásquez A, Hartinger SM, Paz-Soldán VA, **Lee GO**. Ecosyndemics: The potential synergistic health impacts of highways and dams in the Amazon. *Social Science and Medicine*. 2020;295:113037.
18. **Lee GO**, Whitney HJ*, Blum AG, Lybik N*, Cevallos W, Trueba G, Levy K, Eisenberg JNS. Household coping strategies associated with unreliable water supplies and diarrhea in Ecuador, an upper-middle-income country. *Water Research*. 2020;170:115269.
19. **Lee GO**, Paz-Soldan VA, Riley-Powell AR, Gómez A, Tarazona-Meza C, Villaizan Paliza K, Ambikapathi R, Ortiz K, Comina G, Hernandez G, Naik N, Oberhelman R, Ugarte-Gil C. Food Choice and Dietary Intake among People with Tuberculosis in Peru: Implications for Improving Practice. *Current Developments in Nutrition*. 2020;4(2):nzaa001.
20. Tallman PS, Valdés-Velásquez A, Salmón-Mulanovich G, **Lee GO**, Riley-Powell AR, Blanco-Villafuerte L, Hartinger SM, Paz-Soldán VA. A "Cookbook" for Vulnerability Research. *Frontiers in Public Health*. 2019;7:352.
21. Schiaffino F, **Lee GO**, Paredes-Olortegui M, Cabrera L, Penataro-Yori P, Gilman RH, Kosek MN. Evolution of the Bacillus Calmette-Guerin Scar and Its Association with Birth and Pregnancy Characteristics in a Prospective Cohort of Infants in Iquitos, Peru. *American Journal of Perinatology*. 2019;36(12):1264.
22. McCormick BJJ, Murray-Kolb LE, **Lee GO**, Schulze KJ, Ross AC, Bauck A, Lima AAM, Maciel BLL, Kosek MN, Seidman JC, Ambikapathi R, Bose A, John S, Kang G, Turab A, Mduma E, Bessong P, Shrestha SK, Ahmed T, Mahfuz M, Olortegui MP, Bhutta Z, Caulfield LE. Intestinal permeability and inflammation mediate the association between nutrient density of complementary foods and biochemical measures of micronutrient status in young children: results from the MAL-ED study. *American Journal of Clinical Nutrition*. 2019;110(4):1015.
23. Richard SA, McCormick BJJ, Murray-Kolb LE, **Lee GO**, Seidman JC, Mahfuz M, Ahmed T, Guerrant RL, Petri WA, Rogawski ET, Houpt E, Kang G, Mduma E, Kosek MN, Lima AAM, Shrestha SK, Chandyo RK, Bhutta Z, Bessong P, Caulfield LE. Enteric dysfunction and other factors associated with attained size at 5 years: MAL-ED birth cohort study findings. *American Journal of Clinical Nutrition*. 2019;110(1):131.
24. Ambikapathi R, Rothstein JD, Yori PP, Olortegui MP, **Lee GO**, Kosek MN, Caulfield LE. Food purchase patterns indicative of household food access insecurity, children's dietary diversity and intake, and nutritional status using a newly developed and validated tool in the Peruvian Amazon. *Food Security*. 2018;10(4):999.

25. Riley-Powell AR, **Lee GO**, Naik NS, Jensen KE, O'Neal C, Salmón-Mulanovich G, Hartinger SM, Bausch DG, Paz-Soldan VA. The impact of road construction on subjective well-being in communities in Madre de Dios, Peru. *International Journal of Environmental Research and Public Health*. 2018;15(6):1271.
26. Proaño A, Bui DP, López JW, Vu NM, Bravard MA, **Lee GO**, Tracey BH, Xu Z, Comina G, Ticona E, Mollura DJ, Friedland JS, Moore DAJ, Evans CA, Caligiuri P, Gilman RH. Cough frequency during treatment associated with baseline cavitory volume and proximity to the airway in pulmonary TB. *Chest*. 2018;153(6):1358.
27. Exum NG, **Lee GO**, Olórtegui MP, Yori PP, Salas MS, Trigos DR, Colston JM, Schwab KJ, McCormick BJJ, Kosek MN. A longitudinal study of household water, sanitation, and hygiene characteristics and environmental enteropathy markers in children less than 24 months in Iquitos, Peru. *American Journal of Tropical Medicine and Hygiene*. 2018;98(4):995.
28. **Lee GO**, Surkan PJ, Zelner J, Paredes Olórtegui M, Peñataro Yori P, Ambikapathi R, Caulfield LE, Gilman RH, Kosek MN. Social connectedness is associated with food security among peri-urban Peruvian Amazonian communities. *SSM Population Health*. 2018;4:254.
29. Jensen KE, Naik NN, O'Neal C, Salmón-Mulanovich G, Riley-Powell AR, **Lee GO**, Hartinger SM, Bausch DG, Paz-Soldan VA. Small scale migration along the interoceanic highway in Madre de Dios, Peru: an exploration of community perceptions and dynamics due to migration. *BMC International Health and Human Rights*. 2018;18(1):12.
30. Kosek MN, **Lee GO**, Guerrant RL, Haque R, Kang G, Ahmed T, Bessong P, Ali A, Mduma E, Peñataro Yori P, Faubion WA, Lima AAM, Paredes Olortegui M, Mason C, Babji S, Singh R, Qureshi S, Kosek PS, Samie A, Pascal J, Shrestha S, McCormick BJJ, Seidman JC, Lang DR, Zaidi A, Caulfield LE, Gottlieb M. Age and sex normalization of intestinal permeability measures for the improved assessment of enteropathy in infancy and early childhood: results from the MAL-ED Study. *Journal of Pediatric Gastroenterology and Nutrition*. 2017;65(1):31.
31. **Lee GO**, McCormick BJJ, Seidman JC, Kosek MN, Haque R, Olortegui MP, Lima AAM, Bhutta ZA, Kang G, Samie A, Amour C, Mason CJ, Ahmed T, Yori PP, Oliveira DB, Alam D, Babji S, Bessong P, Mduma E, Shrestha SK, Ambikapathi R, Lang DR, Gottlieb M, Guerrant RL, Caulfield LE, for The MAL-ED Network Investigators. Infant nutritional status, feeding practices, enteropathogen exposure, socioeconomic status, and illness are associated with gut barrier function as assessed by the lactulose mannitol test in the MAL-ED birth cohort. *American Journal of Tropical Medicine and Hygiene*. 2017;97(1):281.
32. Colston JM, Peñataro Yori P, Colantuoni E, Moulton LH, Ambikapathi R, **Lee GO**, Rengifo Trigos D, Siguas Salas M, Kosek MN. A methodologic framework for modeling and assessing biomarkers of environmental enteropathy as predictors of growth in infants: an example from a Peruvian birth cohort. *American Journal of Clinical Nutrition*. 2017;106(1):245.
33. **Lee GO**, Olortegui MP, Salas MS, Yori PP, Trigos DR, Kosek P, Mispireta ML, Oberhelman R, Caulfield LE, Kosek MN. Environmental enteropathy is associated with cardiometabolic risk factors in Peruvian children. *Journal of Developmental Origins of Health and Disease*. 2017;8(3):337.
34. Proaño A, Bravard MA, López JW, **Lee GO**, Bui D, Datta S, Comina G, Zimic M,

Coronel J, Caviedes L, Cabrera JL, Salas A, Ticona E, Vu NM, Kirwan DE, Loader MI, Friedland JS, Moore DAJ, Evans CA, Tracey BH, Gilman RH. Dynamics of Cough Frequency in Adults Undergoing Treatment for Pulmonary Tuberculosis. *Clinical Infectious Disease*. 2017;64(9):1174.

35. Kosek MN and the MAL-ED Network Investigators. Causal Pathways from Enteropathogens to Environmental Enteropathy: Findings from the MAL-ED Birth Cohort Study. *EBioMedicine*. 2017;18:109.

36. McCormick BJJ, **Lee GO**, Seidman JC, Haque R, Mondal D, Quetz J, Lima AAM, Babji S, Kang G, Shrestha SK, Mason CJ, Qureshi S, Bhutta ZA, Olorategui MP, Yori PP, Samie A, Bessong P, Amour C, Mduma E, Patil CL, Guerrant RL, Lang DR, Gottlieb M, Caulfield LE, Kosek MN. Dynamics and Trends in Fecal Biomarkers of Gut Function in Children from 1-24 Months in the MAL-ED Study. *American Journal of Tropical Medicine and Hygiene*. 2017;96(2):465.

37. Hoest C, Seidman JC, **Lee GO**, Platts-Mills JA, Ali A, Olorategui MP, Bessong P, Chandyo R, Babji S, Mohan VR, Mondal D, Mahfuz M, Mduma ER, Nyathi E, Abreu C, Miller MA, Pan W, Mason CJ, Knobler SL. Vaccine coverage and adherence to EPI schedules in eight resource poor settings in the MAL-ED cohort study. *Vaccine*. 2017;35(3):443.

38. **Lee GO**, Richard SA, Kang G, Houpt ER, Seidman JC, Pendergast LL, Bhutta ZA, Ahmed T, Mduma ER, Lima AA, Bessong P, Jennifer MS, Hossain MI, Chandyo RK, Nyathi E, Lima IF, Pascal J, Soofi S, Ladaporn B, Guerrant RL, Caulfield LE, Black RE, Kosek MN. A Comparison of Diarrheal Severity Scores in the MAL-ED Multisite Community-Based Cohort Study. *Journal of Pediatric Gastroenterology and Nutrition*. 2016;63(5):466.

39. **Lee GO**, Paredes Olorategui M, Salmón-Mulanovich G, Peñataro Yori P, Kosek M. Early child health in an informal settlement in the Peruvian Amazon. *BMC International Health and Human Rights*. 201;16(1):26.

40. Kosek MN, Mduma E, Kosek PS, **Lee GO**, Svensen E, Pan WKY, Olorategui MP, Bream JH, Patil C, Asayag CR, Sanchez GM, Caulfield LE, Gratz J, Yori PP. Plasma Tryptophan and the Kynurenine-Tryptophan Ratio are Associated with the Acquisition of Statural Growth Deficits and Oral Vaccine Underperformance in Populations with Environmental Enteropathy. *The American Journal of Tropical Medicine and Hygiene*. 2016;95(4):928.

41. Ambikapathi R, Kosek MN, **Lee GO**, Mahopo C, Patil CL, Maciel BL, Turab A, Islam MM, Ulak M, Bose A, Paredes Olorategui M, Pendergast LL, Murray-Kolb LE, Lang D, McCormick BJ, Caulfield LE. How multiple episodes of exclusive breastfeeding impact estimates of exclusive breastfeeding duration: report from the eight-site MAL-ED birth cohort study. *Maternal Child Nutrition*. 2016;12(4):740.

42. Proaño A, Bravard MA, Tracey BH, López JW, Comina G, Zimic M, Coronel J, **Lee GO**, Caviedes L, Cabrera JL, Salas A, Ticona E, Kirwan DE, Friedland JS, Evans CA, Moore DA, Gilman RH. Protocol for studying cough frequency in people with pulmonary tuberculosis. *BMJ Open*. 2016;6(4):e010365.

43. George CM, Oldja L, Biswas SK, Perin J, **Lee GO**, Ahmed S, Haque R, Sack RB, Parvin T, Azmi IJ, Bhuyian SI, Talukder KA, Faruque AG. Fecal Markers of Environmental Enteropathy are Associated with Animal Exposure and Caregiver Hygiene in Bangladesh. *American Journal of Tropical Medicine and Hygiene*. 2015;93(2):269.

44. George CM, Oldja L, Biswas S, Perin J, **Lee GO**, Kosek M, Sack RB, Ahmed S, Haque R, Parvin T, Azmi IJ, Bhuyian SI, Talukder KA, Mohammad S, Faruque AG. Geophagy is associated with environmental enteropathy and stunting in children in rural Bangladesh. *American Journal of Tropical Medicine and Hygiene*. 2015;92(6):1117.
45. The MAL-ED Network Investigators. The MAL-ED study: a multinational and multidisciplinary approach to understand the relationship between enteric pathogens, malnutrition, gut physiology, physical growth, cognitive development, and immune responses in infants and children up to 2 years of age in resource-poor environments. *Clinical Infectious Disease*. 2014;59 Suppl 4:S193.
46. Kosek M, Guerrant RL, Kang G, Bhutta Z, Yori PP, Gratz J, Gottlieb M, Lang D, Lee G, Haque R, Mason CJ, Ahmed T, Lima A, Petri WA, Houpt E, Olortegui MP, Seidman JC, Mduma E, Samie A, Babji S. Assessment of environmental enteropathy in the MAL-ED cohort study: theoretical and analytic framework. *Clinical Infectious Disease*. 2014;59 Suppl 4:S239.
47. Yori PP, **Lee GO**, Olórtégui MP, Chávez CB, Flores JT, Vasquez AO, Burga R, Pinedo SR, Asayag CR, Black RE, Caulfield LE, Kosek M. Santa Clara de Nanay: the MAL-ED cohort in Peru. *Clinical Infectious Disease*. 2014;59 Suppl 4:S310.
48. **Lee GO**, Paredes Olortegui M, Peñataro Yori P, Black RE, Caulfield L, Banda Chavez C, Hall E, Pan WK, Meza R, Kosek M. Effects of Shigella-, Campylobacter- and ETEC-associated diarrhea on childhood growth. *Pediatric Infectious Disease Journal*. 2014;33(10):1004.
49. **Lee GO**, Kosek P, Lima AA, Singh R, Yori PP, Olortegui MP, Lamsam JL, Oliveira DB, Guerrant RL, Kosek M. Lactulose: mannitol diagnostic test by HPLC and LC-MSMS platforms: considerations for field studies of intestinal barrier function and environmental enteropathy. *Journal of Pediatric Gastroenterology and Nutrition*. 2014;59(4):544.
50. **Lee GO**, Paredes Olortegui M, Rengifo Pinedo S, Ambikapathi R, Peñataro Yori P, Kosek M, Caulfield LE. Infant feeding practices in the Peruvian Amazon: implications for programs to improve feeding. *Revista Panamericana de Salud Publica*. 2014;36(3):150.
51. **Lee GO**, Peñataro Yori P, Paredes Olortegui M, Caulfield LE, Sack DA, Fischer-Walker C, Black RE, Kosek M. An instrument for the assessment of diarrhoeal severity based on a longitudinal community-based study. *BMJ Open*. 2014;4(6):e004816.
52. Platts-Mills JA, Liu J, Gratz J, Mduma E, Amour C, Swai N, Taniuchi M, Begum S, Peñataro Yori P, Tilley DH, **Lee GO**, Shen Z, Whary MT, Fox JG, McGrath M, Kosek M, Haque R, Houpt ER. Detection of Campylobacter in stool and determination of significance by culture, enzyme immunoassay, and PCR in developing countries. *Journal of Clinical Microbiology*. 2014;52(4):1074.
53. Bartelt LA, Lima AA, Kosek M, Peñataro Yori P, **Lee GO**, Guerrant RL. "Barriers" to child development and human potential: the case for including the "neglected enteric protozoa" (NEP) and other enteropathy-associated pathogens in the NTDs. *PLoS Neglected Tropical Diseases*. 2013;7(4):e2125.
54. Kosek M, Haque R, Lima A, Babji S, Shrestha S, Qureshi S, Amidou S, Mduma E, **Lee GO**, Yori PP, Guerrant RL, Bhutta Z, Mason C, Kang G, Kabir M, Amour C, Bessong P, Turab A, Seidman J, Olortegui MP, Quetz J, Lang D, Gratz J, Miller M, Gottlieb M. Fecal markers of intestinal inflammation and permeability associated with

the subsequent acquisition of linear growth deficits in infants. *American Journal of Tropical Medicine and Hygiene*. 201;88(2):390.

55. **Lee GO**, Pan W, Peñataro Yori P, Paredes Olortegui M, Tilley D, Gregory M, Oberhelman R, Burga R, Chavez CB, Kosek M. Symptomatic and asymptomatic *Campylobacter* infections associated with reduced growth in Peruvian children. *PLoS Neglected Tropical Diseases*. 2013;7(1):e2036.

56. **Lee GO**, Yori P, Olortegui MP, Pan W, Caulfield L, Gilman RH, Sanders JW, Delgado HS, Kosek M. Comparative effects of vivax malaria, fever and diarrhoea on child growth. *International Journal of Epidemiology*. 2012;41(2):531.

57. **Lee GO**, Cama V, Gilman RH, Cabrera L, Saito M, Checkley W. Comparison of two types of epidemiological surveys aimed at collecting daily clinical symptoms in community-based longitudinal studies. *Annals of Epidemiology*. 2010;20(2):151.

Corporate Authorships: I am a named 'MAL-ED' Network Investigator. Therefore, publications written by 'The MAL-ED Network Investigators' are linked to my name on PubMed. There are 2 papers ascribed to the MAL-ED Network Investigators to which I made significant direct contributions, and are therefore count among my publications above.

Full publication list:

https://www.ncbi.nlm.nih.gov/myncbi/1hMoE8PB5_KA3/bibliography/public/

E. Abstracts

1. **Lee GO**, Cevallos W, Uruchima J*, Andrade P, Pallares M, Van Engen A, Trueba G, Eisenberg JNS, Coloma J. "Research response to the COVID-19 pandemic and food insecurity in northern, coastal Ecuador", American Society for Tropical Medicine and Hygiene. Online. 2021. (Poster).
2. **Lee GO**, Larson PS, Warmanen P*, Cevallos W, Eisenberg JNS. "Socioeconomic measurement and change across rural and urban communities in Ecuador: implications for public health. American Society for Tropical Medicine and Hygiene". Online. 2021. (Poster).
3. Ballard, A, Alban, VM, Jesser K, Trueba G, **Lee GO**, Eisenberg JNS, Caruso B, Levy K. "Child exposure to zoonotic enteropathogens in coastal Ecuador: a mixed methods study". UNC Water and Health. Online. 2021. (Poster).
4. **Lee GO**, Caulfield LE, Paredes-Olortegui M, Penataro-Yori P, Sigas Salas M, Kosek MN. "Nutrients Intakes from Complementary Foods Are Associated with the Cardiometabolic Profile of 3-5-Year-Old Peruvian Amazonian Children". Meeting of the American Society of Nutrition. Online. 2021. (Poster).
5. **Lee GO**, McCormick BJJ, Penataro-Yori P, Paredes-Olortegui M, Caulfield LE, Kosek MN. "Bimodal dynamics in short-term growth among Peruvian infants at risk of growth-faltering". Meeting of the American Society of Nutrition. Online. 2021. (Poster).
6. Uruchima J*, **Lee GO**, Jones AD, Castro N, Anchundia-Ortega A, Eisenberg JNS. "Risk factors for infant feeding practices along a rural-urban gradient in coastal Esmeraldas province, Ecuador". Meeting of the American Society of Nutrition. Online. 2021. (Poster).
7. Sosa-Moreno AS*, **Lee GO**, Van Engen A, Sun K*, Uruchima J, Kwong K, Ludwig-Borycz E**, Caruso B, Cevallos W, Levy K, Eisenberg JNS. Exposure to fecal pathogens among infants in urban Ecuador: development of a structured observation instrument.

Meeting of the American Society of Tropical Medicine and Hygiene. Online. 2020. (Poster).

8. Uruchima J*, Anchundia A, Reynolds E*, Castro N, **Lee GO**. “Application of the 24HR in pregnant women and breastfeeding infants, using Open Data Kit software”. Oral presentation. International Food Security and Nutrition conference. Online. 2020. (Presentation).
9. Espira L*, **Lee GO**, Gesesse B, Baye K, Jones AD, Love N, Eisenberg KNS. “Comparison of Host Fecal mRNAs and Stool Inflammation Biomarkers in the Evaluation of Environmental Enteric Dysfunction (EED) in an Urban Ethiopian Infant Cohort”. Meeting of the American Society of Tropical Medicine and Hygiene. Online. 2020. (Poster).
10. Boerger SN*, Katzelnick LC, Coloma J, Cevallos V, **Lee GO**, Eisenberg JNS. “Urbanicity drivers of dengue transmission across Ecuador, 2015-2016”. Meeting of the American Society of Tropical Medicine and Hygiene. Online. 2020. (Poster).
11. Uruchima J*, Márquez S*, Van Engen A, Cevallos W, Lee GO, Trueba G, Trostle J, Coloma J, Eisenberg JNS. “A novel multi-level community-based active surveillance system to detect dengue in Northern Ecuador”. Meeting of the American Society of Tropical Medicine and Hygiene. Online. 2020. (Poster).
12. **Lee GO**, Gutierrez C*, Jones A, Castro N, Cevallos W, Eisenberg JNSE. “Double Burden of Malnutrition in Rural Ecuador: Adult Overweight and Child Stunting Co-Occur at the Community but Not the Household Level (P10-075-19)”, Meeting of the American Society of Nutrition. Baltimore, MD. 2019. (Poster).
13. **Lee GO**, Paz-Soldan V, Gomez A, Villaizan K, Riley-Powell AR, Tarazona C, Ambikapathi R, Ortiz K, Comina G, Hernandez G, Naik N, Oberhelman R, Ugarte-Gil C. “Food security and dietary intake of tuberculosis patients in Lima, Peru”. Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
14. **Lee GO**, Comina G, Hernandez G, Naik N, Coronel J, Ticona T, Gayoso O, Proano A, Zimic M, Evans C, Gilman RH, Paz-Soldan V, Oberhelman R. “The association of cough frequency with the microbiological dynamics of tuberculosis in patients with active pulmonary tuberculosis”. Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
15. O'Neal C, Jensen K, Naik NS, Riley-Powell AR, Salmon-Mulanovich G, **Lee GO**. “Small scale migration along the interoceanic highway in Madre de Dios, Peru: an exploration of community perceptions and dynamics due to migration”. Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
16. Riley-Powell AR, Naik NS, Jensen K, Salmon-Mulanovich G, **Lee GO**. “An examination of the barriers and enablers to health and wellbeing in the communities along the interoceanic highway in Madre de Dios, Peru”. Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
17. Naik NS, **Lee GO**, Comina G, Hernandez G, Coronel J, Gayoso J. “Association between self-reported symptoms with objective cough and dynamic mycobacterial microbiology in patients with active pulmonary tuberculosis”. Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
18. Naik NS, **Lee GO**, Comina G, Hernandez G, Evans C, Datta S, Ticona E. “Evaluation of a low-cost air sampling system for the detection of mycobacterium tuberculosis in coughing patients”. Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).

19. Comina G, Hernandez GC, **Lee GO**, Naik N, Ticona E, Gayoso O, Zimic M. "Use of an unmodified office scanner for digitalization of chest x-ray films from tuberculosis patients". Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
20. Kraay ANM, Ionides EL, **Lee GO**, Eisenberg JNS. "Effect of Rotarix Vaccination in Rural, Coastal Ecuador". Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2017. (Poster).
21. **Lee GO**, Kosek M, Olortegui MP, Yori PP, Caulfield LE. "Infectious disease and inflammation in the first 24 months of life and emerging risk factors for metabolic syndrome in Peruvian Infants". American Society of Nutrition. San Diego, CA. 2016. (Poster)
22. George CM, Oldja L, Biswas S, Perin J, **Lee GO**, Kosek M, Sack B. "Geophagy is associated with environmental enteropathy and impaired growth in children in rural Bangladesh". Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2016. (Presentation)
23. **Lee GO**, Richard S, Kang G, Houpt E, Seidman J, Pendergast L. "A comparison of diarrheal severity scores in a multisite community- based study". Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA. 2016. (Presentation).
24. George CM, Oldja L, Biswas S, Perin J, **Lee GO**, Ahmed S, Haque R. "Fecal markers of environmental enteropathy are associated with animal exposure and caregiver hygiene in rural Bangladesh". Meeting of the American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2015. (Presentation)
25. **Lee GO**, Yori PP, Kosek M. "Intestinal inflammation and altered bone metabolism in Peruvian infants". American Society of Tropical Medicine and Hygiene. Philadelphia, PA. 2015. (Poster).
26. Ambikapathi R, Rothstein J, Paredes Olortegui M, **Lee GO**, Kosek M, Caulfield LE. "Mixed methods approach to characterize longitudinal food insecurity and coping strategies in the Peruvian Amazon". American Society of Nutrition. San Diego, CA. 2016. (Presentation).
27. **Lee GO**. "Effect of Vivax Malaria Infection on Growth among Children in the Peruvian Amazon". Delta Omega Competition. Global Disease Epidemiology and Control Program winner. Baltimore, MD. 2010. (Poster)
28. **Lee GO**. "The Effects of "Invasion" on Early Child Health". Johns Hopkins University Program in Latin American Studies: Mobility and Exchange in Latin America: Past and Present. Baltimore, MD. 2014. (Presentation)
29. **Lee GO**. "Validation of Commercial PDA systems for Community Studies". International Conference for Global Health, New Investigator in Global Health scholarship recipient. Washington DC. 2009. (Presentation).
30. Shah SK, **Lee GO**. "Trade and Nutrition: Consequences of Free Trade Agreements in Peru, Chile and Mexico". APHA. San Diego, CA. 2008. (Poster)

PRESENTATIONS: *(Please list in either chronological order with newest or most current first OR in reverse chronological order, as desired)*

1. **Lee GO**, Uruchima J, Anchundia AO, Reynolds E, Castro NM. Métodos para caracterizar el estado nutricional y la dieta en niños de 0 a 24 meses: un estudio de cohorte. Nutrition Department Colloquium Series, Universidad San Francisco de Quito. December 2020. (Online).
2. **Lee GO**. Social connectedness is associated with food security among Peruvian Amazonian communities. Fogarty Global Health Fellows & Scholars Program Orientation. National Institutes of Health. July 2019.
3. **Lee GO**, Paredes-Olortegui M, Rengifo S, Ambikapathi R, Yori PP, Kosek M, Caulfield LE. Prácticas de alimentación de lactantes en la Amazonía Peruana: implicaciones para los programas de mejora de la alimentación. Meeting of the Instituto Nacional de Salud del Niño (INSN), Lima, Perú, 2015. (Invited Presentation).
4. **Lee GO**, Paredes-Olortegui M, Yori PP, Black RE, Caulfield LE, Chavez CB, Hall E, Pan WK, Meza R, Kosek M. Diarreas de Shigella, Campylobacter, y ETEC y su Asociación con el Crecimiento Infantil. Meeting of the Instituto Nacional de Salud del Niño (INSN), Lima, Peru, 2015. (Invited Presentation).
5. **Lee GO**, Early childhood enteric infections as a risk factor for later chronic disease. The University of Cayetano Heredia- School of Tropical Medicine, Lima, Peru, 2015 (Invited Presentation).