

## **Lindsey Mina Locks**

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Boston University College of Health and Rehabilitation Sciences: Sargent College  
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Boston University School of Public Health  
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801 Massachusetts Avenue, Boston, MA 02118

### **EDUCATION**

- 2016 Doctor of Science (ScD), Harvard University: Harvard TH Chan School of Public Health, Department of Nutrition. Concentration: Nutritional Epidemiology. Minors: Biostatistics and Epidemiology.
- 2011 Master of Public Health (MPH), Columbia University: Mailman School of Public Health, Department of Epidemiology. Concentration: Global Health.
- 2007 Bachelor of Arts (BA), Princeton University: Department of History. Certificate in African Studies.

### **ACADEMIC AND PROFESSIONAL APPOINTMENTS**

- 2024-present Core Faculty, Human Capital Initiative (HCI), The Boston University Global Development Policy Center (GDP Center)
- 2022-present Faculty Governing Board, Institute for Early Childhood Well-Being, Wheelock College of Education & Human Development, Boston University
- 2022-present Affiliate Faculty, Center on Forced Displacement, Boston University
- 2018-present Assistant Professor, Department of Global Health, Boston University School of Public Health
- 2018-present Assistant Professor, Tenure Track, Boston University: Sargent College of Health and Rehabilitation Sciences, Department of Health Sciences
- 2017-2018 Lecturer, Tufts University: School of Arts and Sciences, Department of Community Health
- 2016-2018 Research Consultant, United Nations Children's Fund (UNICEF), Nutrition Section, Headquarters, New York, New York.
- 2016-2018 Postdoctoral Research Fellow, Harvard University: Harvard TH Chan School of Public Health, Department of Nutrition
- 2010-2011 Programme Associate, Helen Keller International, Kathmandu, Nepal & New York, New York
- 2008-2009 Nutrition Coordinator, Clinton Foundation HIV/AIDS Initiative, Lindi & Mtwara Regions, Tanzania
- 2007-2008 Reports and Communications Officer, World Food Programme, Regional Office for East and Central Africa, Kampala Uganda,

### **PUBLICATIONS**

#### **Published peer-reviewed articles:**

*\*Indicates undergraduate, master's, or medical student co-author*

*\*\*Indicates that both authors contributed equally.*

43. Sinha, P., Bhargava, M., Carwile, M.E., Dauphinais, M.R., Tisile, P., Cintron, C., Lenart, A., Hauser, J., Oliver, M., Mehta, S., Finkelstein, J., Koura, K.G., Cegielski, J.P., Houben, R., Locks, L.M., McQuaid, F., Bhargava, A. A Roadmap for Integrating Nutrition into Tuberculosis Therapy. *Lancet Global Health*, accepted for publication, 2025.
42. **Locks, L.M.**, Chembe, M., Bilima-Mulenga, T., Lauer, J.M., Sizakawe, D., Henderson, S., Rockers, P.C., Parkerson, D., Fink, G. Predictors of stunting and pathway analysis for linear growth among children 2-3 years of age after a trial of small-quantity lipid-based nutrient supplements and home-installed growth charts in three districts in Zambia. *Journal of Nutrition*, 2024.
41. Lauer, J.M., Pyykkö, J., Chembe, M., Bilima-Mulenga, T., Sizakawe, D., Chibwe, D., Henderson, S., Parkerson, D., Leppänen, J.M., Fink, G., Locks, L.M.\*\*, Rockers, P.C.\*\* Markers of environmental enteric dysfunction are associated with poor growth and developmental outcomes among young children in Lusaka, Zambia. *Journal of Pediatrics*, 2024.
40. **Locks, L.M.**, Parakh, A\*.... The ABCDs of nutritional assessment in infectious diseases research. Accepted for publication in *Journal of Infectious Diseases*, 2024.
39. Varsha S. Dhurde, V.S., Patel, A.B., **Locks, L.M.**, Hibberd, P.L. Anemia prevalence, its determinants and profile of micronutrient status among rural adolescent girls aged 14-19 years of Nagpur district, Maharashtra. *Public Health Nutrition*, 2024.
38. Lauer, J.M., Patel, A., Bhaise, S., Dhurde, V., Gugel, A\*, Shah, M\*, Goghari, A., Hibberd, P.L., **Locks, L.M.** Maternal anemia during pregnancy and infant birth outcomes: a prospective cohort study in Eastern Maharashtra, India. *Current Developments in Nutrition*, 2024.
37. **Locks, L.M.**, Bhaise, S., Dhurde, V., Gugel, A\*, Lauer, J.M., Shah, M\*, Goghari, A., Hibberd, P.L., Patel, A. (2024). The prevalence of anemia during pregnancy and its correlates vary by trimester and hemoglobin assessment method in Eastern Maharashtra, India. *Maternal & Child Nutrition*, 2024.
36. Fink, G., **Locks, L. M.**, Lauer, J. M., Chembe, M., Henderson, S., Sikazwe, D., Bilima-Mulenga, T., Parkerson, D., & Rockers, P. (2024). The Impact of Growth Charts and Small-Quantity Lipid-Based Nutritional Supplements (SQ-LNS) on Child Growth in Zambia: A Four Arm Parallel Open Label Cluster Randomized Controlled Trial. *BMJ Global Health*, 2024.
35. **Locks, L. M.**, Newell, K.\* B., Imohe, A., Moloney, G. M., Shaker-Berbari, L., Paudyal, N., & Jefferds, M. E. D. (2023). The effect of interventions distributing home fortification products on infant and young child feeding (IYCF) practices: A systematic narrative review. *Maternal and Child Nutrition* (Vol. 19, Issue 3), 2023.
34. Buonomo, G.\* , Acuña-Villaorduna, C., Poongothai, V., Dharmalingam, M., Cintron, C., Dauphinais, M., Babu, S. P., **Locks, L. M.**, Sarkar, S., Salgame, P., Hochberg, N. S., Lakshminaryanan, S., Narasimhan, P. B., & Sinha, P. (2023). A micro-costing analysis of nutritional support for persons with TB and their families in India. *Public Health Action*, 13(2).
33. **Locks, L. M.**, Paudyal, N., Lundsgaard, S.\*, Thapa, L. B., Joshi, N., Mei, Lz. Z., Whitehead, R. D., & Jefferds, M. E. D. (2023). The Prevalence of Anemia in Children Aged 6–23 Months and its Correlates Differ by District in Kapilvastu and Achham Districts in Nepal. *Current Developments in Nutrition*, 7(5).

32. Fink, G., Lauer, J.M., **Locks, L.M.**, Chembe, M., Henderson, S., Kumwenda, C., Sikazwe, D., Falgas Bague, I., Bilima-Mulenga, T., Parkerson, D., Rockers, P., Leppänen, J., Pyykkö, J. (2023). Study protocol: The impact of growth charts and nutritional supplements on child growth in Zambia (ZamCharts): A cluster randomized controlled trial.
31. Carwile, M., Cintron, C., Jain, K., Buonomo, G.\*, Oliver, M., Dauphinais, M., Narasimhan, P. B., Prakash Babu, S., Sarkar, S., **Locks, L.**, Kulatilaka, N., Hochberg, N., Lakshminarayanan, S., & Sinha, P. (2023). Not business as usual: Engaging the corporate sector in India's TB elimination efforts. In *Global Public Health* (Vol. 18, Issue 1).
30. **Locks, L. M.**, Shah, M.\*, Bhaise, S., Hibberd, P. L., & Patel, A. (2022). Assessing the Diets of Young Children and Adolescents in India: Challenges and Opportunities. In *Frontiers in Pediatrics* (Vol. 10).
29. Sinha, P., Lakshminarayanan, S. L., Cintron, C., Narasimhan, P. B., **Locks, L. M.**, Kulatilaka, N., Maloomian, K., Prakash Babu, S., Carwile, M. E., Liu, A. F., Horsburgh, C. R., Acuna-Villaorduna, C., Linas, B. P., & Hochberg, N. S. (2022). Nutritional Supplementation Would Be Cost-Effective for Reducing Tuberculosis Incidence and Mortality in India: The Ration Optimization to Impede Tuberculosis (ROTI-TB) Model. *Clinical Infectious Diseases*, 75(4).
28. **Locks, L. M.**, Patel, A., Katz, E.\*, Simmons, E., & Hibberd, P. (2021). Seasonal trends and maternal characteristics as predictors of maternal undernutrition and low birthweight in Eastern Maharashtra, India. *Maternal & Child Nutrition*, 17(2), e13087.
27. Cintron, C., Narasimhan, P. B., **Locks, L.**, Babu, S., Sinha, P., Rajkumari, N., Kaipilyawar, V., Bhargava, A., Maloomian, K., Chandrasekaran, P., Verma, S., Joseph, N., Johnson, W. E., Wanke, C., Horsburgh, C. R., Ellner, J. J., Sarkar, S., Salgame, P., Lakshminarayanan, S., & Hochberg, N. S. (2021). Tuberculosis—Learning the Impact of Nutrition (TB LION): protocol for an interventional study to decrease TB risk in household contacts. *BMC Infectious Diseases*, 21(1).
26. Addo, O. Y., **Locks, L. M.**, Jefferds, M. E., Nanama, S., Albert, B., Sandalinas, F., Nanema, A., Whitehead Jr, R. D., Mei, Z., & Clayton, H. B. (2020). Combined infant and young child feeding with small-quantity lipid-based nutrient supplementation is associated with a reduction in anemia but no changes in anthropometric status of young children from Katanga Province of the Democratic Republic of Congo.
25. Yam, D., Aluisio, A. R., Perera, S. M., Peters, J. L., Cho, D. K., Kennedy, S. B., Massaquoi, M., Sahr, F., Smit, M. A., & **Locks, L.** (2020). Association between multivitamin supplementation and mortality among patients with Ebola virus disease: An international multisite cohort study. *African Journal of Emergency Medicine*, 10(1), 23–29.
24. Addo, O. Y., Tripp, K., Nanama, S., Albert, B., Sandalinas, F., Nanema, A., Jefferds, M. E., Clayton, H. B., Whitehead Jr, R. D., Garg, A., Kupka, R., **Locks, L.M.** (2020). An Integrated Infant and Young Child Feeding and Small-Quantity Lipid-based Nutrient Supplementation Program Is Associated with Improved Gross Motor and Communication Scores of Children 6-18 Months in the Democratic Republic of Congo. *The Journal of Pediatrics*.
23. Sinha, P., Carwile, M., Bhargava, A., Cintron, C., Acuna-Villaorduna, C., Lakshminarayan, S., Liu, A. F., Kulatilaka, N., **Locks, L.**, & Hochberg, N. S. (2020). How much do Indians pay for tuberculosis treatment? A cost analysis. *Public Health Action*, 10(3).  
<https://doi.org/10.5588/pha.20.0017>
22. **Locks, L. M.**, Dahal, P., Pokharel, R., Joshi, N., Paudyal, N., Whitehead Jr, R. D., Chitekwe, S., Mei, Z., Lamichhane, B., & Garg, A. (2019). Predictors of micronutrient powder (MNP)

knowledge, coverage, and consumption during the scale-up of an integrated infant and young child feeding (IYCF-MNP) programme in Nepal. *Maternal & Child Nutrition*, 15(S5), e12712.

21. Sania, A., Sudfeld, C. R., Danaei, G., Fink, G., McCoy, D. C., Zhaozhong Z., Smith Fawzi, M.C., **Locks, L.M.**, Fawzi, W. (2019). Early life risk factors of motor, cognitive and language development: a pooled analysis of studies from low/middle-income countries. *BMJ Open*, 9(10), e026449.
20. Aluisio, A. R., Perera, S. M., Yam, D., Garbern, S., Peters, J. L., Abel, L., Cho, D. K., Kennedy, S. B., Massaquoi, M., Sahr, F., Brinkmann, S. **Locks, L.**, Liu, T., Levine, A.C. (2019). Vitamin A supplementation was associated with reduced mortality in patients with Ebola virus disease during the West African outbreak. *The Journal of Nutrition*, 149(10), 1757–1765.
19. **Locks, L. M.**, Dahal, P., Pokharel, R., Joshi, N., Paudyal, N., Whitehead, R. D., Chitekwe, S., Mei, Z., Lamichhane, B., Garg, A., & Jefferds, M. E. (2019). Changes in growth, anaemia, and iron deficiency among children aged 6–23 months in two districts in Nepal that were part of the post-pilot scale-up of an integrated infant and young child feeding and micronutrient powder intervention. *Maternal and Child Nutrition*.
18. **Locks, L. M.**, Nanama, S., Addo, O. Y., Albert, B., Sandalinas, F., Nanema, A., Whitehead, R. D., Garg, A., Kupka, R., Jefferds, M. E., & Tripp, K. (2019). An integrated infant and young child feeding and small-quantity lipid-based nutrient supplementation programme in the Democratic Republic of Congo is associated with improvements in breastfeeding and handwashing behaviours but not dietary diversity. *Maternal and Child Nutrition*.
17. Blakstad, M. M., Smith, E. R., Etheredge, A., **Locks, L. M.**, McDonald, C. M., Kupka, R., Kisenge, R., Aboud, S., Bellinger, D., Sudfeld, C. R., Fawzi, W. W., Manji, K., & Duggan, C. P. (2019). Nutritional, Socioeconomic, and Delivery Characteristics Are Associated with Neurodevelopment in Tanzanian Children. *Journal of Pediatrics*.
16. Moucheraud, C., Chandyo, R. K., Henjum, S., Strand, T. A., Ulak, M., Fawzi, W. W., **Locks, L. M.**, Webb, P., & Thorne-Lyman, A. L. (2019). Engagement in Agriculture Protects Against Food Insecurity and Malnutrition in Peri-Urban Nepal. *Current Developments in Nutrition*.
15. Syed, S., Manji, K. P., McDonald, C. M., Kisenge, R., Aboud, S., Sudfeld, C., **Locks, L.**, Liu, E., Fawzi, W. W., & Duggan, C. P. (2018). Biomarkers of systemic inflammation and growth in early infancy are associated with stunting in young Tanzanian children. *Nutrients*.
14. Hasan, S. M. T., Rahman, S., **Locks, L. M.**, Rahman, M., Hore, S. K., Saqeeb, K. N., Khan, M. A., & Ahmed, T. (2018). Magnitude and determinants of inadequate third-trimester weight gain in rural Bangladesh. *PLoS ONE*.
13. **Locks, L. M.**, Dahal, P., Pokharel, R., Joshi, N., Paudyal, N., Whitehead, R. D., Chitekwe, S., Mei, Z., Lamichhane, B., Garg, A., & Jefferds, M. E. (2018). Infant and Young Child Feeding (IYCF) Practices Improved in 2 Districts in Nepal during the Scale-Up of an Integrated IYCF and Micronutrient Powder Program. *Current Developments in Nutrition*.
12. Smith, E. R., **Locks, L. M.**, Manji, K. P., McDonald, C. M., Kupka, R., Kisenge, R., Aboud, S., Fawzi, W. W., & Duggan, C. P. (2017). Delayed Breastfeeding Initiation Is Associated with Infant Morbidity. *Journal of Pediatrics*.
11. **Lindsey M. Locks** Amal Tucker Brown, Smaila Gnegne, Noelimanjaka Ramalanjaona, Simeon Nanama, Christopher P. Duggan, Aashima Garg, I. R. (2017). The Impact of Integrated Infant and Young Child Feeding and Micronutrient Powder Intervention on Feeding Practices and Anemia in Children Aged 6–23 Months in Madagascar. *Nutrients*.

10. **Locks, L. M.**, Manji, K. P., Kupka, R., Liu, E., Kisenge, R., McDonald, C. M., Aboud, S., Wang, M., Fawzi, W. W., & Duggan, C. P. (2017). High Burden of Morbidity and Mortality but Not Growth Failure in Infants Exposed to but Uninfected with Human Immunodeficiency Virus in Tanzania. *Journal of Pediatrics*.
9. **Locks, L. M.**, Manji, K. P., McDonald, C. M., Kupka, R., Kisenge, R., Aboud, S., Wang, M., Bellinger, D. C., Fawzi, W. W., & Duggan, C. P. (2017). The effect of daily zinc and/or multivitamin supplements on early childhood development in Tanzania: results from a randomized controlled trial. *Maternal and Child Nutrition*.
8. **Locks, L. M.**, Mwiru, R. S., Mtisi, E., Manji, K. P., McDonald, C. M., Liu, E., Kupka, R., Kisenge, R., Aboud, S., Gosselin, K., Gillman, M., Gewirtz, A. T., Fawzi, W. W., & Duggan, C. P. (2017). Infant Nutritional Status and Markers of Environmental Enteric Dysfunction are Associated with Midchildhood Anthropometry and Blood Pressure in Tanzania. *Journal of Pediatrics*.
7. **Locks, L. M.**, Reerink, I., Brown, A. T., Gnegne, S., Ramalanjaona, N., Nanama, S., Duggan, C. P., & Garg, A. (2017). The impact of integrated infant and young child feeding and micronutrient powder intervention on feeding practices and anemia in children aged 6–23 months in Madagascar. *Nutrients*.
6. **Locks, L. M.**, Manji, K. P., McDonald, C. M., Kupka, R., Kisenge, R., Aboud, S., Wang, M., Fawzi, W. W., & Duggan, C. P. (2016). Effect of zinc and multivitamin supplementation on the growth of Tanzanian children aged 6-84 wk: A randomized, placebo-controlled, double-blind trial. *American Journal of Clinical Nutrition*.
5. Baidal, J. A. W., **Locks, L. M.**, Cheng, E. R., Blake-Lamb, T. L., Perkins, M. E., & Taveras, E. M. (2016). Risk factors for childhood obesity in the first 1,000 days: a systematic review. *American Journal of Preventive Medicine*, 50(6), 761–779.
4. Blake-Lamb, T. L., **Locks, L. M.**, Perkins, M. E., Woo Baidal, J. A., Cheng, E. R., & Taveras, E. M. (2016). Interventions for Childhood Obesity in the First 1,000 Days A Systematic Review. In *American Journal of Preventive Medicine*.
3. Chandyo, R. K., Henjum, S., Ulak, M., Thorne-Lyman, A. L., Ulvik, R. J., Shrestha, P. S., **Locks, L.**, Fawzi, W., & Strand, T. A. (2016). The prevalence of anemia and iron deficiency is more common in breastfed infants than their mothers in Bhaktapur, Nepal. *European Journal of Clinical Nutrition*, 70(4).
2. **Locks, L. M.**, Pandey, P. R., Osei, A. K., Spiro, D. S., Adhikari, D. P., Haselow, N. J., Quinn, V. J., & Nielsen, J. N. (2015). Using formative research to design a context-specific behaviour change strategy to improve infant and young child feeding practices and nutrition in Nepal. *Maternal & Child Nutrition*, 11(4), 882–896.
1. Henjum, S., Manger, M., Skeie, E., Ulak, M., Thorne-Lyman, A. L., Chandyo, R., Shrestha, P. S., **Locks, L.**, Ulvik, R. J., Fawzi, W. W., & Strand, T. A. (2014). Iron deficiency is uncommon among lactating women in urban Nepal, despite a high risk of inadequate dietary iron intake. *British Journal of Nutrition*. <https://doi.org/10.1017/s0007114514000592>

#### Abstracts:

\*Indicates undergraduate or master's student co-author

1. Shah, M\*, Gugel, A\*, Bhaise, S, Lauer, J Hibberd, PL, Patel, A, **Locks, LM**. The Effectiveness of the IFA Supplementation in Reducing the Prevalence of Anemia During Pregnancy Among Women in Eastern Maharashtra, India. American Society for Nutrition (ASN), 2022.

2. Gugel, A\*, Bhaise, S, Lauer, J Hibberd, PL, Patel, A, **Locks, LM.** Anemia and Iron Deficiency in the First Trimester of Pregnancy Among Women in Eastern Maharashtra, India. American Society for Nutrition (ASN), 2022.
3. **Locks L.M.,** Shrestha, R., Ghosh, S., Davis, D., Kedar B.P., Webb, P. Understanding nutrition capacities of Front Line Workers' (FLWs) in implementation of integrated nutrition programs in Nepal. Annual Scientific Symposium, Kathmandu, Nepal, 2018.
4. **Locks, L.M.,** Dahal, P., Pokharel, R., Joshi, N., Paudyal, N., Whitehead, R., Chitekwe, S., Mei, Z., Lamichhane, B., Gaarg, A., Jefferds, ME. Predictors of micronutrient powder (MNP) knowledge, coverage and consumption during the scale-up of an integrated infant and young child feeding (IYCF-MNP) program in Nepal. American Society for Nutrition, 2018.
5. **Locks, L.M.,** Mwiru R.S., Mtisi E., Manji K.P., McDonald C.M., Liu E., Kupka R., Kisenge R., Aboud S., Gosselin K., Gillman M., Gewirtz A.T., Fawzi W.W., Duggan C.P., Infant nutritional status and markers of environmental enteric dysfunction are associated with mid-childhood anthropometry and blood pressure in Tanzania. The Federation of American Societies for Experimental Biology (FASEB), 2017.
6. Baidal, J.A.W., **Locks L.M.,** Cheng E.R., Blake-Lamb T.L., Perkins M.E., Taveras E.M., Childhood Obesity Prevention in the First 1000 Days: Systematic Review of Modifiable Risk Factors from Conception to Age 2 Years. Poster abstract presentation at: The Obesity Society Annual Meeting, New Orleans, LA, 2016.
7. **Locks, L.M.,** Manji, K.P., McDonald, C.M., Kupka, R., Kisenge, R., Aboud, S., Wang, M., Fawzi, W.W., Duggan, C.P., The effect of zinc and multiple micronutrient supplements on growth in Tanzanian infants. The Federation of American Societies for Experimental Biology (FASEB) Journal, 2015.
8. Chandyo, R., Thorne-Lyman, A.L, Ulak, M., Shrestha, P, Fawzi, W.W., **Locks, L.M.,** Henjum S., Strand T., The changing dynamics of maternal nutrition in urban Nepal: findings from a longitudinal study in Bhaktapur. The Federation of American Societies for Experimental Biology (FASEB) Journal, 2014.
9. Henjum, S., Manger, M., Chandyo, R., Thorne-Lyman, A.L., Ulak, M., Skeie, E., Shrestha, P.S., **Locks, L.M.,** Ulvik, R., Fawzi, W.W., Strand, T.A., Dietary Iron Intake and Iron Status among Lactating Women in Bhaktapur, Nepal. Annals of Nutrition & Metabolism, 2013.
10. Osei, A.K., Pandey, P.R., Spiro, D., Nielson, J.N., **Locks, L.M.,** Adhikari, D., Household food insecurity is prevalent and predicts stunting among preschool children and anemia among mothers in Baitadi district of Nepal. 7th Asia Pacific Conference on Clinical Nutrition, Bangkok, Thailand, 2011.

## **INVITED PRESENTATIONS**

### **International**

- 2024 **Keynote Speaker** – 9<sup>th</sup> African Nutrition Conference (ANEC), Cape Coast, Ghana. Presentation on: Meals as Medicines: The Case for Nutrition Support in Tuberculosis Programs.
- 2023 **Invited Speaker** – Micronutrient Forum 6<sup>th</sup> Global Conference, the Hague, the Netherlands. Presentation on: The effect of interventions distributing home fortification products on infant and young child feeding (IYCF) practices: A systematic narrative review

- 2020 **Invited Speaker** – Micronutrient Forum 5<sup>th</sup> Global Conference. Virtual conference (originally planned for Bangkok, Thailand). Presentation on: Effectiveness studies on integrated Infant & Young Child Feeding and home-based fortification programs in Nepal, Madagascar & Uganda.
- 2019 **Invited Speaker** – Assessment of Diet and Nutrition in Resource Limited Settings. Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry, India.
- 2018 **Poster Presentation** – Nutrition Innovation Lab Symposium in Kathmandu, Nepal. Poster on ‘Understanding nutrition capacities of Front Line Workers’ (FLWs) in implementation of integrated nutrition programs in Nepal.
- 2016 **Invited Speaker** – Writing and Publishing of Peer-Review Research Papers in Global Nutrition and Child Health. United Nations Children’s Fund (UNICEF), Kathmandu, Nepal.
- 2016 **Invited Speaker** – Micronutrient Forum 4<sup>th</sup> Global Conference: Positioning Women’s Nutrition at the Centre of Sustainable Development, Cancun, Mexico. Presentation on: The effect of multiple micronutrient and zinc supplements on early childhood development in Tanzanian infants.

### National

- 2023 **Invited Speaker** – University of California, Davis Institute for Global Nutrition Seminar. Presentation on Meals as Medicines – Nutrition and Tuberculosis
- 2022 **Invited Speaker** – The Pennsylvania State University (Penn State) Nutritional Sciences Colloquium. Presentation on Meals as Medicines – Nutrition and Tuberculosis
- 2017 **Invited Speaker** – Emory University: Rollins School of Public Health, Global Health Seminar Series, Atlanta, Ga. Presentation on: The Global Scale-up of Interventions Using Micronutrient Powders: From Efficacy Trials to Implementation.
- 2017 **Poster Presentation** – American Society for Nutrition (ASN) Conference. Chicago, Ill. Presentation on Predictors of micronutrient powder (MNP) knowledge, coverage & consumption during the post-pilot scale-up of an integrated infant and young child feeding-MNP (IYCF-MNP) program in Nepal
- 2015 **Poster Presentation** – Experimental Biology Conference. Boston, MA. Presentation on the Effect of Multiple Micronutrients on Child Growth in Tanzania.

### Local/Regional

- 2022 Panelist – Boston University “Nutrition is Medicine: Epidemiology to Global Application”.
- 2022 Guest Lecturer – Boston University School of Public Health. Lecture topic “Undernutrition in women in children in Low- and Middle-Income Countries” for graduate course on Nutritional Epidemiology
- 2022 Guest Lecturer – Boston University Sargent College of Health and Rehabilitation Sciences. Lecture topic “Undernutrition in women in children in Low- and Middle-Income Countries” for graduate course on the life-cycle of human nutrition.
- 2021 Guest Lecturer – Boston University School of Public Health. Lecture topic “Undernutrition in women in children in Low- and Middle-Income Countries” for graduate course on Nutritional Epidemiology

- 2021 Guest Lecturer – Boston University Sargent College of Health and Rehabilitation Sciences. Lecture topic “Undernutrition in women in children in Low- and Middle-Income Countries” for graduate course on the life-cycle of human nutrition.
- 2019 Panelist – Boston University Global Programs International Education Week Panel on “The Future of Food and its Global Impact”.
- 2019 Guest Lecturer – Harvard TH Chan School of Public Health. Lecture Topic: “Implementation Science in Nutrition” for graduate course on “Nutrition and Global Health”
- 2018 Guest Lecturer – Boston University School of Public Health. Lecture Topic: “Evaluation of an Infant and Young Child Feeding and Micronutrient Powder Intervention in Nepal” for graduate course on “Monitoring and Evaluation of Global Health Programs”
- 2018 Guest Lecturer – Harvard TH Chan School of Public Health. Lecture Topic: “Implementation Science in Nutrition” for graduate course on “Nutrition and Global Health”
- 2018 Invited Speaker – Boston University: College of Health and Rehabilitation Colleges: Sargent College. Presentation on: The Global Scale-up of Interventions Using Micronutrient Powders: From Efficacy Trials to Implementation.
- 2018 Invited Speaker – Boston University: College of Health and Rehabilitation Colleges: Sargent College. Presentation on: The Global Scale-up of Interventions Using Micronutrient Powders: From Efficacy Trials to Implementation.
- 2018 Invited Speaker – Tufts University: Friedman School of Nutrition Science and Policy. Presentation on: The nutrition of women and children in low resource settings.
- 2017 Guest Lecturer – Merrimack College, North Andover, MA. Lecture topic: ‘Culture and Health: Infant feeding in Nepal’ for undergraduate ‘Introduction to Global Health’ course
- 2017 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Food Security, Nutrition and International Development’ for undergraduate ‘Nutrition & Global Health’ course.
- 2016 Invited Speaker – Nutrition & Global Health Symposium: Foundations for the Future - Approaches to Advancing Global Nutrition and Early Childhood Development, Harvard TH Chan School of Public Health, Boston, MA. Presentation on: The effect of multiple micronutrient and zinc supplements on early childhood development in Tanzanian infants.
- 2016 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Infant and young child feeding, formative research methods and behavior change theory’ for undergraduate course on ‘Nutrition & Global Health’
- 2015 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Introduction to Epidemiology and Biostatistics’ for undergraduate course on ‘Nutrition & Global Health’
- 2015 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Infant and young child feeding, formative research methods and behavior change theory’ for undergraduate course on ‘Nutrition & Global Health’
- 2015 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Reviewing Key Concepts in Global Health and Nutrition’ for undergraduate course on ‘Nutrition & Global Health’

- 2014 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Infant and young child feeding, formative research methods and behavior change theory’ for undergraduate course on ‘Nutrition & Global Health’
- 2013 Guest Lecturer – Harvard University: Harvard TH Chan School of Public Health, Boston, MA. Lecture topic: ‘Nutrition in Global Health’ for graduate student course on ‘Principles of Nutrition’.
- 2013 Guest Lecturer – Harvard University: College of Arts and Sciences, Cambridge, MA. Lecture topic: ‘Infant and young child feeding, formative research methods and behavior change theory’ for undergraduate course on ‘Nutrition & Global Health’
- 2013 Invited Speaker – The Future of Food and Nutrition Conference, Tufts University, Boston, MA. Presentation on: Using formative research to design a context-specific behaviour change strategy to improve infant and young child feeding practices and nutrition in Nepal.
- 2012 Invited Speaker – Nutrition Seminar, Harvard TH Chan School of Public Health, Boston, MA. Presentation on: Dietary Diversity Scores: a simplified measure of nutrient adequacy?

## **FUNDED RESEARCH: GRANTS, CONSULTANCIES & FELLOWSHIPS**

### **Active and recently completed funded research:**

#### **Evaluation Of “LEAD” (Learn, Eat and Develop) Intervention for Mothers to Improve Early Childhood Development and Reduce Stunting in Infants of Urban Slums of Nagpur, Wardha and Belagavi districts in India.**

Role: Co-Investigator (PI: Patel, Lata Medical Research Foundation, India)

Sponsor Name: **DBT/Wellcome Trust India Alliance**

Goal: To implement and evaluate an integrated intervention LEAD (Learn Eat & Develop) that will comprise of 1) a previously developed M- SAKHI App (an app for community health workers to promote on nutrition and health in women and children) adapted for use by urban slum anganwadi workers; 2) phone counselling by auxiliary nurse midwives; and 3) a parenting curriculum of early childhood education and care (ECEC) using local tools that was co-developed with, and will be delivered by, Anganwadi workers.

Dates of Project: January 1, 2024-December 31, 2029.

#### **Exploring the Potential for Small Quantity Lipid-Based Nutrient Supplements (SQ-LNS) Programming in Displaced Populations**

Role: Co-Principal Investigator (Co-PIs Hamer & Lauer)

Sponsor Name: BU Center for Forced Displacement

Goal: To conduct a scoping review of the use of Small Quantity Lipid-Based Nutrient Supplements (SQ-LNS) and other home fortificants in humanitarian settings, and to conduct formative research to develop a randomized controlled trial of SQ-LNS in collaboration with implementing partners working in humanitarian emergencies.

Dates of project: January 1, 2024 – December 31, 2024

#### **Micronutrients, biomarkers of gut health and infant growth in Zambia**

Role: Lead Principal Investigator

Sponsor Name: BU Clinical & Translational Science Institute (CTSI)

Goal: To assess the relationship between biomarkers of infant gut health (environmental enteric dysfunction and the gut microbiome) with infant stunting in children participating in a randomized controlled trial of home-installed growth charts and small-quantity lipid-based nutrient supplements.

Dates of project: April 1, 2022 – March 31, 2024

### **Impact of Growth Charts and Nutritional Supplements on Child Growth in Zambia**

Role: Co-Investigator (PI: Fink, Swiss TPH)

Sponsor name: Sint Antonius Stichting

Goal: A community-based cluster randomized controlled trial testing whether home-installed growth charts and/or small-quantity lipid-based nutrient supplements improve linear growth and prevent stunting in Zambian infants and young children.

Dates of project: December 2019 – December 2023

### **The Impact of Growth Charts and Nutritional Supplements on micronutrient status and biomarkers of gut health in Zambia**

Role: Co-Investigator (PI: Parkerson, Innovations for Poverty Action)

Sponsor name: Children's Relief International

Goal: To assess the effect of home-installed growth charts and/or small-quantity lipid-based nutrient supplements on micronutrient status and biomarkers of environmental enteric dysfunction .

Dates of project: December 2021 – August 31, 2024

### **Tuberculosis: Learning the Impact of Nutrition (TB-LION) in India**

Role: Co-Investigator (PI: Sinha, Boston Medical Center)

Sponsor name: Warren Alpert Foundation

Goal: An intervention study to determine whether a 6-month daily food ration and/or deworming medication improves immune response to TB infection in household contacts of patients with active TB disease in Pondicherry, India

Dates of project: January 1, 2018 – December 31, 2024

### **Tuberculosis - Learning the Effect of Parasites and Reinforcing Diets (TB-LEOPARD)**

Role: Co-Investigator (PI: Sinha, Boston Medical Center)

Sponsor name: Burroughs Wellcome

Goal: To assess the burden of intestinal parasitic infections among persons living with pulmonary tuberculosis (TB); whether intestinal parasitic infections alter TB treatment outcomes, including speed of sputum clearance and treatment outcomes; the impact of malnutrition on speed of sputum clearance and TB treatment outcomes; and whether nutritional supplementation improves speed of sputum clearance and treatment outcomes in Pondicherry, India

Dates of project: August 2021 – December 2025

### **Completed funded research (post-doctoral degree only):**

#### **Micronutrients Deficiencies and Infant and Young Child Feeding**

Role: Principal Investigator

Sponsor name: United States Centers of Disease Control (CDC)/McKing Consulting Corporation

Goals: To conduct a systematic review of the effect of interventions distributing home-based fortification products on infant and young child feeding practices, and to assess the determinants of anemia in two districts in Nepal

Dates of Project: April 1, 2022 – September 30, 2022

**Iron-deficiency and non-iron-deficiency anemia in pregnancy and infant health in Eastern Maharashtra, Indi**

Role: Principal Investigator

Sponsor name: Thrasher Research Fund

Goals: To longitudinally enroll women pregnant in the 1<sup>st</sup> trimester in Nagpur, India, and assess the association between anemia and anemia-related biomarkers and birth outcomes

Dates of Project: April 1, 2022 – September 30, 2022

**VITAL-TB (Vitamins And Latency in Tuberculosis) in India**

Role: Co-Investigator (PI: Hochberg)

Sponsor name: Partnership 2020: Leveraging US-India Cooperation in Higher Education opportunity, a collaborative agreement between University of Nebraska at Omaha (UNO) and US Department of State (DOS).

Dates of project: January 1 2020-December 31, 2020

**Scaling up Nutritional Interventions to Stop Tuberculosis in India**

Role: Co-Principal Investigator

Sponsor name: BU Foundation-India SEED Fund

Project dates: 2019-2020

**Implementation Research on Home Fortification Programs & Evaluation of Programs Implemented in Madagascar, the Democratic Republic of Congo & Nepal**

Role: Principal Investigator

Sponsor name: United Nations Children's Fund (UNICEF)

Project Dates: July 2016- June 2018

**PEER REVIEWING (SCIENTIFIC GRANTS ONLY)**

March 2024 Ad hoc reviewer - Health, Behavior & Context Study Section, Eunice Kennedy Shriver National Institutes of Child Health (NICHD)

October 2023 Ad hoc reviewer Auckland Medical Research Foundation (New Zealand)

June 2023 Ad hoc reviewer - Health, Behavior & Context Study Section, Eunice Kennedy Shriver National Institutes of Child Health (NICHD)

April 2023 Ad hoc Reviewer – Medical Research Council (United Kingdom)

July 2022 Ad hoc reviewer – Special Emphasis Panel on ‘Elucidating the Role of Nutrition in Care and Development of Preterm Infants (R01 Clinical Trial Optional)’ Eunice Kennedy Shriver National Institutes of Child Health (NICHD) Health, Behavior, and Context Study Section

March 2022 Ad hoc reviewer – Special Emphasis Panel on ‘Human Milk as a Biological System (R01 Clinical Trial Optional)’ Eunice Kennedy Shriver National Institutes of Child Health (NICHD)

Dec. 2018 Ad hoc Reviewer – Medical Research Council (United Kingdom)

### **HONORS AND DISTINCTIONS**

2016 Harvard University: Derek Bok Center - Distinction in Teaching  
2015 Harvard University: Derek Bok Center - Distinction in Teaching  
2014 Harvard University: Derek Bok Center - Distinction in Teaching  
2011 Columbia University: Mailman School of Public Health - Sidney Kark Award in Epidemiology

### **PROFESSIONAL SOCIETIES & EXTERNAL SERVICE**

2011-present American Society for Nutrition (ASN), member

- **Chair Elect (2024-2026), Global Nutrition Council (GNC)**, American Society for Nutrition (ASN), 2024-2026
- **Early Career Representative (2019-2022)**, Global Nutrition Council (GNC), American Society for Nutrition (ASN)

2018-present International Society for Research in Human Milk & Lactation (ISHMRL), member  
2018-present Society for Implementation Science in Nutrition

- Working group member, Implementation Science research methods working group

2020-present International Union Against Tuberculosis and Lung Disease (The Union)

- Working group member, Undernutrition in TB working group

2022-present Working group member, Operational research working group, Small-quantity lipid-based nutrient supplements (SQ-LNS) Task force