ANDREA L. S. BULUNGU, PH.D., MPH

Kampala, Uganda

Telephone: +1 202 250 4399 or +256 758 162 895

E-mail: andrealspray@gmail.com

EDUCATION

2022 Ph.D.

The London School of Hygiene & Tropical Medicine, London, UK

Dissertation: Validation of an automated wearable camera-based image-assisted recall method and the 24-hour recall method for assessing maternal and child dietary diversity

and women's time use in rural Uganda

2011 M.P.H.

Washington University in St Louis, St Louis, MO

Brown School of Social Work

2000 B.A. Art History / Studio Art

Indiana University, Bloomington, IN

School of Fine Arts

POSITIONS AND APPOINTMENTS

2023 - 2024	Research Assistant Professor	

Brown School at Washington University in St Louis

St Louis, MO

2013 - 2015 Nutrition Specialist

World Bank Group Washington, D.C.

2012 - 2013 Senior Nutrition Advisor/IYCN

USAID SPRING Project, Save the Children USA

Washington, D.C.

2010-2013 Research Assistant

Washington University in St Louis, St Louis, MO, Cap Haitien, Haiti

2010 Intern

Helen Keller International (HKI), Nigeria

2009-2011 Research Assistant

Health Communication Research Laboratory (HCRL), St Louis, MO

2002 - 2009 Senior Usability Specialist

Monsanto Company, St Louis, MO

ACTIVITIES

2024-Present	(National Institutes of Health), Ecuador	Obesity Prevention Intervention in School-Age Children in Quito and Tulcán, Principal Investigator
2023-2024	(Catholic Relief Services / USAID), Haiti	Ayiti pi Djanm ("a Stronger Haiti"), Co-Investigator
2023-2024	(IMMANA), Uganda	Mmeka?: Improved methods for collecting food price data in Kampala, Uganda, Principal Investigator
2023-2024	World Bank, Uganda	Northern Uganda Social Action Fund (NUSAF4), Consultant
2023-2024	World Bank, Senegal	Peri-urban Integrated Child Growth, Care, Nutrition, and Development (MindUp), Consultant

2023	World Bank, Nigeria	Accelerating Nutrition Results in Nigeria (ANRiN), Consultant
2017-2023	London School of Hygiene & Tropical Medicine (IMMANA), Uganda	Using ICTs to understand relationships between labour saving innovations, women's time use and maternal and child nutrition outcomes, Co-Investigator
2022-2023	World Bank, Indonesia	Investing in Nutrition and Early Years (INEY) program in Indonesia, Consultant
2022-2023 2018-2020	World Bank, Cambodia	Cambodia Nutrition Project, Consultant
2022-2023	International Livestock Research Institute, Uganda	Sustainable Animal Productivity for Livelihoods, Nutrition & Gender Inclusion {SAPLING), Consultant
2022	Apata Insights (Trickle Up), Uganda	Building Self-Reliance and Resilience in West Nile, Uganda, Co-Investigator
2022	WorldFish (USAID), Myanmar	Fish for Livelihoods Activity, Consultant
2020-2022	ICF International, Uganda	DHS8 Uganda pilot, Consultant
2021-2022	World Bank, Global	Water, Sanitation and Hygiene (WASH) in Fisheries and Aquaculture, Consultant
2019-2022	World Bank, Global	Positioning Nutrition within Universal Health Coverage Frameworks, Consultant
2020	Anna W. Herforth, LLC, Africa	Diet Quality Questionnaire (DQQ), Consultant
2020	Food and Agriculture Organization, Global	Enhancing regional capacities to design and implement nutrition-sensitive social protection programmes to reduce food insecurity and malnutrition, Consultant
2019 - 2020	World Bank, Lao PDR	Evaluating the Impacts of Clean Cooking Technology in Laos, Consultant
2019 - 2020	Independent Evaluation Group of the World Bank, Global	IEG Review of World Bank Group (WBG) Support to Chronic Malnutrition Evidence map finalization and coding of portfolio, Consultant
2017 - 2020	World Bank, Cambodia & Lao PDR	Unpacking the linkages between women's endowments, economic opportunity, and malnutrition in Cambodia and Lao PDR, Consultant
2018	World Bank, Papua New Guinea	Multisectoral approaches to improving nutrition outcomes: Papua New Guinea, Consultant
2016 - 2018	World Bank, Senegal	Analysis & Perspective: 15 Years of Experience in the Development of Nutrition Policy in Senegal, Consultant
2016	World Bank, Benin, Burkina Faso, Cote d'Ivoire, and Togo	The Case for Investing in Nutrition in Benin, Burkina Faso, Cote d'Ivoire and Togo, Consultant
2015 - 2018	World Bank, Global	SecureNutrition Knowledge Platform (SNKP), Consultant
2015 - 2017	World Bank, Sierra Leone	Sierra Leone Social Safety Net Project, Consultant
2016	London School of Hygiene & Tropical Medicine, India	Community-driven and digital technology-enabled agriculture intervention for nutrition: a cluster randomized controlled trial in Odisha, India, Research Assistant
2016	World Bank, Madagascar	Building Nutrition Sensitive Safety Nets, Consultant

Last updated: June 2024

2016	FHI 360, Ethiopia	USAID Ethiopia: Empowering New Generations to Improve Nutrition and Economic, Consultant
2015	Welthungerhilfe, Sierra Leone	Impact of Ebola Vir us Disease on Food Availability, Food Consumption and Household Dietary Diversity in Kenema and Tonkolili Districts, Consultant

PEER-REVIEWED PUBLICATIONS

Bulungu, ALS, Galinda, BD, Iannotti, L & Ouma, EA. Behavior change communication for promoting the consumption of livestock-derived animal source foods in low- and lower-middle-income countries: A systematic scoping review. (in preparation)

Namaste, SML, **Bulungu, ALS**, & Herforth, AW. Cognitive testing of dietary assessment and nutrition coverage questions for use in population-based surveys: Results from the Demographic and Health Survey Pilot in Uganda. (in preparation)

Bulungu ALS, Palla L, Nambooze J, Priebe J, Forsythe L, Katic P, et al. Automated wearable cameras for improving recall of diet and time use in Uganda: a cross-sectional feasibility study. Nutr J [Internet]. 2023 Jan 12;22(1):7. Available from: https://nutritionj.biomedcentral.com/articles/10.1186/s12937-022-00828-3

Bulungu, A. L. S., Palla, L., Priebe, J., Forsythe, L., Katic, P., Varley, G., ... Ferguson, E. L. (2022). Validation of an automated wearable camera-based im-age-assisted recall method and the 24-hour recall method for assessing women's time allocation in a nutritionally vulnerable population: The case of rural Uganda. *Nutrients, 14, 1833. https://doi.org/10.3390/nu14091833.*

Kimere, N.C., Nambooze, J., Lim, H., **Bulungu, A.L.S.**, Wellard, K., Ferguson, E.L. (2022). A food-based approach could improve dietary adequacy for 12-23-month-old Eastern Ugandan children. *Maternal & Child Nutrition*.

Bulungu, A. L. S., Palla, L., Priebe, J., Forsythe, L., Katic, P., Varley, G., ... Ferguson, E. L. (2020). Validation of a life-logging wearable camera method and the 24-hour diet recall method for assessing maternal and child dietary diversity. *British Journal of Nutrition*, 1–32. https://doi.org/10.1017/S0007114520003530

Spray, A. L., Eddy, B., Hipp, J. A., & Iannotti, L. (2013). Spatial analysis of undernutrition of children in Léogâne Commune, Haiti. *Food & Nutrition Bulletin*, *34*(4), 444–461.

MONOGRAPHS & WORKING PAPERS

Hoevenaars, Kyra; **Bulungu, Andrea L.S.**; Huynh, Christine Cong Thuy Duong; Vizaki, Marialena; Dillon, Mike. Water, Sanitation and Hygiene (WASH) in Fisheries and Aquaculture: Guidance Note (English). Washington, D.C.: World Bank Group.

http://documents.worldbank.org/curated/en/099300206172282906/P16529802834cb0180801c0c4a540fffbd9

World Bank. (2022). Water, Sanitation and Hygiene (WASH) in Fisheries and Aquaculture - Rapid Needs Assessment Tool: User Guide Washington, D.C.: World Bank Group.

http://documents.worldbank.org/curated/en/099300006172238577/P1652980d60e4906f0a69c0c037edb85419

World Bank. (2022). Water, Sanitation and Hygiene (WASH) in Fisheries and Aquaculture - Rapid Needs Assessment Tool: Checklist. Washington, D.C.: World Bank Group.

http://documents.worldbank.org/curated/en/099300106172232710/P165298052e5fc02b0be8d0fb81c0e71207

Subandoro, A. W., Okamura, K., Mehta, M., Wang, H., Ahluwalia, N., Finkel, E., **Bulungu, A. L. S.**, Dinsa, G., Okara, L., & Wilson, S. (2022). *Positioning Nutrition with Universal Health Coverage: Optimizing Health Financing Levers* (Health, Nutrition, and Population (HNP) Discussion Paper). The International Bank for Reconstruction and Development / The World Bank.

Spray, A.L. (2018). Evolution of Nutrition Policy in Senegal. Analysis & Perspective: 15 Years of Experience in the Development of Nutrition Policy in Senegal. The World Bank.

Spray, A.L. (2016). Leveraging Social Protection Programs for Improved Nutrition: Report on the Proceedings of the Global Forum on Nutrition-Sensitive Social Protection Programs, 2015. The World Bank.

Spray, A.L. (2016). Leveraging Social Protection Programs for Improved Nutrition: Compendium of Case Studies Prepared for the Global Forum on Nutrition-Sensitive Social Protection Programs, 2015. The World Bank.

INVITED PRESENTATIONS

Crowdsourcing food prices with Poket. ANH Academy Week Learning Lab. Online. 17 - 20 June 2024.

Mmeka? Methods of collecting food prices in Kampala, Uganda. ANH Academy Research Community on Food Access. Online. 21 February 2024.

Validation of an automated wearable camera-based image-assisted recall method and the 24-hour recall method for assessing dietary diversity and time allocation in rural Uganda. IMMANA Stakeholder Dissemination Meeting. Kampala, Uganda. 23 January 2024.

Mmeka? Methods of collecting food prices in Kampala, Uganda. IMMANA Fellows quarterly meeting. Online. 21 September 2023.

Validation of an automated wearable camera-based image-assisted recall method and the 24-hour recall method for assessing dietary diversity and time allocation in rural Uganda. Scuola Specializzazione in Statistica Sanitaria e Biometria, Sapienza Università di Roma, 21 June 2023.

Cognitive Interviews for the DHS-8 Pilot, Uganda. Learning Network on Nutrition Surveillance (LeNNS): Methods Showcase on Diet Quality Assessment. Kampala, Uganda. 29 May 2023.

Behaviour change communication interventions for improving animal-source food consumption in low- and lower-middle-income countries. The SAPLING Initiative- Nutrition stakeholder workshop. Kampala, Uganda. 26 April 2023.

Validation of an automated wearable camera-based image-assisted recall method and the 24-hour recall method for assessing women's time allocation in Uganda. 44th International Association for Time Use Research Conference. Montréal, Quebec, Canada. 17-19 August 2022.

Validation of an automated wearable camera-based image-assisted recall method and the 24-hour recall method for assessing women's time allocation in rural Uganda. 117th American Sociological Association Annual Meeting. Los Angeles, California. 5-9 August 2022.

Validation of an automated wearable camera-based image-assisted recall method and the 24-hour recall method for assessing dietary diversity and time allocation in rural Uganda. Scuola Specializzazione in Statistica Sanitaria e Biometria, Sapienza Università di Roma, 16 March 2022.

Assessing maternal and child dietary diversity and women's time use using automated wearable cameras in *Uganda*. Drivers of Food Choice and Innovative Methods and Metrics for Agriculture and Nutrition Actions Stakeholder Dissemination Workshop, Kampala, Uganda, 2 December 2021.

What can we learn from interventions in nutrition-sensitive social protection? Economic Policy Research Institute (EPRI) International Training Programme (ITP 322) Social Protection for Sustainable Development, Webinar, 18 October 2021.

Assessing maternal and child dietary diversity and women's time use using automated wearable cameras in *Uganda*. Program in International Nutrition, Cornell University, 7 October 2021.

Enhancing the impact of social protection programs on food security and nutrition [Panelist]. Food and Agriculture Organization of the United Nations (FAO), 16 September 2021.

Validation of a life-logging wearable camera method and the 24-hour recall method for assessing dietary diversity and time allocation. Scuola Specializzazione in Statistica Sanitaria e Biometria, Sapienza Università di Roma, 15 June 2021.

Validation of a life-logging wearable camera method and the 24-hour diet recall methods for

assessing maternal and child dietary diversity [Poster and Elevator Pitch]. 4th Annual Agriculture, Nutrition & Health (ANH) Academy Week. Hyderabad, India. 2019.

The Feasibility and Acceptability of Information and Communication Technologies (ICTs) for Collection of Diet and Time Use Data. 3rd Annual Agriculture, Nutrition & Health (ANH) Academy Week. Accra, Ghana. 2018.

ICTs for Nutrition and Time Use (INATU). Sight and Life Elevator Pitch Contest at the American Society for Nutrition (ASN) Annual Meeting. Boston, MA. 2018.

Understanding audience needs in finding and using cancer registry data. Centers of Excellence in Cancer Communication Research (CECCR) Annual Meeting. St Louis, MO. 2011.

Improving Young Child Nutrition in Haiti. Institute for Public Health Annual Conference. St Louis, MO. 2011.

Geographical Distribution of Factors Contributing to the Nutritional Status of Children Under-3 in Léogâne Commune, Haiti. Ashburn Graduate Student Conference. St Louis, MO. 2011.

Nutrition and health situation of children in pre- and post-earthquake Léogâne Commune, Haiti. The Children's Nutrition Program of Haiti (CNP). Léogâne Commune, Haiti. 2011.

Nutrition and health situation of children in pre- and post-earthquake rural Léogâne Commune, Haiti. Experimental Biology 2011. Washington, D.C. 2011.

RESEARCH GRANTS

2024	Principle Investigator. Obesity Prevention Intervention in School-Age Children in Quito and Tulcán. Nutrition Obesity Research Center, John T. Milliken Department of Medicine, Washington University in St Louis.
2024	Principle Investigator. Systematic Scoping Review of the Linkages to Maternal Mental Health in the First 1,000 Days. Washington University in St Louis, Brown School, Global Programs Faculty Research Fund.
2023-2024	Principle Investigator. Mmeka? Methods of collecting food prices in Kampala, Uganda. IMMANA Fellowship.
2018-2020	Co-Investigator. Understanding how dynamic relationships among maternal agency, maternal workload and the food environment affect food choices. Drivers of Food Choice Competitive Grants Program.

TEACHING EXPERIENCE

Co-Instructor

Global Hunger and Undernutrition, Washington University in St Louis, Brown School of Social Work

Guest Lecturer

Global Health Financing & Infrastructure, Saint Louis University, College for Public Health & Social Justice International Food and Nutrition Policies and Programs, George Washington University, Milken Institute School of Public Health

Global Hunger and Undernutrition, Washington University in St Louis, Brown School of Social Work International Public Health, Washington University in St Louis, College of Arts and Sciences Human Computer Interaction, Washington University in St Louis, Department of Computer Science & Engineering

Software Design and Development Studio, Washington University in St Louis, Department of Computer Science & Engineering

Web Development, Washington University in St Louis, Department of Computer Science & Engineering

Teaching Assistant

Global Hunger and Malnutrition, Washington University in St Louis, Brown School of Social Work Global Hunger and Undernutrition, Washington University in St Louis, Brown School of Social Work

Foundations of Geographic Information Systems (GIS) for the Applied Social Sciences, Washington University in St Louis, Brown School of Social Work

PROFESSIONAL SERVICE

2022 - 2024	Heights and Minds
2021	VISIDA dietary assessment system trialing
2019	Nutrition Society of Uganda (NSU)
2015	Junior Researcher Task Force, The 2nd International Conference on Global Food Security

Peer-Review Editorial Activities

PLOS ONE The Lancet

Other Peer-Review Activities (Proposals)

Innovative Metrics and Methods for Agriculture and Nutrition Actions (IMMANA)

AWARDS AND HONORS

2022	World Bank Group Spot Award
2018	Sight and Life Elevator Pitch Contest 3 rd Place Award
2016	World Bank Group FY16 Human Development Vice-Presidency Team Award
2016	Delta Omega Honorary Society in Public Health, Gamma Sigma Chapter
2015	Brown School Distinguished Alumni Award Washington University in St Louis, Brown School of Social Work
2010	Shanti K. Khinduka Fellowship for International Social Work Education Washington University in St Louis, Brown School of Social Work
2009	Brown School Scholarship in Health Communications Washington University in St Louis, Brown School of Social Work