NADIA KOYRATTY, PhD, MSc, BSc

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Passionate global health epidemiologist with 10 years of academic, industry and field experiences in high-, low-, and middle-income countries. Proven expertise in population health research and quantitative data analysis. Enjoys learning and working on various topics in health. Noted as a quick learner, especially in statistical software. Currently improving skills in data visualization and qualitative research methods.

Selected skills: data analytics, epidemiologic methods, survey design, psychometrics, 8 languages Attributes: Lived, studied, and worked in 8 countries/ 3 continents | Active learner | Travel flexible

SKILLS & EXPERTISE

SOFTWARE AND REPOSITORIES: Stata, R, SAS, Mplus, SPSS, Nvivo, ArcGIS, Canva, Research Rabbit, Connected Papers, Covidence, EndNote, Mendeley, Zotero, OneNote, Microsoft Office, Adobe illustrator, Open Scientific Framework (OSF), DesignSafe-CI

STATISTICAL MODELLING: Regressions [linear, logistic, ordinal, multinomial, quantile], factor analysis, principal component analysis, multiple correspondence analysis, survival analysis, mixed-effects analysis, longitudinal analysis, time-series, etc.

LANGUAGES: Mauritian Creole: Master | English: Master | French: Master | Italian: Independent | Urdu: Independent | Hindi: Conversational | Arabic: Basic | Spanish: Basic

STUDY DESIGN: Community-based trials, Case-control studies, Cohort studies, Cross sectional studies, Randomized controlled trials, Ecological studies

SURVEY AND QUESTIONNAIRE DESIGN: Qualtrics, Surveymonkey, Googledocs, KoboToolbox

WRITING AND REPORTING: Manuscripts, Journal Publications, Reviews, Report briefs, Grants, PowerPoints, Posters, Blogs, Newsletters, Social media posts, Video clips

OTHER: Project management, Organization, Oral communication

EDUCATION

2021 TO 2022

POSTDOCTORAL RESEARCH ASSOCIATE

UNIVERSITY OF MARYLAND BALTIMORE COUNTY, USA

NEW MEXICO STATE UNIVERSITY, USA

Main project: Development and Validation of a Disaster Food Security Framework and Scale.

2016 TO 2021

PHD EPIDEMIOLOGY, UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK, USA Dissertation: Food Insecurity, Water Insecurity, Child Growth and Minimum Infant Dietary Diversity.

2013 TO 2015

MSC SUSTAINABLE MANAGEMENT OF FOOD QUALITY, ERASMUS MUNDUS EUROPEAN MASTER

UNIVERSITE DE MONTPELLIER, FRANCE [SPECIALIZATION: NUTRITION]

UNIVERSITA DEGLI STUDI DELLA BASILICATA, ITALY [SPECIALIZATION: AGRICULTURE]

Dissertation: A Systematic Review of the Cardiometabolic Health Effects of Pseudocereals.

2008 TO 2011

BSC (HONS) FOOD SCIENCE AND TECHNOLOGY, UNIVERSITY OF MAURITIUS, MAURITIUS

Dissertation: Food Additive Control: Knowledge, Attitudes and Practices of Consumers and Food Manufacturers.

PROFESSIONAL & RESEARCH EXPERIENCES

OCT 2022 TO PRESENT

ASSOCIATE RESEARCH FELLOW, INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE, DC

- Project management for nutrition interventions in LMICs
- Engaging international stakeholders involved in development activities in LMICs
- Nutritional data analysis/ dietary assessments

SEP 2021 TO SEP 2022

POSTDOCTORAL RESEARCH ASSOCIATE, UNIVERSITY OF MARYLAND BALTIMORE COUNTY, MD

- Co-PI for "Validating the Disaster Food Security Scale for Rural Populations (DFSS-Rural)" funded by the Natural Hazards Center of the University of Colorado Boulder.
- Spearheaded the development of a disaster food security scale using large US household-level multi-state data with a food system approach and the social-environmental determinants of health concept [Tufts University and USDA ERS funded]
- Designed and launched an in-depth interview guide for qualitative research across the US to explore the residents' food experiences during COVID-19, hurricane Irene, hurricane Florence and the Moore tornadoes.
- Performed unstructured interviews with victims of natural disasters and public health emergencies using strong interpersonal and communication skills.
- Coded and reported qualitative data for advancing food insecurity and nutrition research projects.
- Delivered support and expertise in compilation and standardization of state-level datasets from the 'National Food Access and COVID Research Team' (NFACT) into singular files to streamline analyses for critical research questions.
- Key contributor in grant writing and submission, particularly on food systems and disaster projects.
- Avid user of the DesignSafe-CI online repository to store and manage datasets, codebooks, and reports.
- Day-to-day leverage of epidemiologic, statistical and data analysis expertise towards successful progression of various projects across research groups within food security, nutrition, health, and behavior.

MAY 2020 TO PRESENT

RESEARCH ASSISTANT (VOLUNTEER), DISASTER RESEARCH LAB, MD

UNIVERSITY OF MARYLAND BALTIMORE COUNTY [PREVIOUSLY D'YOUVILLE COLLEGE, BUFFALO NY]

- Continued provision of quantitative and subject matter expertise in research questions related to public health.
- Led complex data management processes for the large-scale "Risk Perception, Information Seeking, and Protective Action During COVID-19" (RAPID) Study streamlining 10K+ observations across 12 time points and multiple US states.
- Developed and prepared variables, codebooks, data reports and presentations highlighting issues in food systems.

JUL 2018 TO DEC 2021

CONSULTANT (VOLUNTEER), ZVITAMBO INSTITUTE FOR MATERNAL AND CHILD HEALTH RESEARCH, ZIMBABWE

- Provided expertise for the "Development of holistic metrics for food and water insecurity and school-age child function for nutrition-sensitive programmes" funded by ANH Academy through the IMMANA grants.
- Instrumental in the development of a survey questionnaire for the 'Child Health, Agriculture, and Integrated Nutrition (CHAIN)' randomized trial in rural Zimbabwe.
- Provided expertise to develop and design a nutrition and agriculture program community-based randomized trial aimed at closing the nutrient gap among infants and young children in Zimbabwe.
- Led and provided guidance for all analyses of preliminary data related to food and water security assessments.

AUG 2016 TO AUG 2021

RESEARCH & PROJECT ASSISTANT, UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK, NY

- Provided technical assistance and analyzed data related to air pollution in China and cardiovascular diseases.
- Headed data cleaning, variable creation, and health outcome analyses with the 'Sanitation, Hygiene, and Infant Nutrition Efficacy (SHINE)'community-based trial which consisted of longitudinal data with 5K+ observations for each of 5 time points. All planned analyses and methods are deposited in the Open Science Framework repository.
- Performed complex mother-infant dyad analysis for health outcomes using mycotoxin metabolite data detected in the 'Sanitation, Hygiene, and Infant Nutrition Efficacy (SHINE)' participants.
- Developed departmental newsletter for the academic year 2021 using Canva.
- Designed and submitted a grant to the Innovative Methods and Metrics for Agriculture and Nutrition Actions funding mechanism (IMMANA) to look at health outcomes within the water-energy-food nexus using a systems approach. [Reviewed in final application round, but not funded].

- Compiled progress reports of research grants funded by the National Institutes of Health (NIH) and the Bill and Melinda Gates Foundation (BMGF).
- Led systematic reviews on dietary exposures to pesticides among the general, non-occupationally exposed population worldwide.
- Led online training on systematic reviews to scientists of the Environmental Protection Bureau from the New York State Office of the Attorney General.
- Guest lectured undergraduate classes in Nutritional Epidemiology and Global Health.
- Acted as teaching assistant for students at graduate level for epidemiology methods courses.

APR 2015 TO AUG 2016

JUNIOR NUTRITION SCIENTIST, NESTLE RESEARCH CENTRE, SWITZERLAND

- Co-directed assessments to highlight the prevalence of dietary added-sugar intake among children and toddlers in China, Mexico and US using the respective National Health and Nutrition Examination Surveys (NHANES).
- Utilized the Cochrane approach to conduct and synthesize 20+ systematic reviews to evaluate the nutritive value of specific food commodities e.g., cereals, beans, salt, sugar, etc.
- Provided scientific expertise for updating nutritional and quality recommendations of food products.
- Key contributor to processed food product reformulation strategies aiming to reducing added sugars and salt.

JUL 2012 TO AUG 2013

MEDICAL SALES REPRESENTATIVE, BOEHRINGER-INGELHEIM PHARMACEUTICALS, MAURITIUS

- Led country-wide sales operations and strategy development for various pharmaceutical products in Mauritius.
- Designed in-depth market studies on competitor products and aggregated relevant scientific literature with a strong focus on the effect of certain drugs across different populations.
- Orchestrated seminars, conferences, and promotional activities for medical doctors and local pharmacists.

CERTIFICATES & PROFESSIONAL DEVELOPMENT

•	Data Mining Methods in the Health Sciences	2022
•	Introduction to Time Series Analysis and Forecasting in R (Udemy)	2022
•	Causal Mediation Analysis (Statistical Horizons)	2022
•	Designing Effective Online Surveys (Statistical Horizons)	2022
•	Longitudinal Data Analysis Using Structural Equation Modeling (Statistical Horizons)	2022
•	Data Science: Visualization (HarvardX School of Public Health)	2022
•	Psychometrics (Statistical Horizons)	2021
•	Applied Sensitivity Analyses in Epidemiology (University of Michigan)	2021
•	Global Innovation Challenge (University at Buffalo)	2019
•	Certified Peer Reviewer (Elsevier/ American College of Epidemiology)	2020
•	Data Science: R Basics (HarvardX School of Public Health)	2020
•	Global Health Innovation Challenge (University at Buffalo)	2020
•	Food Equity Ideas Lab Workshop (University at Buffalo)	2017
•	Health and Safety in Laboratory (Université de Sherbrooke, Canada)	2015
•	Health and Society (HarvardX School of Public Health)	2014
•	Public Health in Numbers (HarvardX School of Public Health)	2013
•	SADC Academic Symposium on cardiovascular diseases (Botswana)	2013
•	Medical Representative Training Programme (South Africa)	2012

AWARDS & HONORS

•	Natural Hazards Engineering Research Infrastructure (NHERI) RAPID Equipment Training Workshop	2022		
	Travel Award: University of Washington, Seattle			
•	Nominee Saxon Graham Dissertation Award: University at Buffalo			
•	Food and Nutrition Section Fellow (Program Planning): American Public Health Association (APHA)			
•	Holger Schunemann Best Student Research Award: University at Buffalo			
•	National Science Foundation (NSF) Travel Award: Natural Hazards Engineering Research	2021		
Infrastructure (NHERI) Summer Institute, University of Texas, San Antonio				

University at Buffalo Gr	aduate Student Employees Union (GSEU) and New York Governor's Office o	of 2020		
	DER) Professional Development Award (not taken due to COVID)			
<u> </u>	e Research Fund Award: University at Buffalo	2020		
	Science and Engineering (CASE) Workshop: American Association for the	e 2020		
	(AAAS) (COVID cancelled)			
	ssador: University at Buffalo, School of Public Health & Health Professions	2020		
	Award: University at Buffalo	2019		
	Iealth Equity Award: University at Buffalo	2019		
	bal Health Initiative Award: University at Buffalo	2018		
	Travel Award: University at Buffalo	2017		
	tific Excellence: Nestlé Research Centre, Switzerland	2016		
European Union Erasmu	us Mundus Scholarship for a 2-year multi-MSc Degree (EDAMUS)	2013		
AFFILIATIONS & SERVICE				
• Journal of Cancer Epide	miology, Biomarkers and Prevention (Reviewer)	2022		
Journal of Breast Cancer	r: Basic and Clinical Research (Reviewer)	2022		
 International Society of 	Global Health (ISoGH)	2021-present		
 International Epidemiol 	ogical Association (IEA)	2021-present		
• Annals of Public Health	(Editorial Board)	2021-Present		
 Annals of Epidemiology 	(Reviewer)	2021-present		
 British Medical Journal 	(BMJ) Open (Reviewer)	2021-present		
	ation for Population Health Science (IAPHS)	2020-present		
 American Public Health 	Association (APHA; Program Planning Committee)	2020-present		
• 500 Women Scientists (1	Media coordinator - Buffalo Pod)	2020-2021		
 American College of Epi- 		2017-present		
 American Society for Nu 		2016-present		
 Society for Epidemiological 	c Research (SER)	2016-present		