

## CURRICULUM VITAE

**DATE:** April 2024

**NAME:** Shauna M. Downs, Ph.D.

**EMAIL:** sd1081@sph.rutgers.edu

**PRESENT TITLE:** Associate Professor, Tenure-track  
Coordinator Global Nutrition and Food Systems  
Department of Health Behavior, Society and Policy  
Rutgers School of Public Health

**EDUCATION:**

A. Undergraduate Graduate  
University of Calgary  
Calgary, AB Canada  
Bachelor of Science (Exercise and Health Physiology), 2004

B. Graduate  
University of Alberta  
Edmonton, AB Canada  
Master's of Science (Nutrition and Metabolism), 2007

University of Sydney  
Sydney, NSW Australia  
Doctor of Philosophy (Public Health), 2014

C. Postdoctoral Appointments  
Columbia University  
Institute of Human Nutrition & Earth Institute  
New York City, NY USA  
Earth Institute Postdoctoral Fellowship  
2014-2016

Johns Hopkins University  
Berman Institute of Bioethics  
Baltimore, MD USA  
Hecht-Levi Fellow  
2016-2017

**ACADEMIC APPOINTMENTS:**

Associate Professor  
Department of Health Behavior, Society and Policy  
Rutgers School of Public Health  
December 2022-present

Director, Public Health Nutrition Certificate  
Rutgers School of Public Health  
2018-2023

Secondary Appointments: Department of Clinical and  
Preventive Nutrition Sciences, School of Health Professions  
Rutgers University

2018-present

Assistant Professor (tenure-track)  
Department of Health Behavior, Society and Policy  
Rutgers School of Public Health  
September 2017-December 2022

Associate Member, Nutritional Sciences Graduate Program  
Faculty  
School of Environmental and Biological Sciences  
Rutgers University  
2019-present

## **MEMBERSHIPS AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:**

### *Editorial Membership:*

Associate Editor, Public Health Nutrition, 2018-Present  
Associate Editor, Behavioral Medicine, 2017-2021  
Associate Editor, BMC Public Health, 2015-2018

### *Guest Editor:*

2023-Present: Guest Editor with Kyle Davis, Carole Dalin, Jessica Gephart, Matti Kummu, Marta Tuninetti, "Sustainable Food Systems Transformations," *Environmental Research Letters*  
2022-Present: Guest Editor with Winnie Bell and Christine Blake, "Measuring Diets and Food Choice in the Context of a Changing World," *Frontiers Sustainable Food Systems*  
2022-Present: Guest Editor with Suparna Ghosh-Jerath and Archana Singh, "Indigenous food systems to address food security and nutritional status special issue," *Frontiers Sustainable Food Systems*  
2019-21: Guest Editor with Kathleen Hefferon and Hans De Steur, "Sustainable Development Goals (SDGs): Impact on nutrition", *Frontier in Nutrition*  
2019-22: Guest Editor with Selena Ahmed, "Advancing Health Food Environments for Sustainable Diets in a Changing World," *Foods*

### *Service on External Committees:*

American Society of Nutrition Committee on Advocacy and Science Policy member, 2020-2023  
INFORMAS (International Network for Food and Obesity / Non-communicable Diseases (NCDs) Research, Monitoring and Action Support) International Expert Advisory Committee on Sustainability of Food, 2021-present  
UNICEF Global Selection Panel of the Healthy Childhood Challenge, 2022

### *Service on Rutgers Committees:*

School of Public Health's Admissions and Academic Progression Committee, 2023-2024  
President's Task Force on Carbon Neutrality and Climate Resilience, Food Systems Working Group member, 2020-21  
School of Public Health Curriculum Committee, 2019-2023  
School of Public Health Strategic Planning Committee, 2019  
Public Health Nutrition Concentration Curriculum Committee, 2018-Present  
Sub-Committee: Biological Basis of Disease Requirement for Students, 2018  
PHocus Planning Committee, 2018-2020

### *Article Review:*

Current Opinion in Environmental Sustainability, 2023-  
Nature Food, 2021-  
Frontiers, Sustainable Food Systems, 2020

British Journal of Nutrition, 2020  
Millbank, 2020  
BMJ Open, 2019  
International Journal of Behavioral Nutrition and Physical Activity, 2019  
Current Developments in Nutrition, 2019  
Obesity Reviews, 2019  
Nature Sustainability, 2018  
Nature, 2017  
International Journal of Epidemiology, 2016-  
Handbook of Public Health Ethics, 2016  
New York Academy of Sciences, 2016  
Journal of Environmental and Public Health, 2015-  
European Journal of Clinical Nutrition, 2015-  
Food Control, 2015-  
Globalization and Health, 2015-  
Global Food Security, 2015-  
Food Policy, 2015-  
BMC Public Health, 2015-  
Public Health Nutrition, 2014-  
African Journal of Business Management, 2014  
Preventing Chronic Disease, 2014  
American Journal of Clinical Nutrition, 2014-  
British Medical Bulletin, 2014-  
Bulletin of the World Health Organization, 2013-  
Canadian Journal of Dietetic Practice and Research, 2009-

#### **HONORS AND AWARDS:**

New Jersey Health Foundation Excellence in Research Award, 2023  
Emerging Leader in Nutrition Sciences Hot Topics in Policy Poster Award Winner, Experimental Biology Conference, 2017  
Finalist, American Society for Nutrition Translational Research Award Competition, Experimental Biology Conference, 2017  
Postdoctoral Fellowship, Canadian Institutes of Health Research, 2014-2017  
Earth Institute Postdoctoral Fellowship, Columbia University, 2014-2016  
Endeavour International Postgraduate Award, Government of Australia, 2010-2014  
Doctoral Research Award, Canadian Institutes of Health Research, 2011-2014  
University of Sydney, School of Public Health Travel Award, 2012  
Population Health Congress, University of Sydney, 2012  
Health Services Research Association Australia New Zealand Travel Award, 2011  
Postgraduate Research Support Scheme, University of Sydney, 2011-2012  
Research Student Grant Scheme, University of Sydney, 2011-2013

#### **PROFESSIONAL ORGANIZATION MEMBERSHIPS:**

International Society of Behavioral Nutrition and Physical Activity, 2019  
International Society of Ethnobiology, 2019  
Rutgers Climate Institute, 2019-  
American Public Health Association, 2017-  
Rutgers Center for Childhood Nutrition Research, IFNH, 2017-  
American Society for Nutrition, 2016-  
Canadian Obesity Network, 2005-  
Society for Implementation Science in Nutrition, 2016-

#### **SERVICE ON GRADUATE SCHOOL COMMITTEES:**

*PhD student committees:*

Halimat Oyeneye, Rutgers School of Environmental and Biological Sciences, 2023-  
Emily Merchant, Rutgers School of Environmental and Biological Sciences, 2018-2023  
Sara Elnakib, Rutgers School of Public Health, 2018-2020

**TEACHING:**

A. Course Directorship

Rutgers School of Public Health and Harokopio University (Athens, Greece), Transforming Food Systems for Sustainability, June 2024  
Rutgers School of Public Health and Harokopio University (Athens, Greece), Food & Mediterranean Culture, May/June 2023 in Greece  
Rutgers School of Public Health, Global Food & Culture, 2019-2021  
Rutgers School of Public Health, Global Food Systems and Policy, 2018-present  
University of Sydney, Global Health Policy, Tutorials, 2013  
University of Sydney, Health Policy Projects, Course organization, 2013  
University of Alberta, Cultural Aspects of Food, Sessional Instructor, 2010

B. Guest lectures

Rutgers School of Public Health, Community-Engaged Methods in Public Health (UGPH0650), Using community engaged methods in public health nutrition research, July 2023.  
Rutgers University Byrne Seminar Course, How can we implement innovative solutions to enhance the safety and integrity of a nation's food supply chain to ensure it is free from contamination, spoilage, and disruptions?, October 2023?  
Rutgers School of Public Health, Global Communicable and Non-Communicable Diseases (UGPH0515), Defining malnutrition AND Malnutrition interventions (recorded lectures), December 2023  
City University of London, Food Policy, Assessing policy coherence across the food system: the development and application of a policy analysis tool, January 2021-24.  
Columbia University Institute of Human Nutrition, U.S. and International Nutrition Policy and Programs, Global Cardiovascular Disease Prevention Policy: Needs, Solutions and Sustainability, March 2016-2022.  
Rutgers School of Public Health, A food systems approach to improving diets, PhD Colloquium, November 2020.  
Johns Hopkins School of Public Health, Policies Shaping Food Environments, October 2020  
22.  
School of Environmental and Biological Sciences, Department of Nutrition Seminar Course, The Mediterranean Diet: Public Health Implications, February 2020 & 2021.  
Rutgers School of Public Health, Qualitative Research Methods, Application to Improve Qualitative Methods to Improve Diets in Global Settings, March 2020 & Aug 21.  
Rutgers School of Public Health, Health Systems and Policy Core, Food and Nutrition Policy in the US, 2019-2021.  
Rutgers School of Public Health, Public Health Foundations Core, Globalization and Health, October 2019.  
Bloustein School of Planning and Public Policy, Health and Public Policy, Obesity Prevention Policy, April 2019.  
Columbia University, Master's of Development Practice Seminar Series, My path to global nutrition, March 2018.  
Rutgers School of Public Health, Global Communicable and Noncommunicable Diseases Multiple Burdens of Malnutrition: A global Perspective, February 2018.  
Rutgers School of Public Health, Health Politics and Policy, The Role of Food Regulation to Improve Diets, March 2018.

Rutgers School of Environmental and Biological Sciences, Nutrition Epidemiology, Food Policy Discussion, October 2017.

Montana State University, Food Environments, Intervening in the food environment with policy, November 2017.

Johns Hopkins School of Advanced International Affairs, Food Policy, Systems and Security, The Food Environment, April 2017.

Johns Hopkins School of Advanced International Affairs, Food Policy, Systems and Security, School of Advanced International Affairs, The economic impact of food, food prices and food trade, March 2017.

Columbia University Institute of Human Nutrition, Student Practicum Workshop, Doing Qualitative Research: A practical overview, March 2016.

Columbia University, Global Health Lecture Series, Global Obesity and Nutrition Policy, November 2015.

Columbia University Institute of Human Nutrition, Guest lecture in Topics in Nutrition, An Introduction to Global Nutrition., Institute of Human Nutrition, Columbia University, September 2015.

Columbia University School of International and Public Affairs, Global Nutrition Policy, The Role of Policy to Reduce Obesity and Diet-related NCDs, October 2014.

Columbia University School of International and Public Affairs, Global Nutrition Policy, Designing and Implementing Nutrition Programs in an Obesogenic Environment, October 2014.

University of Georgia (study abroad), Multisectoral Policies to Improve Diets and Reduce NCDs, May 2013.

University of Sydney, Master's of Sustainability, Trade and Health, September 2011.

University of Alberta, Cultural Determinants of Food Choice, Dietary Intake and Aboriginal Child Health, February 2007.

University of Alberta, Introduction to Community Nutrition, Aboriginal Child Health, March 2007.

University of Alberta, Body Composition, Nutrition and Physical Activity Physical Activity and Weight Loss, February 2009.

University of Alberta, Sports Nutrition, Figure Skating and Nutrition, February 2006.

C. Student mentoring:

MPH/MS Student Practicums/Capstones/Theses

Samuel Gauthier, Rutgers University, 2023-2024

Gaby Bromfeld, Rutgers University, 2023-2024

Katherine Wingert, Rutgers University, 2023-2024

Nisarg Patel, Rutgers University, 2023-2024

Tian Zhang, Rutgers University, 2023

Marina Garcia, Rutgers University, 2023

Sindy Ferreira, Rutgers University, 2023

Mercy Baiden, Rutgers University, 2023

Sarah Bjerklie, Rutgers University, 2023

Shannon Barlow, Rutgers University, 2022-23

Gloria Labato, Rutgers University, 2022

Theodora Mavros, Rutgers University, 2022

Austin Togo, Rutgers University, 2022

Maddy Tannous, Rutgers University, 2022

Tamara Sullivan, Rutgers University, 2022

Taylor Ivy, Rutgers University, 2022

Megan Romanovich, Rutgers University, 2022

Vicky Staromiejska, Rutgers University, 2022

Alisa Fatima, Rutgers University, 2021

Meena Venkat, Rutgers University, 2021  
 Amanda Lee, Rutgers University, 2020-21  
 Maddy Tannous, Rutgers University, 2021-22  
 Alaa Al-Shujairi, Rutgers University, 2021  
 Nina Olsen, Rutgers University, 2020-21  
 Madelin Hernandez, Rutgers University, 2021  
 Ranelle Tulluch, Rutgers University, 2020-21  
 Alyse Osher, Rutgers University, 2021  
 Bulongo Muzandu, Rutgers University, 2020  
 Tasneem Fatima, Rutgers University, 2020-21  
 Alexandra Zivkovic, Rutgers University, 2020  
 Deandrah Cameron, Rutgers University, 2020 (co-advisor)  
 Kedeen Okumu-Camera, Rutgers University, 2019  
 Pranav Singh, Columbia University, 2019  
 Melissa Tan, Columbia University, 2019  
 Minna Sabbahi, Rutgers University, 2018-2019  
 Kaelin Conover, Rutgers University, 2018-2019  
 Jade Sanders, Johns Hopkins University, 2015-2016  
 Maya Nirmalraj, Johns Hopkins University, 2015-2016  
 Milan Bloem, Wageningen University, 2016  
 Patricia Welch, Johns Hopkins University, 2015-2016 (co-advisor)  
 Joelle Johnston, Johns Hopkins University, 2015-2016 (co-advisor)  
 Sean Sookhoo, Columbia University, 2015-2016  
 Jiewen Li, Columbia University, 2015-2016  
 Anne Piper, Columbia University, 2014-2015 (co-advisor)  
 Mahima Dhume, Columbia University, 2014-2015 (co-advisor)  
 Kayla Reynolds, Columbia University, 2014-2015 (co-advisor)  
 Marina Mattson, Columbia University, 2014-2015 (co-advisor)  
 Emma Lonsdale, University of Sydney, 2013  
 Undergraduate honors students  
     Theodora Mavros, Rutgers University, 2018-2020  
     Irena Pavlovic, Rutgers University, 2019-2020  
 Bridge the gap program  
     Nicholas Lozano, 2019  
 High Student Mentoring  
     Lauren Ballini, Briarcliff High School, Regeneron Science Talent Search Advisor

## GRANTS

### A. Principal/Co-Principal Investigator

#### Pending grants

09/01/2023-08/31/2028 MPI Downs (contact PI) and Lee, "Prioritizing food systems interventions to reduce adolescents' nutrition insecurity and malnutrition in low-income settings," NICHD, Total costs = \$2,944,431 (30% effort); re-submitted Nov 2023 (6<sup>th</sup> percentile; 20 impact score)

#### Current grants/subcontracts

#### *Federal US grants*

- 01/15/2022-06/30/2024 Co-Principal Director (with Sara Elnakib (lead PD) & Ethan Schoolman), “People, Plants, and the Planet: A multi-method study to develop, implement and evaluate a food and climate change intervention to empower adolescents to make healthy and sustainable plant-based food choices,” United States Department of Agriculture, National Institute of Food and Agriculture Seed Grant, 2022-69015-36756, Total costs = \$298,290 (10% effort)
- 08/10/2021-07/31/2024 Principal Investigator, “The impact and implementation of a mobile messaging intervention to improve infant and young child nutrition in Senegal”, NICHD,1R21HD105067-01, Total costs = \$391,990 (25% effort). No cost extension to 07/31/2024.

#### *Foundation grants*

- 01/01/2023-12/31/2028 Co-Principal Investigator (with Suparna Ghosh-Jerath (lead PI), Archana Singh, Sangeetha Vellaichamy, Venkatesh Palanisamy, Uponsa Ghosh, Geetanjali Singh, Shankar Manoharan), “Characterizing, Revolving, Supporting, Monitoring and Managing Sustainable Food Systems to address malnutrition in indigenous tribal communities of India. CARISMMA food system study”, India Alliance DBT Wellcome Team Science Grants, Total costs = \$1,311,899 (at date of award letter 04/19/2022; 99,987,756 INR) (no % effort permitted for US-based investigators)
- 04/01/2022-09/30/2024 Principal Investigator, “The Food Environment Toolbox: Tools to Measure Natural and Built Food Environments in Low- and Middle-Income Countries,” Innovative Methods and Metrics for Agriculture and Nutrition Actions (IMMANA), Bill and Melinda Gates Foundation and the UK Department for International Development, IMMANA 3.07, Total costs = \$348,416 (at date of award letter 03/05/2021; 249,999 GBP) (25% effort)

#### *Intramural grants*

- 05/15/2022-05/14/2024 Principal Investigator, “Examining the influence of food environments on infant and young child feeding among subsistence farming communities in Senegal”, Rutgers Global Health Seed Grants, Total costs = \$10,000

#### *Sub-contracts*

- 07/01/2022-06/30/2024 Co-Principal Investigator with Jess Fanzo (lead PI) and Swetha Manohar, “A River in transition: Understanding the health and environmental sustainability of consumer choice, local food environments and diets in Lower Mekong River communities of Cambodia,” Bloomberg Distinguished Professor Funds & Columbia Climate School Discretionary Funds, Total costs = \$77,930 (10% effort over 2 years)

#### Past grants

#### *Foundations*

- 03/15/2016-10/30/2017 Principal Investigator, “Identifying interventions to promote the production and consumption of healthy and sustainable oils in Myanmar”, The Sackler Institute for Nutrition Science (NYAS) Research Grant for Early Career Scientists, Total costs = \$50,000
- 03/2015-06/2017 Co-Principal Investigator (with Jess Fanzo and Ram Fishman), “The nutritional impacts of irrigated horticulture in the Sahel: leveraging a large scale randomized controlled trial in Senegal”, United Nations Food and Agriculture Organization, Agriculture 4 Nutrition and Health grants Program, Total costs = \$130,119

### *Intramural*

- 03/08/2022-05/31/2022 Principal Investigator, “Conducting a pre-baseline assessment to improve recruitment for a cluster randomized control trial in Senegal,” Center for Childhood Nutrition, New Jersey Institute for Food, Nutrition, and Health Small Research Grant, Total costs = \$9,837
- 04/16/2018-04/15/2019 Principal Investigator, “Strengthening Vegetable Value Chains for Improved Nutrition in a Kenyan Slum Rutgers Global Health Institute”, Rutgers Global Health Seed Grants, Total costs = \$7,620
- 05/01/2018-12/31/2019 Principal Investigator, “Mapping the food environment in an urban slum in Kenya: a mixed methods pilot study to inform the development of a discrete choice experiment”, Rutgers Global Seed Grants, Total costs = \$8,000

### A. Co-Investigator

#### Past grants

##### *Federal grants outside the US*

- 04/01/2018-03/31/2021 Co-Investigator (PI Dana Olstad), “Does the BC Farmers’ Market Nutrition Coupon Program improve dietary behaviours and psychosocial well-being of low-income adults?”, Canadian Institutes of Health Research, 389582, Total costs = \$432,956 (at date of award letter 01/23/2018; 539,325 CAD)

##### *Foundation grants*

- 5/1/2017-5/1/2022 Co-Investigator (PI Suparna Ghosh-Jerath), “Dietary diversity and nutritive value of indigenous foods in addressing food security and nutritional status of vulnerable tribal communities of India”, India Alliance DBT Wellcome Clinical & Public Health Research Fellow Award, IA/CPHI/16/1/502639, Total costs = \$400,756 (at date of project start 05/01/2017; 25,811,400 INR)
- 11/01/2011-10/31/2013 Co-Investigator (with PI Archana Singh), “Trans fats in the food supply in India: a pilot study to align policy options with the population consumption pattern”, Wellcome Trust-Public Health Foundation of India, Capacity Building Grant, Total costs = \$40,615 (at date of project start 11/01/2011; 2,000,000 INR)

## **PUBLICATIONS:**

### A. Refereed Original Article in Journal

1. Zeitler L, **Downs S**, Powell B. Adapting food environment frameworks to recognize a wild-cultivated continuum. *Frontiers in Nutrition*. 2024; 11:1343021.
2. Elnakib S, Subhit S, Schoolman E, Policastro P, **Downs S**, & Quick V. (2024) People, Plants, and the Planet: The Design and Impact of a Climate Change Curriculum to Support Plant-Based Eating in U.S. Adolescents ISSN: 2189-1036 – The IAFOR International Conference on Education – Hawaii 2024 Official Conference Proceedings <https://doi.org/10.22492/issn.2189-1036.2024.60>



3. **Downs S**, Manohar S, Staromiejska W, Keo C, Say S, Chhinh N, Fanzo J, Sok S. Centering context when characterizing food environments: the potential of participatory mapping to inform food environment research. *Frontiers in Nutrition*. 2024 Feb 21;11:1324102.
4. Bogard JR, **Downs S**, Casey E, Farrell P, Gupta A, Miachon L, Naughton S, Staromiejska W, Reeve E. Convenience as a dimension of food environments: A systematic scoping review of its definition and measurement. *Appetite*. 2024 Jan 2:107198.
5. Damigou, E., Kosti R, **Downs SM**, Naumovski, N. and Panagiotakos, D., 2024. Comparing The Mediterranean and The Japanese Dietary Pattern in Relation to Longevity-A Narrative Review. *Endocrine, Metabolic & Immune Disorders Drug Targets*.
6. **Downs S**, Gueye D, Sall M, Ndoye B, Sarr NN, Sarr M, Mboup S, Alam NA, Diouf A, Merchant EV, Sackey J. The impact and implementation of an mHealth intervention to improve infant and young child feeding in Senegal: Protocol for a cluster IIMAANJE randomized control trial. *Frontiers in Public Health*. 2023 Sep 25;11:1258963.
7. Aktary ML, Dunn S, Sajobi T, O'Hara H, Leblanc P, McCormack GR, Caron-Roy S, Lee YY, Reimer RA, Minaker LM, Raine KD, **Downs SM**, Lee D. The British Columbia Farmers' Market Nutrition Coupon Program Reduces Short-Term Household Food Insecurity Among Adults With Low Incomes: A Pragmatic Randomized Controlled Trial. *Journal of the Academy of Nutrition and Dietetics*. 2023 Oct 6.
8. Aktary ML, Dunn S, Sajobi T, O'Hara H, Leblanc P, McCormack GR, Caron-Roy S, Ball K, Lee YY, Nejatnamini S, Reimer RA, Pan B, Minaker LM, Raine KD, Godley J, **Downs S**, Nykiforuk C, Olstad D. Impact of a farmers' market healthy food subsidy on the diet quality of adults with low incomes in British Columbia, Canada: a pragmatic randomized controlled trial. *The American Journal of Clinical Nutrition*. 2023;117(4):766-76.
9. Manohar S, **Downs S**, Shaikh S, Mak S, Sok S, Graham E, Miachon L, Fanzo J. Riverine food environments and food security: a case study of the Mekong River, Cambodia. *Bulletin of the World Health Organization*. 2023;101(2):140.
10. **Downs SM**, Kapoor R, Merchant EV, Sullivan T, Singh G, Fanzo J, Ghosh-Jerath S. Leveraging Nutrient-Rich Traditional Foods to Improve Diets among Indigenous Populations in India: Value Chain Analysis of Finger Millet and Kionaar Leaves. *Foods*. 2022 Nov 23;11(23):3774.
11. Grossi A, **Downs S**, Daouda M, Singh P, Pei L, Foran S, Trzaska S. A systematic framework to identify climate service entry points for transforming nutrition. *UN Nutrition Journal* 2022. Vol 1.
12. **Downs SM**, Thomson M, Deckelbaum R, Wei W, Baethgen W. The role of climate services in transforming nutrition. *UN Nutrition Journal* 2022. Vol 1.
13. **Downs SM**, Fox EL, Mutuku V, Muindi Z, Fatima T, Pavlovic I, Husain S, Sabbahi M, Kimenju S, Ahmed S. Food Environments and Their Influence on Food Choices: A Case Study in Informal Settlements in Nairobi, Kenya. *Nutrients*. 2022;14(13):2571.
14. Merchant EV, Fatima T, Fatima A, Maiyo N, Mutuku V, Keino S, Simon JE, Hoffman DJ, **Downs SM**. The Influence of Food Environments on Food Security Resilience during the COVID-19 Pandemic: An Examination of Urban and Rural Difference in Kenya. *Nutrients*. 2022;14(14):2939.
15. Ghosh-Jerath S, Kapoor R, Bandhu A, Singh A, **Downs S**, Fanzo J. Indigenous Foods to Address Malnutrition: An Inquiry into the Diets and Nutritional Status of Women in the Indigenous Community of Munda Tribes of Jharkhand, India. *Current Developments in Nutrition*. 2022 Sep;6(9):nzac102.
16. **Downs SM**, Ahmed S, Warne T, Fanzo J. The Global Food Environment Transition Based on the Socio-Demographic Index. *Global Food Security*. 2022;33:100632.
17. Zivkovic A\*, Merchant EV\*, Thomas N, Hoffman DJ, Simon JE, **Downs SM**. Strengthening Vegetable Production and Consumption in a Kenyan Informal Settlement: A Feasibility and Preliminary Impact Assessment of a Sack Garden Intervention. In press in *Current Developments in Nutrition*. *Current developments in nutrition* 2022;6(5):nzac036.
18. Ghosh-Jerath S, Kapoor R, Dhasmana A, Singh A, **Downs S**, Ahmed S. Effect of COVID-19 Pandemic on Food Systems and Determinants of Resilience in Indigenous Communities of Jharkhand State, India: A Serial Cross-Sectional Study. *Front. Sustain. Food Syst* 2022; 6: 724321.

19. Merchant EV, Odendo M, Ndinya C, Nyabinda N, Maiyo N, **Downs S**, Hoffman DJ, Simon JE. Barriers and Facilitators in Preparation and Consumption of African Indigenous Vegetables: A Qualitative Exploration From Kenya. *Frontiers in Sustainable Food Systems* 2022; 6:801527.
20. Hansen J, List G, **Downs S**, Carr E, Diro R, Baethgen W, Kruczkiewicz A, Braun M, Furlow J, Walsh K, Magima N. Impact Pathways from Climate Services to SDG2 (“Zero Hunger”): A Synthesis of Evidence. *Climate Risk Management* 2022; 17:100399.
21. Fanzo JC, **Downs SM**. Climate change and nutrition-associated diseases. *Nature Reviews Disease Primers* 2021;7(1):1-2.
22. Nissan H, Simmons W, **Downs SM**. Building climate-sensitive nutrition programmes. *Bull World Health Organ.* 2022;100(1):70-77. \*HN and SMD contributed equally
23. **Downs SM**, Fox EL, Zivkovic A, Mavros T, Sabbahi M, Merchant EV, Mutuku V, Okumu-Camera K, Kimenju S. Drivers of food choice among women living in informal settlements in Nairobi, Kenya. *Appetite* 2022; 168:105748.
24. **Downs SM**, Nicholas K, Linn KK, Fanzo J. Examining the trade-offs of palm oil production and consumption from a sustainable diets perspective: Lessons learned from Myanmar. *Public Health Nutrition* 2021; 15:1-3.
25. Sterling EJ, Betley E, Ahmed S, Akabas S, Clegg DJ, Downs S, Izumi B, Koch P, Kross SM, Spiller K, Teron L. Centering Equity in Sustainable Food Systems Education. *Front. Sustain. Food Syst.* 2021; 5: 737434.
26. Mondal P, DeFries R, Flowerhill N, Arif Md, Harou A, **Downs S**, Fanzo J, 2021. Multiple cropping alone does not improve year-round food security among smallholders in rural India. *Environmental Research Letters* 2021.
27. Fox, E.L., Davis, C., **Downs**, S.M., McLaren, R. and Fanzo, J. A focused ethnographic study on the role of health and sustainability in food choice decisions. *Appetite* 2021; 165:105319.
28. **Downs**, S.M. and Fox, E.L. Uneven decline in food system inequality. *Nature Food* 2021; 2(3): 141-142.
29. Davis K, **Downs S**, Gephart J. Environmental variability and disruptions in food supply chains. *Nature Food* 2020; 2(1), pp.54-65. \*All authors contributed equally
30. Ghosh-Jerath, S., Kapoor, R., Ghosh, U., Singh, A., **Downs**, S. and Fanzo, J. Pathways of climate change impact on agroforestry, food consumption pattern and dietary diversity among indigenous subsistence farmers of Sauria Paharia tribal community of India: A mixed methods study. *Frontiers in Sustainable Food Systems* 2021; 5.
31. Hefferon, K.L., **Downs**, S., Oms Oliu, G. and De Steur, H., 2021. Sustainable Development Goals (SDGs): Impact on Nutrition. *Frontiers in Nutrition* 2021; 8.
32. Trevena, H., Neal, B., **Downs**, S.M., Davis, T., Sacks, G., Crino, M. and Thow, A.M. Drawing on strategic management approaches to inform nutrition policy design: an applied policy analysis for salt reduction in packaged foods. *International Journal of Health Policy and Management* 2020.
33. Hawkes C, Fox EL, **Downs SM**, Fanzo J, Neve K. Child-centered food systems: Reorienting food systems towards healthy diets for children. *Global Food Security* 2020; 27: 100414.
34. **Downs SM** & Demmler K. Food environment interventions targeting children and adolescents: a scoping review. *Global Food Security* 2020; 27: 100403.
35. Ahmed S, **Downs SM**, Yang C, ten Broek N, Ghosh-Jerath S. Rapid Tool Based on a Food Environment Typology Framework for Evaluating Effects of the COVID-19 Pandemic on Food System Resilience. *Food Security* 2020; 12: 773-778.
36. **Downs SM**, Ahmed S, Fanzo J, Herforth A. Food Environment Typology: Advancing an expanded definition, framework, and methodological approach for improved characterization of wild, cultivated and built food environments towards sustainable diets. *Foods* 2020; 9, 532.
37. Ghosh-Jerath S, Archana S, **Downs S**, Fanzo J. Agroforestry biodiversity, indigenous food consumption and nutritional outcomes in women of Sauria Paharia tribe: A vulnerable tribal community in Jharkhand, India. *Maternal and Child Nutrition* 2020; e13052.
38. Aktary ML, Caron-Roy S, Sajobi T, *et al* Impact of a farmers’ market nutrition coupon programme on diet quality and psychosocial well-being among low-income adults: protocol for a randomised controlled trial and a longitudinal qualitative investigation *BMJ Open* 2020; **10**:e035143.

39. Ghosh-Jerath S, Ridhima K, Archana S, **Downs S**, Barman S, Fanzo J. Leveraging Traditional Ecological Knowledge and Access to Nutrient-Rich Indigenous Foods to Help Achieve SDG 2: An analysis of the Indigenous Foods of Sauria Paharias, a vulnerable tribal community in Jharkhand, India. *Frontiers in Nutrition* 2020; 7:61.
40. Ahmed S, **Downs SM**, Fanzo J. Advancing an integrative framework to evaluate sustainability in national dietary guidelines. *Frontiers in Sustainable Food Systems* 2019:76.
41. Cuevas S, **Downs SM**, Ghosh-Jerath S, Aafrin A, Shankar B. Analyzing the policy space for the promotion of healthy, sustainable oil consumption in India. *Public Health Nutrition* 2019; 1-12.
42. Ghosh-Jerath S, **Downs SM**, Singh A, Gellar G, Fanzo F. Innovative matrix for applying a food systems approach for developing interventions to address nutrient deficiencies in indigenous communities in India: A protocol. *BMC Public Health* 2019; 19(1): 944.
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#### E. Abstracts

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51. Fong C, **Downs S**, Fayyaz F, Fajer-Gomez M & McCargar LJ. (2009). Dietary folate intakes of pregnant women in Alberta: A preliminary analysis. Canadian Family Medicine Forum. Calgary 2010.
52. **Downs S**, Brown C, Paquette S, and McCargar LJ. A needs assessment for health promotion in junior high: Students versus teachers perceptions. Canadian Society for Clinical Nutrition Meeting. Quebec City 2009.
53. **Downs S**, Raine K, McCargar L, Marshall D, Willows ND. The home environment, diet quality and weight status of Cree children in northern Quebec. Canadian Obesity Network National Summit. Kananaskis 2009.
54. Willows ND, Marshall D, Ng C, **Downs S**. Central Adiposity and Associated Lifestyle Factors in Cree Children. International Society for Behavioral Nutrition and Physical Activity Meeting. Banff 2008. \*Oral Abstract Presentation
55. **Downs S**, Calengor K, Kennedy L, Hanning R, Fraser SN, Spence JC, Plotnikoff R, Raine K, McCargar LJ. Diet Quality and its Association with Nutrient Intakes and Physical Activity of Adolescents. Alberta Canadian Obesity Network Student and New Professionals Research Day: Linking Obesity Research Throughout the Province. Calgary 2008.
56. **Downs S** & Willows ND. Cree children are at high risk of obesity and poor diet quality. 2<sup>nd</sup> Chronic Disease Alliance of Canada Conference. Ottawa 2006. \*Oral Abstract Presentation
57. Willows, ND, Raine, K, **Downs, SM**. (2006). Canadian aboriginal (Cree) schoolchildren are at risk for obesity and poor diet quality. International Congress on Obesity. Sydney 2006. \*Recipient of President's Poster Award

#### INVITED PRESENTATIONS

1. Measuring Food Environment and their impact on healthy and sustainable diets, Lady Irwin College, Delhi India, December 2023
2. Food Environment assessment: metrics and tools (and toolboxes!) for low- and middle-income countries, International Food Policy Research Institute, virtual presentation, November 2023
3. Agriculture, Nutrition and Health Academy, Learning Lab: Food environment methods, tools, and metrics to support healthy diets in low- and middle-income countries, Lilongwe, Malawi, June 2023.
4. Rutgers Cancer Institute of New Jersey, Cancer Prevention and Control Program, A food systems approach to improving diets globally, Virtual presentation, May 2023.
5. Harokopio University and West Attica University, Leveraging food systems to support sustainable diets, January 2023.
6. International Congress of Nutrition, Food Environment Assessments, Tokyo, Japan, December 2022.
7. American Society of Nutrition Annual Conference, Drivers of Food Choice and the context of changing food environments: moving beyond the “what” of consumption to the “how” and “why”, Virtual presentation, June 2022.
8. Columbia University Irving Medical Center Grant Rounds in Department of Pediatrics, Gastroenterology, Hepatology and Nutrition, A food systems approach to improving diets, Virtual Presentation, June 2022.
9. Johns Hopkins International Nutrition Seminar Series, Leveraging food environments to improve food choice, Virtual Presentation, May 2022.
10. Columbia University Climate and Health Seminar Series, The impact of climate on food systems, Virtual Presentation, February 2022.
11. NJ Institute for Food, Nutrition and Health Annual Seminar, COVID-19 Impact on Food Environments, Virtual Presentation, November 2021.
12. Sustainability incorporation into food environment theoretical models. 3<sup>rd</sup> Latin America Seminar of Food Environment and Health, Virtual presentation, October 2021.

13. A food systems approach to supporting Sustainable Diets. Fall Seminar Series, University of Delaware, Virtual presentation, October 2021.
14. Lakshmbai College (University of Delhi), International Webinar Series on Sustainable Practices, Sustainable Diets and Food Systems, Virtual Presentation, July 2021.
15. Millennials 4 Environmental Justice's upcoming virtual panel, Food 4 Thought: Confronting Food Insecurity among Black and Brown College Students with Professors. Rutgers University, July 2021.
16. Operationalizing food systems work for children and adolescents in country settings. Micronutrient Forum 5<sup>th</sup> Global Conference. Virtual presentation (originally planned for Bangkok), November 2020.
17. The impacts of COVID-19 on the Food System. Harokopio and Rutgers University joint webinar, November 2020.
18. Food Environment Typology: Wild, Cultivated and Built Food Environments. Agriculture for Nutrition and Health, Food Environment Learning Lab. Virtual presentation (originally planned for Malawi), June 2020.
19. Global Syndemic: Obesity, undernutrition and climate. International Research Institute for Climate and Society, seminar program. Lamont Campus, New York. January 2020.
20. The interface between consumers and their food environments: Case studies of Myanmar and Kenya. Measuring food environment technical meeting. Toronto, Canada. January 2020.
21. Frontiers in nutrition and agriculture for the Big 4 Agenda for Kenya; Where are we and where do we need to go? Columbia World Center, Nairobi Kenya. January 2020. [presented virtually]
22. A food systems approach to improving diets and nutrition. Harokopio University. Athens, Greece. November 2019.
23. Climate, food systems, diets and Nutrition. Rutgers Climate Institute. New Brunswick, NJ. November 2019.
24. A food environment typology and its transition over time. CGIAR Food Environment Workshop. Addis Ababa, Ethiopia. November 2019.
25. Overview of metrics and tools in food environment research. CGIAR Food Environment Workshop. Addis Ababa, Ethiopia. November 2019.
26. A Food Systems Approach to Improving Diets. Systems Science: Bridging Research, Education, Policy, and Action. Conference of the Society of Nutrition Education and Behavior. Orlando, FL. July 2019.
27. Climate, food systems, diets and nutrition. Food and Nutrition Council Meeting. New York, NY. June 2019.
28. A Food Systems Approach to Trans Fat Reduction. WHA19 Side event: Nutrition Policy Action to Save Lives: Trans fat Free by 2023. Geneva, Switzerland. May 2019.
29. Leveraging the Sustainable Development Goals to Improve Diets in Communities. Food = Health: A Conversation. Piscataway, NJ. April 2019.
30. Food, nutrition and the SDGs: the challenges faced in the US. The Sustainable Development Solutions Network Launch. New York, NY. December 2018.
31. Food systems approaches to improving diets globally. School of Public Health & School of Health Professions Nutrition Colloquium. Newark, NJ. September 2018.
32. Spotlight on food provider behavior. UNICEF Food Systems for Children and Adolescents Working Together to Secure Nutritious Diets. Florence, Italy. November 2018.
33. Climate, food system and nutrition: Keynote presentation. Columbia International Research Institute for Climate & Society & Columbia University Institute of Human Nutrition. October 2018.
34. Identifying synergies between climate adaptation and nutrition. Columbia International Research Institute for Climate & Society ACToday Nutrition Workshop. October 2018.
35. International Forum on Food and Nutrition. Barilla Center for Food and Nutrition & Sustainable Development Solutions Network. New York, NY. September 2018.
36. A food systems approach to improving diets globally. Rutgers Department of Human Ecology Seminar Series. March 2018.

37. The interface between consumers and their food environment: identifying points for intervening to improve food choices. Rutgers Department of Agriculture, Food and Resource Economics Seminar Series. February 2018.
38. Introduction to nutrition programming. International Research Institute for Climate and Society Columbia World Projects meeting. February 2018.
39. Tackling the multiple burdens of malnutrition globally: building on the past to better inform the future. Institute of Human Nutrition 60-year Anniversary Celebration. April 2017. (New York, USA).
40. Urban Food Systems: what is the role of policy? Global Urbanism Symposium. Rutgers University. May 2017.
41. Sustainable diets: what are they and will they deliver for nutrition? Earth Day Conference. April 2017. (Madison, Wisconsin)
42. Developing criteria to assess the quality of certifications. Ethical Certification Workshop. March 2017. (Shepherdstown, West Virginia).
43. Salt and the City: Examining the impact of NYC's sodium warning labels. Food and Nutrition Council: Health System Transformation: What's Food Got To Do With It? December 2016. (New York, USA)
44. Using value chain analysis to examine the trade-offs of food production and consumption. 2016 Food Systems Workshop: Teaching About Food Systems: Creating a Community of Practice. July 2016. (New York, USA).
45. Sustainable Diets: what are they and will they deliver for global food security? Sustainable Phosphorus Management for Future Food Security: An interdisciplinary workshop. June 2016. (Munich, Germany).
46. From Calgary to Columbia: my path to global nutrition. Briarcliff High School, Keynote presentation at Intel Research Program Year-end Event. May 2016. (Briarcliff, USA).
47. Multi-stakeholder Food Systems Panel. Committee on World Food Security, High Level Panel of Experts (HLPE)/Columbia University Special Exchange Seminar. May 2016. (New York, USA).
48. Food Policy in the Global Context. Mailman School of Public Health Food Policy and Obesity Prevention Brown Bag. March 2016. (New York, USA).
49. Reducing trans fat in the Indian food supply: A food systems approach. Institute of Human Nutrition Annual Retreat. November 2015. (New York, USA).
50. Improving policy coherence across Indian supply chains: a case study of trans fat. Presented at Bioversity International. April 2015. (Rome, Italy).
51. Obesity Mythbusters. School of International and Public Affairs Food Systems Brown Bag. April 2015. (New York, USA).
52. REACH Nutrition Governance Framework: Proof of Concept. REACH annual retreat. March 2015. (Rome, Italy).
53. Fixing our fractured food system: a path towards practical solutions. Professor Emeritus Stephen Leeder's Celebration. May 2014. (Sydney, Australia).
54. Food Security and Health in Australia. Good Food, Good Health Forum, the Charles Perkins Centre. March 2014. (Sydney, Australia).
55. Trade policy and public health nutrition. UN Special Rapporteur on the Right to Health, Regional consultation on unhealthy diets and NCDs. February 2014. (Mumbai, India).
56. International Participation and Cooperation. UN Special Rapporteur on the Right to Health, Regional consultation on unhealthy diets and NCDs. February 2014. (Mumbai, India).
57. Reconnecting with the food system: essential in overcoming NCDs. Melbourne Convention and Exhibition Centre, Festival of Ideas – NCDFREE launch. October 2013. (Melbourne, Australia).
58. Reducing trans fat consumption in India. The George Institute for Global Health. June 2013. (Sydney, Australia).
59. Trans fat reduction in India. Menzies Centre for Health Policy. February 2011. (Sydney, Australia).
60. Nutrition Myth Busters! School of Public Health Wellness Committee, University of Alberta. January 2010. (Edmonton, Canada).
61. Nutrition and You! Running Room. September 2009. (Edmonton, Canada).

62. Food Processor Overview. Alberta Pregnancy Outcomes and Nutrition (APrON) Study Team Training Session. May 2009. (Edmonton, Canada).
63. School health projects in Alberta. Department of Agriculture, Food and Nutrition Sciences Seminar Series. October 2008. (Edmonton, Canada).
64. Current Nutrition and Physical Activity Behaviors and the Future Needs of Junior High Students at S. Bruce Smith School. School staff meeting. June 2008. (Edmonton, Canada).
65. Childhood Obesity in First Nations. Alberta Head Start Conference. February 2007. (Edmonton, Canada).
66. The perils of Food Processor. Department of Agriculture, Food and Nutrition Sciences Seminar Series. January 2007. (Edmonton, Canada).
67. The Active Kids Project. Department of Agriculture, Food and Nutrition Sciences Seminar Series. September 2006. (Edmonton, Canada).
68. The Emiyuu Ayaachitt Awaash Project (The Active Kids Project). Cree Health Board and Social Services of James Bay Public Health Meeting. June 2006. (Whapmagoostui, Canada). Co-presented with Noreen Willows.