Jessica Wallingford, MS
Doctoral Candidate
Friedman School of Nutrition Science and Policy
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Research Interests: food systems; sustainable diets; diet quality; food prices; time use; health inequity

EDUCATION

Tufts University, Friedman School of Nutrition Science and Policy | Boston, MA/USA
PhD, Agriculture, Food and Environment (2020–2025)
Committee: William A. Masters (chair); Elena Naumova; Amelia B. Finaret

Tufts University, Friedman School of Nutrition Science and Policy | Boston, MA/USA
MS, Agriculture, Food and Environment (2017–2019)

McMaster University | Hamilton, ON/Canada
MS, Neuroscience (2014–2016)
Master's thesis work published in *Frontiers in Molecular Neuroscience* (2017)

Dalhousie University | Halifax, NS/Canada
BSc, Combined Honours, Neuroscience, Biochemistry & Molecular Biology (2009–2013)
Undergraduate thesis work published in *Neuroscience* (2014)

AWARDS AND FELLOWSHIPS

2020   Friedman Nutrition and Citizenship Fellowship
2020   Social Sciences and Humanities Research Council Doctoral Fellowship
2020   Joseph-Armand Bombardier Canada Graduate Scholarship *(awarded and declined)*

RESEARCH & WORK EXPERIENCE

Tufts University | Boston, MA/USA
Graduate Researcher (2020–present) – Food Prices for Nutrition (PI: William A. Masters)
- Dissertation in progress investigating the relationships between food group prices, time use, and diet quality.

Organization for Economic Co-operation and Development (OECD) | Paris/France
Consultant (2019–2020) – Trade and Agriculture Directorate (TAD)
- Developed a case study of the processed food sector as part of TAD's work on food systems and the 'triple challenge' (i.e., food security and nutrition, resource use and climate change mitigation, and livelihoods of farmers and other agents connected to the food system).
- Developed a database of international and domestic food and agricultural policies induced by COVID-19.

Global Panel on Agriculture and Food Systems for Nutrition | Remote work
Consultant (2019)
- Analyzed newly available Global Dietary Database estimates of dietary factor intake and generated data visualizations using Stata and ArcMap. These analyses were commissioned in preparation for the Global Panel's second Foresight Report.

Tufts University | Boston, MA/USA; Lilongwe/Malawi
Graduate Researcher (2018–2019) – Food Quality and Child Diets in Central Malawi (PI: William A. Masters)
- Fieldwork and data analysis for 350+ market-intercept surveys with random-price auctions and choice experiments, linked to purchase and laboratory analysis of 90+ samples of infant foods.
  Results presented at ASN & ICABR meetings.

McMaster University | Hamilton, ON/Canada
Graduate Researcher (2014–2016)
- Researched the role of astrocyte function using molecular, cellular, and imaging techniques, generating data leading to the annual renewal of a 5-year $2.5 million research grant (PI: Laurie C. Doering).
- Managed laboratory operations including equipment purchasing, inventory maintenance, documenting animal colonies, preparing and updating protocols, and training new laboratory members.

TEACHING EXPERIENCE

Tufts University | Boston, MA/USA
Teaching Assistant (2018–2021)
- Statistics for Health Professionals I & II (NUTB-0250 & NUTB-0350)
- Economics for Food and Nutrition Policy (NUTB-0238 & NUTR-0238)
- Introductory Human Nutrition (NU-0101)

McMaster University | Hamilton, ON/Canada
Teaching Assistant (2014–2016)
- Human Health and Disease (HTH SCI 1G03)
- Psychobiology (Life Sci 3A03)

Guest Lectures
Simple and multiple logistic regression (Spring 2021)
    Course: NUTB-350—Statistical Methods for Health Professionals II (Tufts University)
Data visualization in Excel (Spring 2018)
    Course: NUTR-0238—Economics for Food and Nutrition Policy (Tufts University)

PUBLICATIONS *(Google scholar: https://tinyurl.com/24y7kpnk)*

Refereed journal articles

Wallingford, J., Masters, W.A. (2024). Least-cost diets to teach optimization and consumer behavior, with applications to health equity, poverty measurement and international development. (*Forthcoming in the Journal of Economic Education).*

Wallingford, J., Martinez, E.M., Masters, W.A. (2023). COVID-19 mobility restrictions and stay-at-home behaviour in 2020 were associated with higher retail food prices worldwide. *Global Food Security,* 37*:*100702. doi: 10.1016/j.gfs.2023.100702

Wallingford, J., Scott, A.L., Rodrigues, K., Doering, L.C. (2017). Altered developmental expression of the astrocyte-secreted factors hevin and SPARC in the fragile X mouse model. *Frontiers in Molecular Neuroscience,* 10:268. doi: 10.3389/fnmol.2017.00268

Wallingford, J.K., Deurveilher, S., Currie, R.W., Fawcett, J.P., Semba, K. (2014). Increases in mature brain-derived neurotrophic factor protein in the frontal cortex and basal forebrain during chronic sleep restriction in rats: possible role in initiating allostatic adaptation. *Neuroscience,* 277:174-183. doi: 10.1016/j.neuroscience.2014.06.067

Working papers, reports

Wallingford, J., Masters, W.A. (2021). Stringency of COVID-19 mobility restrictions are associated with elevated retail food prices: evidence from 150 countries. Selected paper prepared for presentation at the 2021 Agricultural & Applied Economics Association Annual Meeting, Austin, TX.

OECD (2021), "The contribution of the processed food sector to the triple challenge" (lead author: **Wallingford, J**), in Making Better Policies for Food Systems, OECD Publishing, Paris, https://doi.org/10.1787/ddfba4de-en.

Gilbert, R., Subedi, B., **Wallingford, J.**, Wilson, N., Masters, W.A. (2019). Nutrient and mycotoxin content of commercially sold premixed infant cereals in Malawi. MaSSP Working Paper 28. Washington, DC: International Food Policy Research Institute (IFPRI). doi: 10.2499/p15738coll2.133335

Manuscripts in progress

Wallingford, J., de Pee, S., Kuri, S., Bai, Y., Herforth, A., Masters, W.A. (2024). Measuring food access using least-cost diets: Results for global monitoring and targeting of interventions to improve food security, nutrition and health. (*Submitted to Global Food Security*).

PRESENTATIONS, POSTERS

Wallingford, J. What do least-cost nutrient adequate diets reveal about food systems? *(oral presentation)* Tufts Nutrition Data Symposium. March 2023, virtual.

Wallingford, J. COVID-19 and food systems worldwide: linking retail food prices to variation in personal mobility and policy stringency. *(oral presentation)* Tufts Institute for Global Obesity Research (TIGOR) Lightning Talks, December 2021, virtual.

Wallingford, J., Masters, W.A. Stringency of COVID-19 mobility restrictions are associated with elevated retail food prices: evidence from 150 countries. *(oral presentation)* AAEA Annual Meeting. August 2021, Austin, USA.

Wallingford, J., Masters, W.A. Stringency of movement restrictions linked with higher retail food prices but not overall prices for all consumer goods during COVID-19 pandemic. *(oral presentation)* Nutrition 2021. June 2021, virtual.

Wallingford, J. Stringency of COVID-19 movement restrictions are associated with elevated retail food prices: evidence from 133 countries. *(oral presentation)* Tufts Nutrition Data Symposium. March 2021, virtual.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Agricultural and Applied Economics Association (AAEA)
American Society for Nutrition (ASN)

SERVICE

Academic service
- Reviewer for the following journals: *Maternal and Child Nutrition, World Development*
- Tufts University Friedman School, Biostatistics Faculty Search Committee, student member (Fall 2020)
- AAEA Access Taskforce, focus group participant (Spring 2024)

Community service
- Nourri-Source Montréal, breastfeeding support volunteer (Nov 2023–present)

SKILLS

Software: Stata, R, ArcGIS, Excel
Languages: English (native), French (intermediate)