

Hala Ghattas, PhD

Department of Health Promotion, Education and Behavior,
Arnold School of Public Health,
Discovery I, 915 Greene Street, Room 558
University of South Carolina, Columbia,
South Carolina, 29208

Tel: +1 803 777 8462
e-mail: hghattas@mailbox.edu.lb

EDUCATION

- 2001-2004 **Ph.D. in Nutrition and Immunology**
Department of Infectious Diseases, St George's, University of London, London, UK
- 1999-2000 **M.Sc. in Public Health Nutrition** (Awarded with Distinction)
London School of Hygiene and Tropical Medicine, London, UK
- 1995-1999 **B.Sc. in Nutrition and Dietetics** (Awarded with Distinction)
American University of Beirut, Beirut, Lebanon

PROFESSIONAL EXPERIENCE

- August 2022 – present **Associate Professor**
Department of Health Promotion, Education and Behavior, Arnold School of Public Health, University of South Carolina, USA
- 2024 - present **Adjunct Associate Professor**
- 2020 - 2022 **Director & Associate Research Professor**
- 2017 - 2020 **Interim Director & Associate Research Professor**
- 2013 - 2017 **Associate Director & Assistant Research Professor**
Center for Research on Population and Health, Faculty of Health Sciences, American University of Beirut, Lebanon
- 2022 - present **Research Affiliate**
International Security and Development Center, Berlin, Germany
- 2016 - 2021 **Special Member of the Graduate Faculty**
Graduate Program in Nutrition and Food Science, University of Maryland, College Park, MD, USA
- 2016 - 2019 **Visiting Researcher**
Open Lab, Newcastle University, UK
- 2009 - 2013 **Assistant Professor of Community Nutrition**
Department of Nutrition and Food Sciences, Faculty of Agricultural and Food Sciences, American University of Beirut, Lebanon
- 2007 - 2011* **Lecturer**
- 2005 - 2007 **Research Fellow**
MRC International Nutrition Group, Department of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine, UK
- 2001 - 2004 **Graduate Research Assistant**
Department of Infectious Diseases, St George's, University of London, UK

* Full time from 2007-2008, and retained a 5% time Lecturer contract from 2009-2011

RESEARCH

GRANTS AND AWARDS

- 2025-2025 Principal investigator. Nutrition environment assessment and nutritional status of school-aged children in Jordan. UNICEF Jordan. USD 198,746.
- 2024-2026 Co-investigator. Validation of dietary screeners among children in Lebanon. President's Intramural Research Fund, Lebanese American University. USD 49,492.
- 2023-2025 Co-principal investigator. Using complex systems methods to co-produce solutions for how emergency food assistance can prioritise healthy foods for vulnerable populations in Lebanon. Innovative Methods and Metrics for Agriculture and Nutrition Actions (IMMANA- funded by Gates & UK FCDO). GBP 249,798.
- 2022-2025 Co-principal investigator. Understanding and amplifying the role of women's leadership in food systems transformation. International Development Research Center (Canada). USD 741,600.
- 2020-2025 Co-investigator [Lead on the role of food insecurity in older adults]. Dementia and Related Health and Social Challenges in Lebanon: A Population Study. National Institute on Ageing (NIA). USD 3,513,765.
- 2022-2025 Co-investigator. Identifying opportunities to improve the lived experience and health of working women in the MENA: from COVID to recovery. International Development Research Center (Canada). USD 697,023.
- 2020-2024 Co-principal investigator [Lead on social protection and food insecurity]. COVID-19 in Lebanon: Turning a crisis into an opportunity to promote an integrated community approach for more equitable health outcomes for Syrian refugees and their host Lebanese community and to inform public health preparedness in Lebanon and the region. International Development Research Center (Canada). USD 975,652.
- 2020-2023 Co-principal investigator. Seeds for recovery: The long term impacts of a complex agricultural intervention on welfare, behaviour and stability in Syria. Centre of Excellence for Development Impact and Learning (CEDIL) subcontracted through ISDC. GBP 207,228.
- 2018-2023 Principal investigator. Tackling School and Community Drivers of Children's Diets in Arab Cities. International Development Research Center (Canada). USD 1,104,964.
- 2020-2021 Co-principal investigator [Lead on SDGs 1, 2 and 3]. Fostering Knowledge for Human Development in the Arab Region. United Nations Development Program (UNDP). USD 110,000.
- 2019-2020 Co-principal investigator. Identifying a Package of Cost-effective Interventions to Address Non-communicable Diseases in Gaza. MRC Health Systems Research Initiative subcontracted through Imperial College London. USD 60,565.
- 2019-2020 Principal investigator. Evaluation of Emergency School Feeding in Lebanon. World Food Program subcontracted through Particip GmbH. USD 45,589.

- 2018- 2019 Co-investigator. Cash monitoring, evaluation and accountability for Syrian refugees. Norwegian Refugee Council. USD 220,892.
- 2018-2019 Principal investigator. Reproductive, Maternal, Newborn, Child and Adolescent Health and Nutrition in Conflict Settings: The Case of Syrian Women and Children. The Hospital for Sick Children. USD 76,679.
- 2017-2018 Co-investigator. Assessing the results of the enforcement of the salt iodization program in Lebanon. Iodine Global Network. USD 26,680.
- 2017-2018 Co-investigator. Analysis and Refinement of the Targeting Mechanisms for Food and Multipurpose Cash Assistance to Central African Republic (CAR) Refugees in the East, Adamawa and North Regions of Cameroon. UNHCR. USD 32,230.
- 2017-2018 Principal investigator. Cross-Cultural Study of Household Water Insecurity (WIS) Validation of an Arabic Water Insecurity Scale. Northwestern University. USD 15,000.
- 2017-2018 Principal investigator. Food insecurity in the Arab world; inequalities and wellbeing differentials. University Research Board. USD 9,235.
- 2016-2018 Co-principal investigator. Engaging patients in addressing hypertension: Patient experience with self-monitoring of blood glucose. Harvard Medical School Center for Global Health Delivery–Dubai. USD 99,948.
- 2015-2018 Co-principal investigator. Responding to changing health needs in complex emergencies: A policy imperative. Columbia Global Policy Initiative. USD 115,000.
- 2014-2017 Principal investigator. Healthy Kitchens, Healthy Children: A school-based cluster randomized controlled trial. Nestle Foundation. USD 255,430.
- 2016 Principal investigator. The Status of Children and Women in Lebanon: Peer review and data analysis of a UNICEF Household survey. UNICEF Lebanon. USD 46,060.
- 2016 Principal investigator. *Allo Sobtik*: Testing a radio health dialogue to improve access and uptake of antenatal care services by Syrian refugees in rural Lebanon. Newcastle University. USD 2,858.
- 2015-2016 Co-principal investigator. Monitoring and evaluation of salt iodization in Lebanon. Iodine Global Network. USD 43,348.
- 2015-2016 Principal investigator. Food insecurity in the Arab world; youth, gender and wellbeing differentials. FAO Voices of the Hungry Project. Data award: Full dataset of the Gallup World Poll 2014-2015.
- 2015-2016 Principal investigator. Development of a location based application for breastfeeding friendly places in Lebanon. Newcastle University. USD 8,127.
- 2014-2016 Co-principal investigator. Effects of the Syrian conflict on maternal and child health with a focus on Countdown indicators. US Fund for UNICEF as part of a Gates Foundation grant to Countdown to 2015: Maternal, Newborn and Child Survival. USD 49,680.
- 2014-2015 Co-principal investigator. Socio-economic survey for Palestine refugees in Lebanon. UNRWA. USD 60,280.

- 2014-2015 Principal investigator. Design and development to improve uptake and continuity of antenatal care among Syrian refugee women in Lebanon. Newcastle University. USD 7,800.
- 2013 Co-investigator. Glycaemic index of bread: fibre or minerals? American University of Beirut, Faculty of Medicine Innovative Grant Award. USD 10,000.
- 2013 Principal investigator. The role of dietary phosphorus in the development and progression of NAFLD in rats. American University of Beirut, Faculty of Medicine Innovative Grant Award. USD 10,000.
- 2012-2013 Principal investigator. Development of a tool to measure food insecurity in children in Lebanon: Exploring children's experiences of food insecurity. American University of Beirut, University Research Board. USD 7,000.
- 2010-2013 Local investigator. The effect of a school feeding program in Aarsal on nutritional status of children; a component of Food and health in rural Lebanon: Options to improve dietary diversity, food security, livelihoods and ecosystem management. International Development Research Centre grant awarded to IBSAR (AUB Nature Conservation Center). CAD 51,900.
- 2010-2013 Co-investigator. The Nestle Healthy Kids Nutrition Research Fund (Project: Development of a tool to measure food insecurity in children in Lebanon). Nestle Middle East. USD 250,000.
- 2008-2013 Co-investigator. Novel staple food-based strategies to improve micronutrient status for better health and development in sub-Saharan Africa: safety and efficacy of iron fortified maize flour in the prevention of anaemia in pregnant women and infants, European Union FP7 Collaborative Project. EUR 943,160.
- 2011-2012 Co-investigator. Validation of a Lebanese food security assessment tool, WHO-EMRO. USD 8,164.
- 2011-2012 Co-investigator. Mapping the living conditions of UNHCR registered refugees in Lebanon. UNHCR. USD 67,553.
- 2010-2011 Principal investigator. Adiposity and iron status in Lebanese children and adolescents, American University of Beirut, University Research Board. USD 9,000.
- 2010-2011 Co-investigator. Industrial organisation and fresh foods value chains in the Middle East – two case studies from Lebanon and Qatar. Center for International and Regional Studies, Georgetown University School of Foreign Service in Qatar. USD 24,998.
- 2010 Co-investigator. Poverty and food security of Palestine refugees in Lebanon: analysis and targeting. UNRWA. USD 80,000.
- 2009-2010 Principal investigator. Iron deficiency in obesity: hidden hunger or anaemia of inflammation? American University of Beirut, University Research Board. USD 4,122.
- 2007-2008 Principal investigator. Insecticide treated bednets to reduce malaria morbidity in central Côte d'Ivoire. Private funder – Small project grant. GBP 20,000.

2006-2008 Co-investigator. Anaemia in pregnant Zanzibari women: do common genetic polymorphisms affecting iron metabolism explain differential responses to iron supplementation? Wellcome Trust. GBP 145,618.

PEER-REVIEWED PUBLICATIONS

1. Jamaluddine Z, Suarez Idueta L, Paixao ES, Pescarini JM, **Ghattas H**, Sato M, Seita A, Martinez-Juarez LA, Barreto ML, Ohuma EO, Day LT, Campbell OMR, Blencowe H. Post-term births as a risk factor for small for gestational age and infant mortality in Brazil, Mexico, and Palestinian refugees: an analysis of electronic birth records. *Paediatric and Perinatal Epidemiology* 2024; doi: 10.1111/ppe.13137.
2. Ragi ME, **Ghattas H**, Shamas H, DeJong J, Melhem NM, McCall SJ, Germani A, El-Jardali F. Development of Prediction Models of COVID-19 Vaccine Uptake among Lebanese and Syrians in a district of Beirut, Lebanon: a population-based study. *BMJ Public Health*. 2024;2(2).
3. Frongillo EA, Bethancourt HJ, Miller JD, Young SL, Household Water Insecurity Experiences Scales (**HWISE**)-Research Coordination Network (**RCN**). Identifying ordinal categories for the Water Insecurity Experiences Scales. *Journal of Water, Sanitation and Hygiene for Development*. 2024;14(11):1066-78.
4. Abi Zeid B, Farouki L, El Khoury T, Sibai AM, de Leon CF, Alawieh MF, Ramadan Z, Abdulrahim S, **Ghattas H**, McCall SJ. Predicting poor mental health among older Syrian refugees in Lebanon during the COVID-19 pandemic: a nested cross-sectional study. *BMJ Global Health*. 2024;9(8):e015069.
5. Baliki G, Al Daccache M, **Ghattas H**, Brück T. Short-and medium-term impacts of small-scale vegetable support on food security: evidence from Syria. *Food Security*. 2024;14:1-2.
6. Assaad M, Ajjour S, Rahme M, Al-Shaar L, Sakr M, **Ghattas H**, Fuleihan GE, Jabbour J. Development and Validity of the 'Modified Mediterranean Prime Screen' to assess Dietary Intake Among Women of Reproductive Age in Lebanon. *British Journal of Nutrition*. 2024; 31:1-23.
7. Basu S, Yudkin JS, Jawad M, **Ghattas H**, Hamad BA, Jamaluddine Z, Safadi G, Ragi ME, Ahmad RE, Vamos EP, Millett C. Reducing non-communicable diseases among Palestinian populations in Gaza: A participatory comparative and cost-effectiveness modeling assessment. *PLOS Global Public Health*. 2024;4:e0003168.
8. Al Daccache M, Abi Zeid B, Hojeij L, Baliki G, Brück T, **Ghattas H****. Systematic review on the impacts of agricultural interventions on food security and nutrition in complex humanitarian emergency settings. *BMC nutrition*. 2024;10:60.
9. El Salibi N, Abdulrahim S, El Haddad M, Abi Zeid B, Alawieh MF, Ramadan Z, **Ghattas H**, McCall SJ. Predicting intention to vaccinate against COVID-19 in older Syrian refugees in Lebanon: findings from a multi-wave study. *Vaccine*. 2024;42:2646-54.
10. Makoukji M, Amhez NE, Yehya AA, **Ghattas H**, Abunnasr Y, Zurayk R. Food systems under shock: the evolution of food security status of Karantina residents after the Beirut explosion. *Frontiers in Sustainable Food Systems*. 2024;8:1351541.
11. Akl C, El-Helou N, Safadi G, Semaan A, El Sammak A, Trabelsi T, Sassi S, Akik C, El Ati J, Traissac P, **Ghattas H**** & the SCALE Research Group. Urban school neighborhoods dominated by unhealthy food retailers and advertisements in Greater Tunis: a geospatial study

in the midst of the nutrition transition. *Public Health Nutrition*. 2024;27:e44.

12. Jamaluddine Z, Seita A, Ballout G, Al-Fudoli H, Paolucci G, Albaik S, Ibrahim R, Sato M, **Ghattas H**, Campbell O. Establishment of a birth-to-education cohort of 1 million Palestinian refugees using electronic medical records and electronic education records. *International Journal of Population Data Science*. 2023;8(1).
13. Abu Hamad BA, Jamaluddine Z, Safadi G, Ragi ME, Ahmad RE, Vamos EP, Basu S, Yudkin JS, Jawad M, Millett C, **Ghattas H****. The hypertension cascade of care in the midst of conflict: the case of the Gaza Strip. *Journal of Human Hypertension*. 2023;37:957-68.
14. Jamaluddine Z, Sharara E, Helou V, El Rashidi N, Safadi G, El-Helou N, **Ghattas H**, Sato M, Blencowe H, Campbell OM. Effects of size at birth on health, growth and developmental outcomes in children up to age 18: an umbrella review. *Archives of Disease in Childhood*. 2023;108:956-69.
15. Jamaluddine Z, Safadi G, Irani A, Salti N, Chaaban J, Abdulrahim S, Thomas A, **Ghattas H****. Inequalities in Wellbeing in Lebanese Children and Different Refugee Subpopulations: A Multidimensional Child Deprivation Analysis. *Child Indicators Research*. 2023; 6:1-9.
16. Salti N, McCall SJ, Abi Zeid B, El Salibi N, Alawieh M, Ramadan Z, **Ghattas H**, Abdulrahim S. The determinants of sustained adherence to COVID-19 preventive measures among older Syrian refugees in Lebanon. *Plos one*. 2023;18:e0268851.
17. Abi Zeid B, El Khoury T, **Ghattas H**, Alawieh MF, Ramadan Z, Anouti S, Abdulrahim S, McCall SJ. Predictors and barriers to vaccination among older Syrian refugees in Lebanon: a cross-sectional analysis of a multi-wave longitudinal study. *The Lancet Healthy Longevity*. 2023;4:e219-27.
18. Elbassuoni S, **Ghattas H**, El Ati J, Zoughby Y, Semaan A, Akl C, Trabelsi T, Talhouk R, Ben Gharbia H, Shmayssani Z, Mourad A. Capturing children's food exposure using wearable cameras and deep learning. *PLOS Digital Health*. 2023;2:e0000211.
19. McCall SJ, El Khoury TC, **Ghattas H**, Elbassuoni S, Murtada MH, Jamaluddine Z, Haddad C, Hussein A, Krounbi A, DeJong J, Khazaal J. Maternal and infant outcomes of Syrian and Palestinian refugees, Lebanese and migrant women giving birth in a tertiary public hospital in Lebanon: a secondary analysis of an obstetric database. *BMJ open*. 2023; 13: e064859.
20. Sheikomar OB, **Ghattas H**, Sahyoun NR. Relationship between Live-In Grandparents and Grandchild's Health and Well-Being in Palestinian Refugees in Lebanon. *International Journal of Environmental Research and Public Health*. 2023; 20:370.
21. Elbassuoni S, **Ghattas H**, El Ati J, Shmayssani Z, Katerji S, Zoughbi Y, Semaan A, Akl C, Gharbia HB, Sassi S. DeepNOVA: A Deep Learning NOVA Classifier for Food Images. *IEEE Access*. 2022.
22. Lin TK, Kafri R, Hammoudeh W, Mitwalli S, Jamaluddine Z, **Ghattas H**, Giacaman R, Leone T. Pathways to food insecurity in the context of conflict: the case of the occupied Palestinian territory. *Conflict and Health*. 2022;16:1-9.
23. McCall SJ, El Khoury T, Salibi N, Abi Zeid B, El Haddad M, Alawieh MF, Abdulrahim S, Chaaya M, **Ghattas H**, Sibai AM. Development of a Prediction Model for the Management of Noncommunicable Diseases Among Older Syrian Refugees Amidst the COVID-19 Pandemic in Lebanon. *JAMA network open*. 2022;5: e2231633.
24. Valente de Almeida S, Paolucci G, Seita A, **Ghattas H**. Co-payments and equity in care:

enhancing hospitalisation policy for Palestine refugees in Lebanon. *BMC health services research*. 2022; 22: 1-9.

25. **Ghattas H****, Jamaluddine Z, Semaan A, El-Helou N, Safadi G, Elghossain T, Akl C, Elbassuoni S, Chalak A, El Ati J, SCALE Research Group. School and community drivers of child diets in two Arab cities: The SCALE protocol and innovative tools to assess children's food environments. *Plos One*. 2022; 17: e0264963.
26. Haddad J, Chaaban J, Chalak A, **Ghattas H**. Does Income Class Affect Life Satisfaction? New Evidence from Cross-Country Microdata. *Social Sciences*. 2022; 11:262.
27. Frongillo EA, Fram MS, **Ghattas H**, Bernal J, Jamaluddine Z, Kirkpatrick SI, Hammond D, Aurino E, Wolf S, Goudet SM, Nyawo M. Development, Validity, and Cross-Context Equivalence of the Child Food Insecurity Experiences Scale for Assessing Food Insecurity of School-Age Children and Adolescents. *The Journal of Nutrition*. 2022; 152: 2135–2144.
28. Jamaluddine Z, Akik C, Safadi G, Abou Fakher S, El-Helou N, Moussa S, Anid D, **Ghattas H****. Does a school snack make a difference? An evaluation of the World Food Programme emergency school feeding programme in Lebanon among Lebanese and Syrian refugee children. *Public Health Nutrition*. 2022; 25:1678-90.
29. Akik C, Asfahani F, Elghossain T, Mesmar S, Rabkin M, El Sadr W, Fouad FM, **Ghattas H****. Healthcare system responses to non-communicable diseases' needs of Syrian refugees: The cases of Jordan and Lebanon. *Journal of migration and health*. 2022;6:100136.
30. Stevenson K, Holtermann-Entwistle O, Alameddine R, **Ghattas H**, DeJong J, Singh N, Usta J. Prioritising women's and girls' health in disaster settings: Lessons from the COVID-19 pandemic and the overlapping crises affecting Beirut, Lebanon. *Global Public Health*. 2022; 17: 794-9.
31. Saad GE, **Ghattas H**, Wendt A, Hellwig F, DeJong J, Boerma T, Victora C, Barros AJ. Paving the way to understanding female-headed households: Variation in household composition across 103 low-and middle-income countries. *Journal of global health*. 2022; 12: 04038.
32. Talhouk R, Montague K, **Ghattas H**, Araujo-Soares V, Ahmad B, Balaam M. Refugee Food Insecurity & Technology: Surfacing Experiences of Adaptation, Navigation, Negotiation and Sharing. *Computer Supported Cooperative Work (CSCW)*. 2022; 1-32.
33. Moussa W, Salti N, Irani A, Al Mokdad R, Jamaluddine Z, Chaaban J, **Ghattas H**. The impact of cash transfers on Syrian refugee children in Lebanon. *World Development*. 2022; 150:105711.
34. Salti N, Chaaban J, Moussa W, Irani A, Al Mokdad R, Jamaluddine Z, **Ghattas H**. The impact of cash transfers on Syrian refugees in Lebanon: Evidence from a multidimensional regression discontinuity design. *Journal of Development Economics*. 2021:102803.
35. Salibi N, Abdulrahim S, El Haddad M, Bassil S, El Khoury Z, **Ghattas H**, McCall SJ. COVID-19 vaccine acceptance in older Syrian refugees: preliminary findings from an ongoing study. *Preventive medicine reports*. 2021; 24:101606.
36. **Ghattas H****, Jamaluddine Z, Akik C. Double burden of malnutrition in children and adolescents in the Arab region. *The Lancet Child & Adolescent Health*. 2021;5(7):462-4.
37. Shaker-Berbari L, Qahoush Tyler V, Akik C, Jamaluddine Z, **Ghattas H**. Predictors of complementary feeding practices among children aged 6–23 months in five countries in the

Middle East and North Africa region. *Maternal & Child Nutrition*. 2021:e13223.

38. Sheikomar OB, Dean W, **Ghattas H**, Sahyoun NR. Validity of the Food Insecurity Experience Scale (FIES) for use in League of Arab States (LAS) and Characteristics of Food Insecure Individuals by Human Development Index (HDI). *Current Developments in Nutrition*. 2021(4):nzab017.
39. Singh NS, Ataullahjan A, Ndiaye K, Das JK, Wise PH, Altare C, Ahmed Z, Sami S, Akik C, Tappis H, Mirzazada S, Garcés-Palacio C, **Ghattas H**, Langer A, Waldman RJ, Spiegel P, Bhutta ZA, Blanchet K and the BRANCH Consortium Steering Committee. Delivering health interventions to women, children, and adolescents in conflict settings: What have we learned from ten country case studies?. *The Lancet*. 2021;397(10273):533-42.
40. Stoler J, Miller JD, Brewis A, Freeman MC, Harris LM, Jepson W, Pearson AL, Rosinger AY, Shah SH, Staddon C, Workman C. and the **HWISE Research Coordination Network**. Household Water Insecurity Will Complicate the Ongoing COVID-19 Response: Evidence from 29 Sites in 23 Low-and Middle-Income Countries. *International Journal of Hygiene and Environmental Health*. 2021: 113715.
41. Watt G, Giacaman R, Zurayk H, Bjertness E, Holmboe-Ottesen G, **Ghattas H**, Nuwayhid I, Leaning J, Yudkin JS, Elessi K, Sullivan R. COVID-19 vaccines for Palestinians. *The Lancet*. 2021;397(10273):579.
42. Moussa W, Irani A, Salti N, Al Mokdad R, Jamaluddine Z, Chaaban J, **Ghattas H**. The Impact of Cash Transfers on Syrian Refugee Children in Lebanon. *Economic Research Forum Working Paper* 2021.
43. Jamaluddine Z, Choufani J, Masterson AR, Hoteit R, Sahyoun NR, **Ghattas H****. A Community-Based School Nutrition Intervention Improves Diet Diversity and School Attendance in Palestinian Refugee Schoolchildren in Lebanon. *Current developments in nutrition*. 2020;4(11):nzaa164.
44. Talhouk R, Akik C, Araujo-Soares V, Ahmad B, Mesmar S, Olivier P, Balaam M, Montague K, Garbett A, **Ghattas H**. Integrating Health Technologies in Health Services for Syrian Refugees in Lebanon: A Qualitative Study. *Journal of Medical Internet Research*. 2020;22(7):e14283.
45. Talhouk RR, Coles-Kemp L, Jensen RB, Balaam M, Garbett A, **Ghattas H**, Araujo-Soares V, Ahmad B, Montague K. Food Aid Technology: The Experience of a Syrian Refugee Community in Coping with Food Insecurity. *Proceedings of the ACM: Human Computer Interaction*. 2020 ;4(CSCW2):134.
46. Akik C, Semaan A, Shaker-Berbari L, Jamaluddine Z, Saad GE, Lopes K, Constantin J, Ekzayez A, Singh NS, Blanchet K, DeJong J, **Ghattas H****. Responding to health needs of women, children and adolescents within Syria during conflict: intervention coverage, challenges and adaptations. *Conflict and Health*. 2020;14(1):1-9.
47. Sahyoun NR, Sassine A, Vaudin A, Sakr-Ashour F, **Ghattas H**. Living arrangements and food security of a sample of older Palestinian refugees in Lebanon. *Journal of Global Health Reports*. 2020;4:e2020051.
48. Akl C, Akik C, **Ghattas H**, Obermeyer CM. The cascade of care in managing hypertension in the Arab world: a systematic assessment of the evidence on awareness, treatment and control. *BMC Public Health*. 2020;20(1):1-3.
49. Stoler J, Pearson AL, Staddon C, Wutich A, Mack E, Brewis A, Rosinger AY, Adams E,

- Ahmed JF, Alexander M, Balogun M, **HWISE Research Coordination Network**. Cash water expenditures are associated with household water insecurity, food insecurity, and perceived stress in study sites across 20 low-and middle-income countries. *Science of the Total Environment*. 2020;716:135881.
50. **Ghattas H**, Acharya Y, Jamaluddine Z, Assi M, El Asmar K, Jones AD. Child-level double burden of malnutrition in the MENA and LAC regions—Prevalence and social determinants. *Maternal & Child Nutrition*. 2019; e12923.
 51. Sahyoun NR, Jamaluddine Z, Choufani J, Mesmar S, Reese-Masterson A, **Ghattas H****. A mixed-methods evaluation of community-based healthy kitchens as social enterprises for refugee women. *BMC Public Health*. 2019; 19(1):1-1.
 52. **Ghattas H**, Choufani J, Jamaluddine Z, Masterson AR, Sahyoun NR. Linking women-led community kitchens to school food programmes: lessons learned from the Healthy Kitchens, Healthy Children intervention in Palestinian refugees in Lebanon. *Public health nutrition*. 2020;23:914-23.
 53. Jamaluddine Z, Sahyoun NR, Choufani J, Sassine AJ, **Ghattas H****. Child-Reported Food Insecurity Is Negatively Associated with Household Food Security, Socioeconomic Status, Diet Diversity, and School Performance among Children Attending UN Relief and Works Agency for Palestine Refugees Schools in Lebanon. *The Journal of nutrition*. 2019; 149(12):2228-35.
 54. Stoler J, Pearson AL, Staddon C, Wutich A, Mack E, Brewis A, Rosinger AY, Adams E, Ahmed JF, Alexander M, Balogun M, **HWISE Research Coordination Network**. Cash water expenditures are associated with household water insecurity, food insecurity, and perceived stress in study sites across 20 low-and middle-income countries. *Science of The Total Environment*. 2019; 135881.
 55. Young SL, Boateng GO, Jamaluddine Z, Miller JD, Frongillo EA, Neilands TB, Collins SM, Wutich A, Jepson WE, Stoler J, **HWISE Research Coordination Network**. The Household Water InSecurity Experiences (HWISE) Scale: development and validation of a household water insecurity measure for low-income and middle-income countries. *BMJ global health*. 2019; 4(5):e001750.
 56. Brewis A, Workman C, Wutich A, Jepson W, Young S, **HWISE Research Coordination Network**. Household water insecurity is strongly associated with food insecurity: Evidence from 27 sites in low-and middle-income countries. *American Journal of Human Biology*. 2019; e23309.
 57. Talhouk R, Montague K, Garbett A, Araújo-Soares V, Akik C, **Ghattas H**, Ahmad B, Balaam M. A Call For Embedding Dignity In Humanitarian Technologies. In *Proceedings of the 9th International Conference on Communities & Technologies-Transforming Communities 2019 Jun 3* (pp. 1-4). ACM.
 58. Akik C, **Ghattas H****, Mesmar S, Rabkin M, El-Sadr WM, Fouad FM. Host country responses to non-communicable diseases amongst Syrian refugees: a review. *Conflict and Health*. 2019; 13 (1):8.
 59. Najem Y, Elhadj IH, Dawy Z, Germani A, **Ghattas H**, Zaman M, Yazdi Y. Humanitarian Engineering Design for Health Challenges: An Inter-faculty Service Based Learning Model. *International Journal for Service Learning in Engineering, Humanitarian Engineering and Social Entrepreneurship*. 2019; 14(2):16-32.
 60. Young SL, Collins SM, Boateng GO, Neilands TB, Jamaluddine Z, Miller JD, Brewis AA,

Frongillo EA, Jepson WE, Melgar-Quiñonez H, Schuster RC, **HWISE Research Coordination Network**. Development and validation protocol for an instrument to measure household water insecurity across cultures and ecologies: the Household Water InSecurity Experiences (HWISE) Scale. *BMJ open*. 2019; 9(1).

61. Talhouk R, Montague K, Garbett A, Araújo-Soares V, Akik C, **Ghattas H**, Ahmad B, Balaam M. A Call For Embedding Dignity In Humanitarian Technologies. In Proceedings of the 9th International Conference on Communities & Technologies-Transforming Communities 2019 (pp. 1-4). ACM.
62. Elghossain T, Bott S, Akik C, **Ghattas H**, Obermeyer CM. Prevalence of key forms of violence against children and adolescents in the Arab region: A systematic review. *Journal of Adolescent Health*. 2019; 64(1):8-19.
63. Asfahani F, Kadiyala S, **Ghattas H****. Food insecurity and subjective wellbeing among Arab youth: data from the Gallup World Poll 2014-2015. *Journal of Adolescent Health*. 2019; 64(1):70-78.
64. Wambogo EA, **Ghattas H**, Leonard KL, Sahyoun NR. Validity of the Food Insecurity Experience Scale for Use in Sub-Saharan Africa and Characteristics of Food-Insecure Individuals. *Current developments in nutrition*. 2018; 2(9):nzy062.
65. Sharara E, Akik C, **Ghattas H**, Obermeyer CM. Physical Inactivity, gender and culture in the Arab world: A regional review. *BMC Public Health*. 2018; 18(1):639.
66. Chaaban J, **Ghattas H**, Irani A, Thomas A. Targeting mechanisms for cash transfers using regional aggregates. *Food Security*. 2018; 1-16.
67. Shaker-Berbari L, **Ghattas H**, Symon AG, Anderson AS. Infant and young child feeding in emergencies: Organisational policies and activities during the refugee crisis in Lebanon. *Maternal & child nutrition*. 2018; e12576.
68. **Ghattas H****, Sassine AJ, Aqeel M, Hwalla N, Obeid OA, Sahyoun NR. Children's experiences of food insecurity in Lebanon: A qualitative study. *Journal of hunger and environmental nutrition* 2018; 13(1):1-12.
69. Blanchet K, El-Zein A, Langer A, Sato M *et al*. Support for UNRWA's survival. *The Lancet*. 2018;392(10152):1009-10.
70. Jaoude JA, Khair D, Dagher H, Saad H, Cherfan P, Kaafarani MA, Jamaluddine Z, **Ghattas H[¥]**. Factors associated with Human Papilloma Virus (HPV) vaccine recommendation by physicians in Lebanon, a cross-sectional study. *Vaccine*. 2018;36(49):7562-7.
71. El Mikati H, Maroun CA, Armache A, Toutonji A, El Najjar M, El-Khatib FM, **Ghattas H[¥]**. Assessing the referral of clients with respiratory symptoms to general physicians: a survey of community pharmacists in Beirut. *International Journal of Pharmacy Practice*. 2018; doi: 10.1111/ijpp.12496.
72. Nadkarni D, Elhadj I, Dawy Z, **Ghattas H**, Zaman MH. Examining the need & potential for biomedical engineering to strengthen health care delivery for displaced populations & victims of conflict. *Conflict and health*. 2017;11(1):20.

[¥] Publication resulting from the supervision of Medical student's research projects (the subject of the research is driven by students' own interests)

** Corresponding author

73. DeJong J, **Ghattas H**, Bashour H, Mourtada R, Akik C, Reese-Masterson A. Reproductive, maternal, neonatal and child health in conflict: a case study on Syria using Countdown indicators. *BMJ Global Health*. 2017;2(3):e000302.
74. Akik C, **Ghattas H**, Filteau S, Knai C. Barriers to breastfeeding in Lebanon: A policy analysis. *Journal of Public Health Policy*. 2017; 38(3):314-326.
75. Akl C, Akik C, **Ghattas H**, Obermeyer CM. Gender disparities in midlife hypertension: a review of the evidence on the Arab region. *Women's Midlife Health*. 2017;3(1):1.
76. Talhouk R, Akik C, Koukaz Y, **Ghattas H**, Balaam M, Montague K, Bartindale T, Olivier P, Araujo-Soares V. Improving the implementation of UN Sustainable Development Goal 3 by enhancing access to healthcare by Syrian refugees through community health shows. *European health Psychologist*. 2017; 19(6):404-7.
77. Talhouk R, Bartindale T, Montague K, Mesmar S, Akik C, Ghassani A, Najem M, **Ghattas H**, Olivier P, Balaam M. Implications of Synchronous IVR Radio on Syrian Refugee Health and Community Dynamics. *Proceedings of the 8th International Conference on Communities and Technologies 2017* (pp. 193-202). ACM.
78. Mesmar S, Talhouk R, Akik C, Olivier P, Elhadj I, Elbassuoni S, Armouch S, Kalot J, Balaam M, Germani A, **Ghattas H****. The impact of digital technology on health of populations affected by humanitarian crises: recent innovations and current gaps. *Journal of public health policy*. 2016;S2:167-200.
79. Salti N, **Ghattas H**. Food insufficiency and food insecurity as risk factors for physical disability among Palestinian refugees in Lebanon: Evidence from an observational study. *Disability and health journal*. 2016. doi:10.1016/j.dhjo.2016.03.003
80. Talhouk R, Mesmar S, Thieme A, Balaam M, Olivier P, Akik C, **Ghattas H****. Syrian Refugees and Digital Health in Lebanon: Opportunities for Improving Antenatal Health. *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems 2016* (pp. 331-342). ACM.
81. El Mallah C, Merhi K, **Ghattas H**, Shatila D, Francis S, Hlais S, Toufeili I, Obeid O. Elevated urinary Na/K ratio among Lebanese elementary school children is attributable to low K intake. *European journal of nutrition*. 2016:1-8.
82. El Mallah C, **Ghattas H**, Shatila D, Francis S, Merhi K, Hlais S, Obeid O. Urinary Magnesium, Calcium, and Phosphorus to Creatinine Ratios of Healthy Elementary School Lebanese Children. *Biological trace element research*. 2016;170(2):264-70.
83. **Ghattas H**, Francis S, El Mallah C, Shatila D, Merhi K, Hlais S, Zimmermann M, Obeid O. Lebanese children are iodine deficient and urinary sodium and fluoride excretion are weak positive predictors of urinary iodine. *European journal of nutrition*. 2015:1-7.
84. Khattab M, Abi-Rached C, **Ghattas H**, Hlais S, Obeid O. Phosphorus ingestion improves oral glucose tolerance of healthy male subjects: a crossover experiment. *Nutrition journal*. 2015;14(1):112. doi: 10.1186/s12937-015-0101-5
85. **Ghattas H****, Sassine AJ, Seyfert K, Nord M, Sahyoun NR. Prevalence and correlates of food insecurity among Palestinian refugees in Lebanon: data from a household survey. *PLoS One*. 2015;10(6):e0130724. doi:10.1371/journal.pone.0130724
86. **Ghattas H****, Sassine AJ, Seyfert K, Nord M, Sahyoun NR. Food insecurity among Iraqi refugees living in Lebanon, ten years after the invasion of Iraq: data from a household survey.

British journal of nutrition. 2014;112(1):70-9.

87. Sahyoun NR, Nord M, Sassine AJ, Hwalla N, Seyert K, **Ghattas H**[‡]. Development and validation of an Arab Family Food Security Scale. *The Journal of nutrition*. 2014;144(5):751-7.
88. Hazim J, Hlais S, **Ghattas H**, Shatila D, Bassil M, Obeid O. Phosphorus supplement alters postprandial lipemia of healthy male subjects: a pilot cross-over trial. *Lipids in health and disease*. 2014; 13(1):109. doi: 10.1186/1476-511X-13-109
89. Ayaso R, **Ghattas H**, Abiad M, Obeid O. Meal pattern of male rats maintained on amino acid supplemented diets: the effect of tryptophan, lysine, arginine, proline and threonine. *Nutrients*. 2014;6(7):2509-22.
90. **Ghattas H**^{**}, Barbour JM, Nord M, Zurayk R, Sahyoun NR. Household food security is associated with agricultural livelihoods and diet quality in a marginalised community of Bedouins. *The Journal of nutrition*. 2013;143(10):1666-71.
91. Zimmermann MB, Chassard C, Rohner F, N'goran EK, Nindjin C, Dostal A, Utzinger J, **Ghattas H**, Lacroix C, Hurrell RF. The effects of iron fortification on the gut microbiota in African children: a randomized controlled trial in Cote d'Ivoire. *The American journal of clinical nutrition*. 2010;92(6):1406-15.
92. Koudou BG, **Ghattas H**, Essé C, Nsanzabana C, Rohner F, Utzinger J, Faragher BE, Tschannen AB. The use of insecticide-treated nets for reducing malaria morbidity among children aged 6-59 months, in an area of high malaria transmission in central Côte d'Ivoire. *Parasites & vectors*. 2010;3(1):1-11. doi: 10.1186/1756-3305-3-91
93. Macallan DC, Asquith B, Zhang Y, de Lara C, **Ghattas H**, Defoiche J, Beverley PCL. Measurement of proliferation and disappearance of rapid turnover cell populations in human studies using deuterium-labelled glucose. *Nature protocols*. 2009;4(9):1313-27.
94. Prentice AM, **Ghattas H**, Doherty CP, Cox SE. Iron metabolism and malaria. *Food and nutrition bulletin*. 2007;28:S524-39.
95. Prentice AM, **Ghattas H**, Cox SE. Host-pathogen interactions: can micronutrients tip the balance? *The Journal of nutrition*. 2007;137(5):1334-7.
96. Cox SE, Doherty C, Atkinson SH, Nweneka CV, Fulford AJ, **Ghattas H**, Rockett KA, Kwiatkowski DP, Prentice AM. Haplotype association between haptoglobin (Hp2) and Hp promoter SNP (A-61C) may explain previous controversy of haptoglobin and malaria protection. *PLoS ONE*. 2007;11;2(4):e362. doi:10.1371/journal.pone.0000362
97. Zhang Y, Wallace DL, de Lara CM, **Ghattas H**, Asquith B, Worth A, Griffin GE, Taylor GP, Tough DF, Beverley PC, Macallan DC. In vivo kinetics of human natural killer cells: the effects of ageing and acute and chronic viral infection. *Immunology*. 2007;121(2):258-65.
98. **Ghattas H**, Wallace DL, Solon JA, Henson SM, Zhang Y, Ngom PT, Aspinall R, Morgan G, Griffin GE, Prentice AM, Macallan DC. Long-term effects of perinatal nutrition on T-lymphocyte kinetics in young Gambian men. *The American journal of clinical nutrition*. 2007;85(2):480-7.
99. **Ghattas H**, Darboe BM, Wallace DL, Griffin GE, Prentice AM, Macallan DC. Measuring lymphocyte kinetics in tropical field settings. *Transactions of the Royal Society of Tropical*

[‡] Senior author

^{**} Corresponding author

Medicine and Hygiene. 2005;99(9):675-85.

100. Macallan DC, Wallace DL, Zhang Y, **Ghattas H**, Asquith B, de Lara C, Worth A, Panayiotakopoulos G, Griffin GE, Tough DF, Beverley PC. B-cell kinetics in humans: rapid turnover of peripheral blood memory cells. *Blood*. 2005;105(9):3633-40.
101. Wallace DL, Zhang Y, **Ghattas H**, Worth A, Irvine A, Bennett AR, Griffin GE, Beverley PC, Tough DF, Macallan DC. Direct measurement of T cell subset kinetics in vivo in elderly men and women. *The Journal of immunology*. 2004;173(3):1787-94.
102. Macallan DC, Wallace D, Zhang Y, De Lara C, Worth AT, **Ghattas H**, Griffin GE, Beverley PC, Tough DF. Rapid turnover of effector-memory CD4(+) T cells in healthy humans. *The Journal of experimental medicine*. 2004;200(2):255-60.
103. Macallan DC, Wallace DL, Irvine AJ, Asquith B, Worth A, **Ghattas H**, Zhang Y, Griffin GE, Tough DF, Beverley PC. Rapid turnover of T cells in acute infectious mononucleosis. *European journal of immunology*. 2003;33(10):2655-65.
104. Macallan DC, Asquith B, Irvine AJ, Wallace DL, Worth A, **Ghattas H**, Zhang Y, Griffin GE, Tough DF, Beverley PC. Measurement and modeling of human T cell kinetics. *European journal of immunology*. 2003;33(8):2316-26.
105. **Ghattas H****, Fulford T, Prentice AM. Effect of moderate anaemia on later mortality in rural African children. *Lancet*. 2003;361(9374):2048-50.
106. Hodgson LM, **Ghattas H**, Pritchitt H, Schwenk A, Payne L, Macallan DC. Wasting and obesity in HIV outpatients. *AIDS*. 2001;15(17):2341-2.

TECHNICAL PUBLICATIONS AND REPORTS

1. United Nations Children's Fund. A Systems Approach to Improving Children's Diets: Learning from lived experience. New York: UNICEF, 2022. (Authors: Hawkes C, Battersby J, Hunter-Adams J, **Ghattas H**, Akl C, El-Helou N, Safadi G, El Ati J, Oliver N, Maramang C, Castro MC, Nkoroi A, Carpio ME, Watson F, Brock J, Spires M.)
2. **Ghattas H****, Mezher N, Zreik T, Nasser N, Salti N, McCall SJ. The impact of COVID-19 on progress towards achieving the SDGs: Using a human development lens to analyse the case of the Arab region. Arab Human Develop Report Research Paper. United Nations Development Programme, New York, 2021.
3. Elhadj I, Abou Mrad L, Germani A, Bardus M, Heinrich D, **Ghattas H**, Dawy Z, Maalouf N, Kamar A. Ma3an-together against corona, the official Lebanese contact tracing app: experience and lessons learned. In Emerging science, frontier technologies, and the SDGs Perspectives from the UN system and science and technology communities, IATT Report for the STI Forum, 2021.
4. Chaaban J, **Ghattas H**, Salti N, Moussa W, Irani A, Jamaluddine Z, Al Mokdad R. Multi-Purpose Cash Assistance in Lebanon: Impact Evaluation on the Well-Being of Syrian Refugees. American University of Beirut Press, 2020.
5. **Ghattas H****, Elghossain T, Krisht G. Food Systems for Healthy Diets in the Near East and North Africa. Food and Agriculture Organisation, Cairo, 2019.
6. **Ghattas H****, Jamaluddine Z, Akik C. Actions to address malnutrition in all its forms among refugees in Lebanon in: 2018 Global Nutrition Report: Shining a light to spur action on nutrition. Development Initiatives, Bristol, 2018.

7. Chaaban J, Salti N, **Ghattas H**, Irani A, Ismail T, Batlouni L. Survey on the socioeconomic status of Palestine refugees in Lebanon 2015: AUB and UNRWA, Beirut, 2016[§].
8. **Ghattas H**. Food security and nutrition in the context of the global nutrition transition. Technical Paper. FAO, Rome, 2014.
9. **Ghattas H****, Shaker-Berbari L, Obeid OA. The impact of the NiE regional training initiative: the Lebanon experience 2010-2014. *Field Exchange*. 2014; 48:67-74.
10. Reese-Masterson A, **Ghattas H****, Fouad FM. The potential role of local academia in protracted crises – the example of the American University of Beirut. *Field Exchange*. 2014; 48: 61-5.
11. **Ghattas H** & Sahyoun N. Food Security of Palestinian Refugees Living in Lebanon. In Chaaban, **Ghattas**, Habib, Hanafi, Sahyoun et al. *Socio-Economic Survey of Palestinian Refugees in Lebanon: UNRWA, Beirut, 2011*.

POLICY DOCUMENTS

1. Baliki G, Weiffen D, Al Daccache M, Kayaoglu A, Sujud L, Jaafar H, **Ghattas H**, Brück T. Seeds for recovery: The long-term impacts of a complex agricultural intervention on welfare, behaviour and stability in Syria (SEEDS) | CEDIL research project paper 7. Berlin, 2023.
2. Akik C, El Bawab L, **Ghattas H**, Obeid O, El-Jardali, F. K2P Dialogue Summary: Informing Salt Iodization Policies in Lebanon to Ensure Optimal Iodine Nutrition. Knowledge to Policy (K2P) Center. Beirut, Lebanon; 2016.
3. Akik C, El-Mallah C, **Ghattas H**, Obeid O, El-Jardali F, K2P Policy Brief: Informing Salt Iodization Policies in Lebanon to Ensure Optimal Iodine Nutrition. Knowledge to Policy (K2P) Center, Beirut, Lebanon; 2016.
4. Akik C, **Ghattas H**, El-Jardali F. K2P Briefing Note: Protecting breastfeeding in Lebanon. Knowledge to Policy (K2P) Center. Beirut, Lebanon; 2015.

BOOK CHAPTERS

1. Tan A, Adanacioglu N, Ay ST, Batal M, **Ghattas H**, Talhouk S. Where the wild things are. In *Agrobiodiversity, School Gardens and Healthy Diets*. Routledge, 2020 (pp. 267-275).
2. Seyfert K, Chaaban J, **Ghattas H**. Food security and the supermarket transitions in the Middle East: Two case studies. In Kamrava M, Babar Z, Woertz E, Harrigan J, Bush R, Salami H, Mohtashami T, Naeini MS, Mundy M, Al-Hakimi A, Pelat F. *Food security and food sovereignty in the Middle East*. Georgetown University, 2012.
3. Musaiger AO, **Ghattas H**, Hassan AS, Obeid O. Nutrition and food security : The Arab world in transition. In Jabbour S, Giacaman R, Khawaja M, Nuwayhid I, Yamout R. *Public Health in the Arab World*. Cambridge: Cambridge University Press, 2012.
4. **Ghattas H**. Infection: Nutritional Interactions. In Caballero B, Allen LH, Prentice AM. *Encyclopedia of Human Nutrition*. London: Academic Press, 2005.

** Corresponding author

[§] Includes five chapters as first author.

CONFERENCE CONTRIBUTIONS

1. Dagher M, Saad G, Abboud A, Itani R, **Ghattas H**, McCall S. The impact of chronic diseases on labour force attrition during concurrent crises in Lebanon: a national cross-section survey in Lebanon. *J Epidemiol Community Health* 2024;78:A93-A94.
2. Ragi ME, **Ghattas H**, Abi Zeid B, Salibi N, Abdulrahim S, McCall S. Legal residency status and its relationship with health indicators among older adults Syrians refugees in Lebanon: a nested cross-sectional study. *J Epidemiol Community Health* 2024;78:A70.
3. Shamas H, Dagher M, Abboud A, Itani R, Saad G, **Ghattas H**, McCall S, WOMENA Study Group. Association of workplace violence with self-reported physical and mental health in Lebanon: a national cross-sectional study. *J Epidemiol Community Health* 2024;78:A28.
4. Abi Zeid B, El Khoury T, Abdulrahim S, **Ghattas H**, McCall S. Predicting COVID-19 infection among older Syrian refugees in Lebanon: a multi-wave telephone survey. *J Epidemiol Community Health* 2024;78:A69-A70.
5. Saad G, Dagher M, Abboud A, Itani R, **Ghattas H**, McCall S. Exploring unpaid labor and mental health in Lebanon: a national cross sectional study. *J Epidemiol Community Health* 2024;78:A92.
6. Dagher M, Itani R, McCall S, Saad G, Abboud A, **Ghattas H**, Womena Study Group. The Interplay Between Gender, Employment Attrition During COVID, and Food Insecurity: A National Telephone Survey in Lebanon. *Current Developments in Nutrition*. 2024 Jul 1;8.
7. Ragi ME, Shamas H, McCall S, Akl C, El Ati J, **Ghattas H**. Developing and Validating a Model for Predicting Child and Adolescent Obesity in Greater Beirut, Lebanon: A Population and School-Based Study. *Current Developments in Nutrition*. 2024 Jul 1;8.
8. **Ghattas H**, Chalak A, Haddad J, Akl C, El-Helou N, El Ati J. What Drives Schoolchildren's Food Choices? Insights From a Gamified Choice Experiment in Tunisia. *Current Developments in Nutrition*. 2024 Jul 1;8.
9. Ragi ME, Akl C, Haber M, El Sammak A, Traissac P, El Ati J, **Ghattas H**. Sugar-Sweetened Beverage Consumption Is Associated With School Neighborhood Food Environment and Unhealthy Food Consumption in Urban Schoolchildren in Lebanon and Tunisia. *Current Developments in Nutrition*. 2024 Jul 1;8.
10. Haber M, Ragi ME, Akl C, El Sammak A, El Ati J, **Ghattas H**. Individual and School-level Factors Associated With Non-Communicable Disease Risk Score Among Urban Schoolchildren in Lebanon: A Multi-Level Analysis. *Current Developments in Nutrition*. 2024 Jul 1;8.
11. **Ghattas H**, El Sammak A, Abi Zeid B, Ngwa CH, Kabalan M, Sibai AM, McCall S, Elbejjani M, De Leon CM. Association Between Food Insecurity and Cognitive Performances in Older Adults: Findings From a Nested-Cross Sectional Study in Lebanon. *Current Developments in Nutrition*. 2024 Jul 1;8.
12. Saad G, **Ghattas H**, DeJong J, Barros A. Gender inequality and child health: intersections between household headship and deprivation across low-and middle-income countries. *J Epidemiol Community Health* 2023: 77 (Suppl 1), A70.
13. McCall S, Abi Zeid B, El Khoury T, Chaaya M, Sibai A, Anouti S, Ramadan Z, **Ghattas H**, Abdulrahim S, Farouki L. Development and validation of a model predicting poor mental health amongst older Syrian refugees in Lebanon during the COVID-19 pandemic: a repeated cross-sectional analysis. *J Epidemiol Community Health* 2023: 77 (Suppl 1), A51.

14. Ragi ME, Zayoud D, **Ghattas H**, DeJong J, Germani A, Melhem N, Sidani F, Abou Samra J, Ejreiss N, McCall S. COVID-19 vaccination hesitancy among Syrian Refugees in a suburb of Beirut, Lebanon: A nested cross-sectional study. *J Epidemiol Community Health* 2023; 77 (Suppl 1), A104.
15. Saad G, **Ghattas H**, DeJong J, Barros A. Causes of the causes of maternal and child health: how household headship and women's empowerment determine multiple deprivation. *J Epidemiol Community Health* 2023; 77 (Suppl 1), A44-A45.
16. Safadi G, El-Helou1 N, Akl C, Ragi ME, El Ati J, **Ghattas H****. Children's household food insecurity and their home food environments: a cross-sectional study from Lebanon. 10th International Conference on Nutrition and Growth, London, UK, 2023.
17. El-Helou N, Safadi G, Akik C, Akl C, El Sammak A, Elbassuoni S, El Ati J, **Ghattas H****. Measuring adolescents' food exposures using a wearable camera: experiences and lessons learned from Lebanon. 10th International Conference on Nutrition and Growth, London, UK, 2023.
18. El Sammak A, Akl C, El-Helou N, Safadi G, Ragi ME, **Ghattas H****. School neighborhood built food environment in urban Lebanon is obesogenic: data from a ground truthing study. 10th International Conference on Nutrition and Growth, London, UK, 2023.
19. Akl C, El-Helou N, Safadi G, Semaan A, Trabelsi T, Akik C, El Ati J, Traissac P, **Ghattas H****, and the SCALE Study Team. School neighborhood food environments in Greater Tunis: Predominance of unhealthy food retailers and food advertisements. *Agriculture, Nutrition and Health*, 2022.
20. El Salibi N, Abdulrahim S, El Haddad M, Bassil S, El Khoury Z, **Ghattas H**, McCall S. COVID-19 vaccine acceptance in older syrian refugees in Lebanon: preliminary findings from a longitudinal survey. *J Epidemiol Community Health* 2021; 75 (Suppl 1), A87.
21. Saad G, DeJong J, **Ghattas H**, Barros A, Wendt A, Hellwig F. Female-Headed Households: Gender and Health Inequalities. *International Journal of Epidemiology*. 2021 Sep;50(Supplement_1):dyab168-575.
22. Jamaluddine Z, Irani A, Salti N, Abdulrahim S, Chaaban J, El-Asmar K, **Ghattas H****. Child deprivation among Palestinian refugees in Lebanon and Palestinian refugees from Syria living in Lebanon: a cross-sectional analysis of co-occurrence of deprivation indicators. *The Lancet*. 2021; 398:S32.
23. Lin TK, Kafri R, Hammoudeh W, Mitwalli S, Jamaluddine Z, **Ghattas H**, Giacaman R, Leone T. Food insecurity in the context of conflict: analysis of survey data in the occupied Palestinian territory. *The Lancet*. 2021;398:S35.
24. Valente de Almeida S, Ghattas H, Pita Barros P. No ordinary leaders-Analysing female-headed households in Palestine refugee camps. *European Journal of Public Health*. 2020 Sep;30(Supplement_5):ckaa165-826.
25. Valente de Almeida SV, **Ghattas H**, Paolucci G, Seita A. Times of change in complex environments-Evaluating hospital co-payments in Palestine refugee camps. *European Journal of Public Health*. 2020 Sep;30(Supplement_5):ckaa166-1252.
26. Jamaluddine Z, Irani A, Moussa W, Mokdad RA, Chaaban J, Salti N, **Ghattas H****. The Impact of Dosage Variability of Multi-Purpose Cash Assistance on Food Security in Syrian Refugees in Lebanon. *Current Developments in Nutrition*. 2020 Jun;4(Supplement_2):846-.
27. Semaan A, Zoughby Y, Akl C, Talhouk R, Gharbia HB, Doggui R, Elbassuoni S, Ati JE, **Ghattas**

- H****. Developing an innovative Tool to Quantify Schoolchildren's Exposure to Obesogenic Environments. *Current Developments in Nutrition*. 2020 Jun;4(Supplement_2):1178-.
28. Akik C, Fouad F, Rabkin M, El Sadr W, **Ghattas H****. Healthcare system responses to Syrian refugees' needs for non-communicable diseases care: the cases of Jordan, Lebanon and Turkey. The Global Syrian Refugee Conference, Gaziantep, October 2019 (*oral presentation*).
 29. **Ghattas H**. Interdisciplinary Research Collaborations in contexts of Forced Displacement. Boston University Conference on The Role of the University in the Crisis of Forced Displacement: Ethics, Innovation, and Immersive Learning, Boston, September 2019 (*oral presentation*).
 30. **Ghattas H**. Ethical Considerations in humanitarian technologies. Boston University Conference on The Role of the University in the Crisis of Forced Displacement: Ethics, Innovation, and Immersive Learning, Boston, September 2019 (*oral presentation*).
 31. **Ghattas H**, Chaaban J, Salti N, Jamaluddine Z, Irani A, Abdulrahim S, El Asmar K. Child deprivation among Palestinian refugees and Palestinian refugees from Syria living in Lebanon: A cross-sectional overlapping deprivation analysis. Abstract from the Lancet Palestinian Health Alliance Conference on "The Health of Palestinians Inside and Outside the Occupied Palestinian Territory", Amman, March 2019 (*oral presentation*).
 32. Jamaluddine Z, Chaaban J, Salti N, Jamaluddine Z, Irani A, Abdulrahim S, El Asmar K, **Ghattas H**. Child Deprivation among Lebanese and Three Refugee Subpopulations Living in Lebanon: Palestinian Refugees, Palestinian Refugees from Syria and Syrian Refugees; A National Multiple Overlapping Deprivation Analysis. Abstract from the XII International Epidemiological Association- EMR, Beirut, February 2019 (*oral presentation*).
 33. **Ghattas H**, DeJong J, Akik C, Saad G, Shaker S, Semaan A, Jamaluddine Z, Singh N, Blanchet K. Generating evidence in conflict situations: piecing together RMNCAH & N data for populations affected by the Syria conflict. The Partnership for Maternal Newborn and Child Health, Partner's Forum 2018, New Delhi, December 2018 (*oral presentation*).
 34. **Ghattas H**, Jamaluddine Z, Choufani J, Reese-Masterson A, Sahyoun NR. The *Healthy Kitchens, Healthy Children* intervention; a community-based intervention with multigenerational impact. The American Society of Nutrition Annual Meeting, Boston, June 2018 (*oral presentation*).
 35. Akik C, **Ghattas H**, Mesmar S, Rabkin M, El Sadr W, Fouad F. Responding to changing health needs in protracted crises: The case of the Syrian crisis. The 9th Annual CUGH Global Health Conference, New York, March 2018 (*oral presentation*).
 36. **Ghattas H**, Jamaluddine Z, Choufani J, Masterson AR, Sahyoun NR. Improvements in economic, social, and food security outcomes of Palestinian refugee women and diet diversity of Palestinian schoolchildren in Lebanon: the Healthy Kitchens, Healthy Children intervention. *The Lancet*. 2019; 393:S25. Abstract from the Lancet Palestinian Health Alliance Conference on "The Health of Palestinians Inside and Outside the Occupied Palestinian Territory", Beirut, March 2018 (*oral presentation*).
 37. Salti N, Chaaban J, **Ghattas H**, Irani A, Seyfert K, Ismail T, Khedr S. Recent changes in welfare indicators among Palestinian refugees in Lebanon: a comparative study of two cross-sectional datasets. *The Lancet*.;393:S44. Abstract from the Lancet Palestinian Health Alliance Conference on "The Health of Palestinians Inside and Outside the Occupied Palestinian Territory", Beirut, March 2018 (*oral presentation*).
 38. **Ghattas H**. Assessing and engaging deprived communities; Food security and empowerment. Presentation at CRPH conference "No one left behind; A feasible goal for the health-related

Sustainable Development Goals in the Arab region?”, Beirut, June 2017 (*oral presentation*).

39. **Ghattas H**, Jamaluddine Z, Choufani J, Btaiche R, Reese-Masterson A, Sahyoun NR. A Community-Based Intervention Improves Economic, Social and Food Security Outcomes of Refugee Women-The Healthy Kitchens Experience. The FASEB Journal. 2017;31(1 Supplement):313-6. Abstract from Experimental Biology, Chicago, April 2017 (*oral presentation*).
40. Jamaluddine Z, Choufani J, Sahyoun NR, **Ghattas H**. A Child-Administered Food Security Scale is Associated with Household Socio-Economic Status, Household Food Security and Diet Diversity. The FASEB Journal. 2017;31(1 Supplement):297. Abstract from Experimental Biology, Chicago, April 2017 (*oral presentation*).
41. Akik C, El-Mallah C, El-Jardali F, Zimmermann M, **Ghattas H**, Obeid O. Tackling Gaps in The Implementation of The Lebanon National Salt Iodization Policy. The FASEB Journal. 2017;31(1 Supplement):312-7. Abstract from Experimental Biology, Chicago, April 2017 (*oral presentation*).
42. Wambogo EA, Sahyoun N, SheikOmar O, **Ghattas H**. Validity of the Food Insecurity Experience Scale (FIES) for use in Sub-Saharan Africa (SSA). The FASEB Journal. 2017 Apr 1;31(1 Supplement):297-8. Abstract from Experimental Biology, Chicago, April 2017 (*oral presentation*).
43. Sheikomar OB, Wambogo E, Sahyoun NR, **Ghattas H**. Social Determinants of Food insecurity in the Arab Region: A Comparative Study. The FASEB Journal. 2017;31(1 Supplement):791-29. Abstract from Experimental Biology, Chicago, April 2017.
44. Asfahani F & **Ghattas H**. Food insecurity and subjective wellbeing among Arab youth: data from the Gallup World Poll 2014-2015. Abstract from the Rebuilding Health Post-Conflict Forum, American University of Beirut, December 2016.
45. DeJong J, **Ghattas H**, Bashour H, Mourtada R, Akik C, Reese-Masterson A. Reproductive, Maternal, Neonatal and Child Health in Conflict: A case study on Syria using Countdown indicators. Abstract from the Rebuilding Health Post-Conflict Forum, American University of Beirut, December 2016.
46. **Ghattas H**, Battistin F. Differentials in Food Insecurity Experience and Its Determinants in the Arab Region. Abstract from the 2016 APPAM International Conference, London, June 2016 (*oral presentation*).
47. **Ghattas H**, Chaaban J, Salti N, Irani A, Ismail T. Poverty, food insecurity and health of Palestinian refugees in Lebanon and recently displaced from Syria to Lebanon: Findings from the 2015 socio-economic household survey. Abstract from the Lancet Palestinian Health Alliance Conference on “The Health of Palestinians Inside and Outside the Occupied Palestinian Territory”, Amman, March 2016 (*oral presentation*).
48. **Ghattas H**, Acharya Y, Assi M, El Asmar K, Jones A. Child-level dual burden of malnutrition in the MENA and LAC regions: prevalence and predictors. The FASEB Journal. 2015;29:579-17. Abstract from Experimental Biology, Boston, April 2015.
49. Akik C, **Ghattas H**, Filteau S, Knai C. Reported Barriers to Appropriate Early Breastfeeding Practices in Lebanon. The FASEB Journal. 2015; 29:133-8. Abstract from Experimental Biology, Boston, April 2015.
50. **Ghattas H**, El Asmar K, Assi M, Obermeyer CM. Double burden of malnutrition in under-5 year old children across a pooled MENA sample. Presented at the 7th International conference on Health Issues in Arab Communities, Muscat, Oman, March 2015 (*oral presentation*).
51. Choufani J, **Ghattas H**, Reese-Masterson A, Sassine AJ, Sahyoun N. Food security and

- nutritional status of elementary school girls in a Palestinian camp in Lebanon. Abstract from the Lancet Palestinian Health Alliance Conference on “The Health of Palestinians Inside and Outside the Occupied Palestinian Territory”, Beirut, March 2015.
52. Sahyoun N, **Ghattas H**, Sassine AJ. Food security and health status of older Palestinian refugees living in Lebanon. Abstract from the Lancet Palestinian Health Alliance Conference on “The Health of Palestinians Inside and Outside the Occupied Palestinian Territory”, Beirut, March 2015.
 53. Hammoud R, Jabbour M, Tawil A, **Ghattas H**, Obeid O. Phosphorus supplementation improved weight gain of rats maintained on low protein diet. *Amino Acids*. 2015; 47; 8:1640-1641.
 54. **Ghattas H**, Aqeel M, Sassine AJ, Hwalla N, Sahyoun N. Exploring Lebanese children’s experiences of food insecurity. *The FASEB Journal*. 2014;28:378.2. Presented at Experimental Biology, San Diego, April 2014 (*oral presentation*).
 55. **Ghattas H**, Sahyoun N, Sassine AJ, Barbour J, Seyfert K, Hwalla N, Nord M. Household food insecurity is associated with childhood stunting in vulnerable populations in Lebanon. *The FASEB Journal*. 2014;28:1014.3. Abstract from Experimental Biology, San Diego, April 2014.
 56. **Ghattas H**, El Asmar K, Assi MJ, Obermeyer CM. Prevalence and predictors of double burden of malnutrition in under-5 year old Palestinian children: Data from the Multiple Indicator Cluster Survey Round 4. Abstract from the Lancet Palestinian Health Alliance Conference on “The Health of Palestinians Inside and Outside the Occupied Palestinian Territory”, Amman, March 2014 (*oral presentation*). *The Lancet*. 2017;390:S7.
 57. **Ghattas H**. Assessment for program planning: Improving food and health among schoolchildren in Aarsal. Presentation at the AUB-FHS conference on “Perspectives on Health Promotion: Cases from NCDIs”, Beirut, February 2014 (*invited speaker*).
 58. **Ghattas H**, Sahyoun NR, Seyfert K, Sassine AJ. Food insecurity in Palestinian and Iraqi refugees in Lebanon. *The FASEB Journal*. 2013;27:1054.3. Abstract from Experimental Biology, Boston, April 2013.
 59. Batal M, **Ghattas H**, Abou Ezze R. A school feeding program based on the Eco-Health approach: A case study from rural Lebanon. *The FASEB Journal*. 2013;27:121.1. Presented at Experimental Biology, Boston, April 2013 (*oral presentation*).
 60. Akik C, Safieddine B, **Ghattas H**, Knai C, Filteau S. The effectiveness of health services interventions to promote and support breastfeeding initiation and exclusivity. *The FASEB Journal*. 2013; 27:122.8. Presented at Experimental Biology, Boston, April, 2013.
 61. Salti N, Nuwayri-Salti N, **Ghattas H**. Disability and food insufficiency in the Palestinian refugee population in Lebanon: a household survey. *The Lancet*. 2013; 382:S31. Abstract from the Lancet Palestinian Health Alliance Conference on “The Health of Palestinians Inside and Outside the Occupied Palestinian Territory”, Cairo, March 2013.
 62. Hazim J, Shatila D, **Ghattas H**, Hlais S, Obeid O. The effect of a high fat meal containing phosphorus on postprandial lipid status of healthy subjects. *Obesity Facts*. 2013; 6:84. Abstract from the European Congress on Obesity, 2013.
 63. Batal M, Talhouk SN, Ousta D, **Ghattas H**, Obeid O, Olabi A, Kassaify Z, Chaaban J, Makhzoumi J. An eco-health approach to nutritional and environmental problems in the 21st century: a case-study from Lebanon. Presented at the 2nd American Society for Nutrition Middle East Congress (Nutrition in Health & Disease), Dubai, February 2013.

64. **Ghattas H**, Sassine AJ. Food insecurity and nutritional status of children. Presentation at the AUB-LANFS conference on “Ensuring a Healthy Start for the Pediatric Population”, Beirut, December 2012 (*invited speaker*).
65. **Ghattas H**, Seyfert K, Sahyoun NR. Food insecurity among Palestinian refugees living in Lebanon: a household survey. *The Lancet*. 2012;380:S7-S8. Abstract from the Lancet Palestinian Health Alliance Conference on “The Health of Palestinians Inside and Outside the Occupied Palestinian Territory”, Beirut, March 2012 (*oral presentation*).
66. **Ghattas H**. Food security, nutrition and health in the Arab World: The case of marginalised populations in Lebanon. Presentation at the IFRPI-UN ESCWA Conference on “Food secure Arab World, A roadmap for policy and research”, Beirut, February 2012 (*invited speaker*).
67. **Ghattas H**. Challenges in Measuring Food and Nutrition Security. Presentation at the Regional conference on "Food Security in the Middle East and North Africa: The Role of Academic and Research Institutions", Beirut, June 2011 (*invited speaker*).
68. **Ghattas H**. Iron deficiency: The size of the global problem. *Ann Nutr Metab*. 2007; 51:S31. Abstract from the European Nutrition Congress, Paris, June 2007 (*oral presentation*).
69. **Ghattas H**, Fulford AJ, Kall M, Cox SE, Mkombe M, Ali NS, Rockett K, Kwiatkowski D, Stoltzfus RJ, Prentice AM. A haptoglobin gene promoter polymorphism (A-61C) protects from anaemia in pregnant Zanzibari women. *The FASEB Journal*. 2007; 21: A1119. Abstract from Experimental Biology, Washington DC, April 2007.
70. Cox SE, Doherty C, Atkinson SH, Nweneka CV, **Ghattas H**, Fulford T, Rockett K, Kwiatkowski D, Prentice AM. Haptoglobin genotype, haemoglobin and malaria in Gambian children. *The FASEB Journal*. 2007;21: A1118-9. Abstract from Experimental Biology, Washington DC, April 2007.
71. Cox SE, Doherty C, Atkinson SH, Nweneka CV, **Ghattas H**, Fulford T, Rockett K, Kwiatkowski D, Prentice AM. A61-C haptoglobin gene promoter polymorphism and protection from malaria in Gambian children. *The FASEB Journal*. 2007;21: A164. Abstract from Experimental Biology, Washington DC, April 2007.
72. **Ghattas H**, Wallace DL, Darboe BM, Prentice AM, Macallan DC. Long term effect of perinatal nutrition on T-lymphocyte kinetics in young Gambian men. Abstract from the 18th International Congress on Nutrition, Durban, September 2005.
73. **Ghattas H**, Solon J, Wallace DL, Griffin GE, Prentice AM, Macallan DC. T-Lymphocyte subsets and kinetics in young Gambian men. *Clin Investig Med* 2004; 27S. Abstract from the 12th International Congress of Immunology, Montreal, July 2004.
74. **Ghattas H**, Irvine, A, Wallace DL, Solon, J, Morgan G, Prentice AM, MacAllan DC. The long-term effects of perinatal malnutrition on immunity: Lymphocyte subset distribution and kinetics in young Gambian men. *Ann Nutr Metab* 2003;47:461. Abstract from the 9th European Nutrition Congress, Rome, October 2003.
75. **Ghattas H**, Irvine AI, Wallace DL, Prentice AM, Macallan DC. Perinatal nutritional programming of adult immunity: studies of lymphocyte kinetics in young men in The Gambia. Abstract from “Research in Progress”, The Royal Society of Tropical Medicine and Hygiene, London, December 2002.
76. Hodgson LM, **Ghattas H**, Pritchitt H, Schwenk A, Macallan DC. Nutritional Demographics in an HIV outpatients clinic. Abstract from the 23rd ESPEN Congress, Munich, September 2001.

EXPERT WORKSHOPS & INVITED LECTURES

1. Presenter. Co-producing food system maps online using Group Model Building. Agriculture, Nutrition and Health Academy Learning Lab. July 17, 2024.
2. Invited speaker. Inequities in food security and food environments: Research innovations in crisis contexts. Department of Health Promotion, Education and Behavior Colloquium Series Lecture. April 12, 2024.
3. Invited speaker. School and community drivers of child diets in Arab cities; identifying levers for intervention (SCALE) Study. Séminaire MoISA « Systèmes Alimentaires en Méditerranée », Institut de Recherche pour le Développement, Montpellier, France. February 8, 2024.
4. Invited speaker/discussant. Recent advances in measuring nutrition and physical activity using wearable devices. Arnold School of Public Health, Physical Activity Brown Bottle Series. November 29, 2023.
5. Invited speaker. AI & Machine learning in Food Environment Research and how it can be adapted to the African context. Africa Food Environment Research Network (FERN) meeting. November 3, 2023.
6. Invited speaker. Dissemination webinar series from the School and Community Drivers of Child Diets in Arab Cities study. International Development Research Center (IDRC) Canada.
 - a. The economics of food environments and food choice. July 10, 2023
 - b. Food environments of school-aged children. July 17, 2023
7. Invited speaker. Food security, nutrition and health inequities in the context of protracted crises. USC Nutrition Research Symposium. March 23, 2023.
8. Invited speaker. The impact of agricultural interventions in Syria. Center of Excellence for Development Impact and Learning (CEDIL), UK-Aid. December 15, 2022.
9. Invited speaker. A system's approach to improving children's diets: Learning from lived experience. UNICEF Masterclass. November 2022.
10. Invited speaker. Children's lived experiences of food insecurity and food environments in the context of protracted crises. Food Environments Lived Experiences Community of Practice, City, University of London. November 2022.
11. Invited speaker. Lessons learned from applying the Child Food Insecurity Experiences Scale in school-based surveys in Lebanon. UNICEF Data Collection Webinar Series on Child Food Insecurity. June 2022.
12. Invited speaker. Adolescent health in humanitarian crises: challenges, data gaps and lessons learned from the Middle East. Gairdner Foundation Global Perspectives Panel on Navigating Transitions. May 2022.
13. Invited speaker. Frameworks for food systems approaches to food and nutrition security in populations affected by protracted humanitarian crises. Agriculture, Nutrition and Health Academy Webinar series. January 2022.
14. Invited speaker. Health inequalities in Lebanon. Institute of Community and Public Health, Birzeit University workshop on inequalities in health. December 2021.

15. Invited speaker. Responding to Women's, Newborns', Children's, and Adolescents' Health (WCH) needs in Conflict Settings in the EMR - lessons learned and course ahead. BRANCH consortium regional stakeholder event. October 2021.
16. Invited speaker. Global Obesity Forum. Insights from research on school and community drivers of children's diets in the Middle East and North Africa. September 2021.
17. Invited speaker. Boston University Initiative on Forced Displacement. COVID-19 and refugees in Lebanon. June 2021.
18. Invited speaker. Consortium of Universities for Global Health Webinar: Health in Areas Affected by Violent Conflict: Time for Academic Global Health Programs to Respond. February 2021.
19. Invited speaker. AUB Food security program webinar series. The Impact of Covid-19 on Gender and Food. June 2020.
20. Invited speaker. Boston University Initiative on Forced Displacement. Protracted forced displacement in Lebanon: How context affects food security, nutrition and health of refugees. June 2020.
21. Expert. FAO Expert consultation on the Food Insecurity Experience Scale. Rome, February 2019.
22. Expert. UN Secretary General's Independent Accountability Panel for Women's, Children's and Adolescents' Health internal retreat, New Delhi, December 2018.
23. Panelist. University of Birmingham, Workshop on Practical Humanities: Resilient Places, Beirut, November 2018.
24. Participant. League of Arab States and UNFPA Expert Group Meeting on Reviewing PAFAM Structure and Survey Tools, Cairo, July 2018.
25. Invited Speaker. Lessons learned from applying FIES in Lebanon and the region. Food Insecurity Experience Scale (FIES) Consultation meeting, FAO and Ministry of Agriculture, Beirut, Lebanon, December 2017.
26. Participant. RMNCAH&N in Conflict Settings – Country Case Studies Meeting, Dubai, November 2017.
27. Participant. Lancet-AUB Commission on Syria: Health in conflict, Third Commissioners Meeting, American University of Paris, October 2017.
28. Invited Speaker. Palestinian Refugees, Palestinian Refugees from Syria and Syrian Refugees living in Lebanon; A National Multiple Overlapping Deprivation Analysis (N-MODA). UNICEF and Ministry of Social Affairs, Beirut, Lebanon, July 2017.
29. Participant. First Consultative Meeting on Food Security Assessment and Monitoring in the Arab Region, Economic and Social Commission for Western Asia (ESCWA), Beirut, April 2017.
30. Observer. Lancet Commission on Syria: Health in Conflict. American University of Beirut, December, 2016.
31. Participant. Improving health through better governance – strengthening the governance of diet and nutrition partnerships for the prevention of chronic diseases. Rockefeller Foundation, Bellagio Center, Italy, November 2015.

32. Invited lecture. Dual burdens and food insecurity: Examples from the Arab world in transition. Columbia University, Mailman School of Public Health, June 2015.
33. Participant. Diabetes and its adaptive baseline: Establishing trends across ecological settings. UCL Diabetes Network. University College London, London, January 2015.

MEDIA COVERAGE

1. Bluvas E (2024). *Unhealthy food environments may play a role in increasing rates of childhood obesity in low- and middle-income countries*. Arnold School of Public Health News. https://www.sc.edu/study/colleges_schools/public_health/about/news/2024/urban_food_environments_ghattas.php
2. Bluvas E (2023). *Hala Ghattas tackles nutrition inequities for refugees*. Arnold School of Public Health Spotlight. https://sc.edu/study/colleges_schools/public_health/about/news/2023/faculty_intro_hpeb_ghattas.php
3. Morgan J. *Hala Ghattas (Profile)*. The Lancet Child & Adolescent Health. 2021;5(7):470.
4. IRIN news (2018). *A new normal in humanitarian aid: treating middle-class diseases*. Available at: <https://www.irinnews.org/analysis/2018/12/11/new-normal-humanitarian-aid-treating-middle-class-diseases>
5. L'Orient le Jour (2016). *Décision ministérielle imposant l'iodation du sel*. L'Orient le Jour [print & online]. Available at: <http://www.lorientlejour.com/article/1000963/decision-ministerielle-imposant-liodation-du-sel.html>
6. Food and Agriculture Organization of the United Nations, Fao.org, (2015). *Voices of the Hungry; eight licences for eight brilliant minds*. [online] Available at: <http://www.fao.org/3/a-bl331e.pdf>
7. Pompili, M. (2014). *Iraq, la disperazione dei rifugiati in Libano*. Lettera 43. [online]. Available at: http://www.lettera43.it/fatti/iraq-la-disperazione-dei-rifugiati-in-libano_43675131995.htm
8. Shaheen, K. (2014). *Lebanon's Iraqi refugees are going hungry*. The Daily Star. [print & online] p 4. Available at: <http://www.dailystar.com.lb/News/Lebanon-News/2014/May-16/256598-lebanons-iraqi-refugees-are-going-hungry.ashx>
9. American University of Beirut , Aub.edu.lb, (2012). *AUB offers training on nutrition in international emergencies*. [online] Available at: <http://www.aub.edu.lb/news/2012/Pages/nutrition-emergencies.aspx>
10. The Economist (2012). *Arab Diets: Feast and Famine*. The Economist: Middle East and Africa. [print & online]. Available at: <http://www.economist.com/node/21549018>
11. Gaiadiscovery.com. (2012). *Hala Ghattas investigates Obesity and Hunger at the same time*. [online] Available at: <http://www.gaiadiscovery.com/latest-people/hala-ghattas-investigates-obesity-and-hunger-at-the-same-tim.html>
12. Ghattas, H. (2012). *What Lebanon Wants*. Maingate, (10), p 39. [print & online] Available at: <http://viewer.zmags.com/publication/b50a933c>
13. American University of Beirut , Aub.edu.lb, (2011). *Academic and research institutions have a role in reducing food insecurity*. [online] Available at: <http://www.aub.edu.lb/news/Pages/food-insecurity-institutions.aspx>
14. Halabi, S. (2011). *A homegrown shortfall*. Executive Magazine. [print & online]. Available at: <http://www.executive-magazine.com/economics-policy/a-homegrown-shortfall>
15. American University of Beirut , Aub.edu.lb, (2010). *The first 'Nutrition in Emergencies' professional training course held at AUB*. [online] Available at: <http://www.aub.edu.lb/news/Pages/111162.aspx>

TEACHING AND ADVISING

Doctoral Students

1. Abi Zeid B. (2023-present), TBD. Arnold School of Public Health, University of South Carolina (*chair*)
2. Dunbar T. (2023-present), Exploring health-seeking behavior and service utilization of homeless Black men at risk for poor mental health in Columbia, South Carolina. Arnold School of Public Health, University of South Carolina (*chair*)
3. Samin S. (2023-present), Understanding Lived Experiences of Food Environments and Healthfulness of Diets among Adolescents in Bangladesh. Arnold School of Public Health, University of South Carolina (*committee member*)
4. Herran K. (2023-present), Food Insecurity and Social Connection of Nicaraguan Refugees and Asylum Seekers in Costa Rica: a Qualitative Study. Arnold School of Public Health, University of South Carolina (*committee member*)
5. Isanovic S. (2023-present), Development and Validation of a Food Safety Experience Scale. Arnold School of Public Health, University of South Carolina (*committee member*)
6. Kadiri N. (2022-present), Examining the Sociocultural Factors that Influence 2nd Generation Nigerians' Responses to Physical Health Challenges and their Engagement with the American Health Care System. Arnold School of Public Health, University of South Carolina (*committee member*)
7. Jamaluddine Z. (2020-present), A protracted refugee birth cohort: exploring effects of conflict on small-size birth, and of small-size at birth on subsequent child wellbeing outcomes. London School of Hygiene and Tropical Medicine, UK (*co-advisor*)
8. Saad G. (2019-2023), Female headed household typologies and their role in child health. Department of Epidemiology and Population Health, American University of Beirut, (*chair*)
9. Akl C. (2018-2023), The role of school food environments in determining children's food choices. Department of Epidemiology and Population Health, American University of Beirut, (*chair*)
10. Shiekh O. (2014-2021), Food insecurity among vulnerable populations in Arab countries. Department of Nutrition and Food Science, University of Maryland, College Park, MD, USA (*committee member*)
11. Talhouk R. (2016-2020), Using technology in building refugee community resilience. Open Lab, Newcastle University, UK (*co-advisor*)
12. Wambogo E. (2015-2018), Food insecurity among older adults in Sub-Saharan Africa: A multisectoral approach, Department of Nutrition and Food Science, University of Maryland, College Park, MD, USA (*committee member*)
13. Shaker L. (2013-2018), Protecting the vulnerable in times of vulnerability – Infant and young child feeding in emergencies. School of Nursing and Health Sciences, University of Dundee, UK (*co-advisor*)
14. Akik C. (2011-2014), Breastfeeding in Lebanon: Barriers and policy dynamics. Department of Population Health, London School of Hygiene and Tropical Medicine, UK (*co-advisor*)

Department of Health Promotion, Education, and Behavior, Arnold School of Public Health, University of South Carolina

Courses taught

- HPEB 792 Health of Populations Affected by Humanitarian Crises (*graduate*), Fall 2023
HPEB 818 Advanced Evaluation of Health Promotion Programs (*doctoral*), Spring 2023

Guest lecturer

- HPEB 715 Qualitative Research Methods in Public Health (*graduate*), Fall 2022
HPEB 772 Responding to Global Health Challenges (*graduate*), Spring 2023
HPEB 620 Nutrition Through the Life Cycle, Spring 2023
HPEB 704 Health Education Research Seminar (*doctoral*), Spring 2023

Master's Practicum Supervisor

1. Looney E. (2024), Beyond the Plate: Understanding and Reducing Consumer-Generated Food Waste at USC Dining Facilities.

Department of Epidemiology and Population Health, Faculty of Health Sciences, American University of Beirut

Courses taught

NFSC 300A Graduate tutorial in Nutritional Epidemiology, 2021 - 2022
EPHD 445 Writing Research Grants (*doctoral*), 2021 - 2022
EPHD 440 Doctoral Seminar in Epidemiology, 2020 - 2022
PBHL 310 Research Design (*quantitative practical lead*), 2017 - 2022
PBHL 220/320CC Design of Engineering Solutions for Health Challenges in Crises, 2021
EPHD 340 Departmental Seminar: *Neighbourhoods, Place and Health*, 2018
EPHD 365 Practicum in Epidemiology and Biostatistics (*graduate practicum advisor*), 2015-2022
IDTH 232 Research design and Development (*mentor to medical students*), 2014-2022
IDTH 268 Special Projects in Medicine (*mentor to 4th year medical students*), 2016-2022

Guest lecturer

PBHL 302 Methods in Humanitarian Settings (*graduate*), 2021
IPEC 300 Interprofessional Education (*graduate*), 2021
EPHD 317 Epidemiology of Non-Communicable Diseases and Mental Health Disorders (*graduate*), 2020- 2022
PBHL 302 Implementation Research for Public Health (*graduate*), Fall 2016
EPHD 323 Epidemiology of Communicable and Non-Communicable Diseases (*graduate*), Spring 2016, Spring 2021
HPCH 332 Community Health and Development (*graduate*), Spring 2015
EPHD 340 Epidemiology Departmental Seminar (*graduate*), Spring 2014

MSc Epidemiology thesis advisor

2. Ali F. (2023), Food Insecurity and Mental Illness in a Conflict-Affected Population: A Cross-Sectional Study of Adults in Gaza.
3. Lopes K. (2019), Impact evaluation of multi-purpose cash assistance on health care services utilization among Syrian refugees in Lebanon: the role of proximity to health care
4. Hoteit R. (2018), Does A Subsidized School Meal Program Reduce Absenteeism and Improve Academic Performance of Palestinian Refugee School Children?
5. Battistin F. (2016), Does unconditional, unrestricted cash assistance improve Syrian refugee's physical and material wellbeing?
6. Assi M. (2015), The double burden of malnutrition in under-5 year old children in Arab countries: An analysis of prevalence and predictors.

Department of Nutrition and Food Sciences, Faculty of Agricultural and Food Sciences, American University of Beirut

Community nutrition practicum coordinator (2009-2013)

Courses taught

NFSC 222 (3cr.) Community Nutrition (*undergraduate*), Fall 2009 - Fall 2012
NFSC 283 (3cr.) Nutrition education and communication (*undergraduate*), Fall 2009 – Fall 2012
NFSC 296 (1cr.) Current topics in Food Sciences and Nutrition (*undergraduate seminar advisor*), 2009-2013
NFSC 299 (2cr.) Projects in Nutrition and Food Sciences (*undergraduate project advisor*), 2009-2013
NFSC 306 (3cr.) Community Nutrition: Research and Intervention (*graduate*), Spring 2010, Spring 2012
NFSC 395 (1cr.) Graduate Seminar in Nutrition and Food Science, Spring 2012

MSc Nutrition thesis advisor

1. Aqeel M. (2014) Children's Experiences of Food Insecurity in Lebanon – A Qualitative Study.
2. El Hayek J. (2013) Development of low-cost sample diets for adults living in rural areas of Lebanon using Linear Programming models.

3. Khalil L. (2012) The effect of body mass index and adiposity on iron status in Lebanese children and adolescents.
4. Safieddine B. (2012) Breastfeeding support given by health care providers and society: a qualitative study investigating perspectives of women living in the Southern Suburbs of Beirut.
5. Khudari H. (2011) Nutritional Status Assessment of school children in Aarsal.

Department of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine

Module co-organiser:

Module 2440 Maternal and Child Nutrition (2005-2008)

Distance learning tutor:

EP 201 Study design: writing a grant application (2007)

MSc project advisor:

1. Bailey J. (2008) The potential of ready to use foods in complementary feeding.
2. Dodhia S. (2006) The prevention of iron deficiency anaemia in malaria endemic regions by iron supplementation: Are international guidelines based on evidence?
3. Akik C. (2006) An evaluation of complementary feeding patterns in Lebanon: A cross-sectional study
4. Kagiya D. (2005) The role of dairy consumption in adult obesity: a systematic review.

MSc project co-advisor:

1. Asfahani F. (2016) Food insecurity and wellbeing among youth in the Arab world: secondary data analysis.
2. Shahid H. (2015) Socioeconomic Determinants of Chronic Disease Amongst Palestinian Refugees in Lebanon

PROFESSIONAL DEVELOPMENT

June 2021	Survey Research Center Summer Institute, University of Michigan, course attended: <i>Responsive Survey Design</i>
June 2016	Epidemiology and Population Health Summer Institute, Mailman School of Public Health, Columbia University, courses attended: <i>Digital Acquisition of Big Data</i> <i>Growth Curve Modelling</i>
June 2015	Epidemiology and Population Health Summer Institute, Mailman School of Public Health, Columbia University, courses attended: <i>Spatial Analysis in Epidemiology</i> <i>Assessing Neighborhoods in Epidemiology</i>
2006-2007	Certificate in Learning and Teaching (Module 1), London School of Hygiene and Tropical Medicine, workshops attended: <i>Small Group Teaching</i> <i>Planning Learning Activities: teaching sessions</i> <i>Assessments: Marking and Giving Feedback</i> <i>Presenting a Lecture: Large group teaching</i> <i>Personal Tutoring</i> <i>Peer Observation: Reflective Practice and Self-evaluation</i>

SERVICE

University of South Carolina

- 2024 – present Member, HPEB Chair Search Committee, Department of Health Promotion, Education and Behavior
- 2024 – present Member, Doctoral Committee, Department of Health Promotion, Education and Behavior
- 2022 – present Member, Steering Committee, University of South Carolina Nutrition Consortium
- 2023 – 2024 Member, Student Engagement Committee, Department of Health Promotion, Education and Behavior
- 2022 – 2024 Member, Scholarship and Awards Committee, Department of Health Promotion, Education and Behavior

American University of Beirut

- 2021 – 2022 Co-facilitator, AUB VITAL Cluster of Research Excellence on Intelligence and Insights
- 2021 – 2022 Member, AUB Artificial Intelligence, Computational and Data Sciences Task Force
- 2020 – 2022 Faculty of Health Sciences Coordinator, MSc Public Health Nutrition Programme Committee
- 2019 – 2022 Faculty of Health Sciences (FHS) representative, Social and Behavioural Sciences Institutional Research Board (IRB)
- 2018 – 2022 Member, FHS Research Committee
- 2018 – 2022 FHS representative, AUB AREC Taskforce
- 2018 – 2022 Member, Food Security Program Committee
- 2017 – 2022 Co-founder & co-organizer, Humanitarian Engineering Initiative and Summer/Winter school
- 2017 – 2022 Member, AUB Leadership, Equity, and Diversity Initiative (LEAD) Civic Engagement Committee
- 2014 – 2022 Co-organiser, Faculty of Health Sciences Annual Faculty Research Day
- 2013 – 2022 Member, Faculty of Health Sciences Task Force on Emergencies and Health & sub-Task force on conflict in the curriculum
- 2019 Member, FHS Integrative Learning Experience (ILE) Curriculum Committee
- 2019 Member, FHS self-study Committee on Research, Teaching, Practice and Community Engagement (TReP Committee), in preparation for re-accreditation by the Council on Education in Public Health (CEPH)
- 2015 – 2019 Member, AUB Syrian Refugee Crisis Committee (AUB4Refugees)
- 2014 – 2019 Co-organiser, Center for Research on Population and Health Research Incubation Seminars
- 2014 – 2019 Member, Curriculum committee for the Global Master's in Health and Sustainable Development
- 2011 – 2019 Reviewer, Social and Behavioural Sciences Institutional Research Board
- 2016 Member, Selection Committee for the Coordinator of the Global Master's program
- 2014 Member, Faculty of Health Sciences, Scientific Committee for the 60th Anniversary Conference
- 2012-2013 Chair, Faculty of Agricultural and Food Sciences (FAFS)-FHS committee for the development of a new Master's degree in Public Health Nutrition
- 2012 Member, Program Review Committee, Department of Nutrition and Food Sciences
- 2011-2013 Member, Faculty of Agricultural and Food Sciences (FAFS) Library Committee
- 2009-2013 Member, Faculty of Agricultural and Food Sciences Graduate Studies Committee
- 2010-2013 Member, AUB Nature Conservation Center (NCC)
- 2009-2013 Organizer, Annual AUB Wellness Committee Fit-a-thon

2010-2011	FAFS representative, PhD Task Force Committee for the Biomedical Sciences Doctoral program
2010-2011	Faculty Advisor to the joint FAFS/IFI Program on Food Security and Policy in the Middle East
2010	FAFS representative on the Social and Behavioural Sciences Institutional Research Board
2009-2011	Member, Faculty of Agricultural and Food Sciences Research Committee

Professional Service

2023 -	Mentor, RWJF Health Policy Research Scholars, Johns Hopkins Bloomberg School of Public Health
2022 -	Member of the Advisory Board of the Center for Research on Population and Health, American University of Beirut
2022 -	Member, Strategy Group, Next Gen(d)eration Leadership for a Well-Nourished World.
2022 -	Member, Lancet Palestinian Health Alliance Coordinating Committee.
2021 -	Member, International Advisory Board of the Centre de Recherche en Santé Publique, Université de Montreal.
2018 -	Member, Lancet Palestinian Health Alliance Steering Group.
2024	External evaluator, Tenure & Promotion, Department of Human Sciences, Sam Houston State University
2022, 2024-25	Member and Peer-Reviewer, Agriculture, Nutrition and Health (ANH) Academy Week Scientific Committee
2005 –	Ad-hoc peer reviewer for Journal of Adolescent Health, PLoS Medicine, Journal of Nutrition, Public Health Nutrition, American Journal of Human Biology, Tropical Medicine and International Health, and Public Health.
2019 - 2023	Member, Arab Council for Social Sciences Dataverse Advisory Committee.
2015 – 2022	Advisor to the United Nations Relief and Works Agency for Palestine refugees (UNRWA) Canteen Task force aiming to improve food environments of UNRWA schools.
2019 - 2021	Member, Household Water Insecurity (HWISE)-Research Coordination Network Steering Committee
2017 - 2018	Member, Research and Documentation team of the AUB-Lancet Commission on Syria.
11/2017	Moderator, Lebanese Epidemiological Association 22 nd Annual Conference “Eating Healthy and Staying Healthy”, Beirut.
06/2017	Co-organiser of an international conference: “No one left behind; A feasible goal for the health-related Sustainable Development Goals in the Arab region?”, Beirut, June 2017.
12/2016	Member of the Scientific Committee a regional conference on Adolescent and

youth wellbeing in the Arab region: Challenges and promises of the second decade of life, American University of Beirut. Co-organiser of the post-conference workshop on Engaging Youth through Digital Solutions.

- 04/2015 Co-organised a regional workshop on the Use of Digital Solutions in Public Health, Faculty of Health Sciences, American University of Beirut, & co-founded the Arab Digital Public Health Initiative.
- 03/2015 Co-organised a regional workshop Social Determinants of Unhealthy Weight at the International Conference on Health Issues in Arab Communities, Oman.
- 2004-2014 Managing Editor of Emerging Themes in Epidemiology, a BioMed Central, online, open access journal. <http://www.ete-online.com/>
- 10/2014 Co-organised a regional workshop on The health and wellbeing of Arab youth: A regional research workshop examining health risks and resilience of young people in the Arab world, Faculty of Health Sciences, American University of Beirut.
- 2010-2013 Organiser of a yearly two-week Regional Training course on Nutrition in Emergencies, American University of Beirut.
<http://www.nietraining.net/p/project-background.html>
- 11/2012 Advised on the text of a Joint Statement on Optimal Infant and Young Child Feeding in Emergencies in Lebanon, and obtained AUB endorsement for the statement
- 07/2011 Member of the organizing committee for the Regional conference on "Food Security in the Middle East and North Africa: The Role of Academic and Research Institutions".
- 03/2010 Co-organised a consultation workshop on Rural Poverty in the Middle East for IFAD's Rural Poverty Report, Beirut.
- 04/2007 Co-organised a workshop entitled "Defining the research priorities for the prevention of anaemia in malaria-endemic countries" for young investigators at the Micronutrient Forum, Istanbul.
- 2006 Co-edited for the Journal of Nutrition the proceedings of the International Nutrition Council symposium on 'Micronutrient Regulation of Host-Pathogen Interactions' held at the annual meeting of Experimental Biology.

CONSULTANCIES

- January – July 2020 **UNICEF, MENA Regional Office, Jordan**
Trends in complementary feeding indicators and their determinants – a sub-regional analysis
Technical expert
- February – March 2019 **Food and Agriculture Organisation (FAO) Regional Office, Cairo**
Report on Re-shaping food systems to deliver improved diets and nutrition in the Near East and North Africa
Developed a conceptual framework and led the desk review and report writing
- March – December 2016 **UNICEF, Jordan**
Evaluation of the Infant and Young Child Feeding (IYCF) Program in Camp and Host Communities in Jordan
Nutrition expert and advisor on evaluation methodology

- March – April 2016 **UN Economic and Social Commission for Western Asia (UN ESCWA) and World Food Programme (WFP), Lebanon**
Advisor for the Strategic Review of Food and Nutrition Security in Lebanon
- February 2016–
May 2018 **Theirworld, UK**
Nutritional status assessment of schoolchildren for a pilot school feeding intervention in two Lebanese public schools.
Designed a study to assess baseline characteristics of children attending two public schools, trained a field team in the implementation of the study and supervised data analysis and interpretation.
- December 2015 –
January 2016 **Office of the United Nations High Commissioner for Refugees, Lebanon**
Refugee household profiling.
Led data analysis on data from the Vulnerability Assessment of Syrian Refugees (VASyr) survey, and wrote two fact sheets (Food Security, and Health) summarising cross sector associations.
- September –
December 2015 **World Food Programme (WFP), Lebanon**
Analysis and Refinement of Targeting Mechanisms for Food Assistance to Syrian Refugees in Lebanon.
Part of a team that reviewed the targeting mechanisms for electronic food vouchers distribution to Syrian refugees, and refined the targeting formula using empirical analyses of registration and survey data.
- June 2015 & June
2016 **Nutrition in Emergencies Regional Training Initiative**
Trainer and organizer of the Emergency Simulation as part of the Nutrition in Emergencies short course.
- August 2013 –
August 2015 **International Orthodox Christian Charities (IOCC), Lebanon**
Training on the Management of Acute Malnutrition for Lebanese healthcare workers (CMAM and Inpatient management of complicated SAM).
Part of a team that worked on designing and delivering a series of workshops in Arabic on the management of malnutrition in the context of the Syrian refugee crisis in Lebanon.
- February – April
2014 **Food and Agricultural Organisation (FAO), Rome**
Finalization of the Food Insecurity Experience Scale version in Arabic, Voices of the Hungry project.
Used qualitative data from my research to inform the Arabic language adaptation of the FIES, and recommended wording for the final Arabic FIES questions.
- December 2012 **International Medical Corps (IMC), Lebanon**
Nutrition in Emergencies training for health and nutrition care providers for Syrian refugees in Jordan.
- May – June 2012 **International Orthodox Christian Charities (IOCC), Lebanon**
Contributed to two Nutrition in Emergencies training courses for primary health care workers in response to the Syrian IDP and refugee situation.
- 2000 – 2001 **Action Against Hunger, UK**
Translation of training materials for Nutrition in Emergencies from French to English.

PROFESSIONAL AFFILIATIONS

Member of the American Society for Nutrition, Agriculture Nutrition and Health (ANH) Academy

SOFTWARE

Proficient in Stata, NVivo, Nutritionist IV, SurveyCTO/Kobotoolbox.

LANGUAGES

Fluent in English, French and colloquial Levantine Arabic.