

Curriculum Vitae

LEILA LARSON

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EDUCATION

2013 – 2017 **Ph.D. Nutrition and Health Sciences**
Emory University, Atlanta, USA
Dissertation: The consequences of malnutrition and effects of multiple micronutrient powders on young child development in India
Supervisor: Dr. Reynaldo Martorell

2011-2013 **M.P.H. Environmental Health Sciences (Global Track)**
Columbia University, New York, USA
Thesis: Management and Treatment of Childhood Diarrhea in Ethiopia: Factors Associated with Caregivers' Health Care Behaviours
Supervisor: Dr. Joseph Graziano

2005-2010 **B.A.Sc. Geological Engineering (Environmental focus) (with Honours)**
University of British Columbia, Vancouver, Canada
Thesis: An Assessment of the Greywater and Composting Toilet Tea Leach Field Geochemistry at the C.K. Choi Building, University of British Columbia Vancouver Campus
Supervisor: Dr. Roger Beckie

EMPLOYMENT

Aug 2020 – current Assistant Professor, Department of Health Promotion, Education, and Behavior, Arnold School of Public Health
University of South Carolina, United States

Jan 2018 – July 2020 Research Fellow, International and Immigrant Health Group in the Department of Medicine – Royal Melbourne Hospital, Melbourne Medical School in the Faculty of Medicine, Dentistry and Health Science
University of Melbourne, Australia

Dec 2017 – Jan 2018 Consultant, Double Fortified Salt Study, India
Global Alliance for Improved Nutrition, Canada

Dec 2015 – Mar 2017 Monitoring and Evaluation Associate, Double Fortified Salt Study, India
Global Alliance for Improved Nutrition, India

Jul 2015 – Nov 2015 Monitoring and Evaluation Associate, Home Fortification Program Phase 2, Bangladesh
Global Alliance for Improved Nutrition, Canada

Aug 2014 – Dec 2014 Teaching Assistant, Global Elimination of Micronutrient Malnutrition Course, Rollins School of Public Health
Emory University, USA

May 2012 – Dec 2012 Intern, Zinc and low osmolarity-Oral Rehydration Salt for the treatment of childhood

	diarrhea, Addis Ababa, Ethiopia Micronutrient Initiative (now Nutrition International)
Jan 2012 – Apr 2012	Teaching Assistant, Environmental Health Sciences Core Class, Mailman School of Public Health Columbia University, USA
Apr 2010 – Apr 2011	Junior Mine Water Specialist, Mine Water Management Group Golder Associates, Canada
Apr 2008 – Sep 2008	Summer Employee, Mine Rock Group Golder Associates, Canada
May 2007 – Dec 2007	Intern, Northern and Central Regions Water Supply and Sanitation Sector Project Lao Consulting Group, Laos

PEER REVIEWED PUBLICATIONS (numbered in reverse chronological order)

† Indicates that the first author is a student for whom I am the primary mentor or primary co-mentor.

41. **Larson LM**, Frongillo EA, Akter F, Wooten S, Brander R, Ruel M, Leroy JL. Growth monitoring and promotion as an opportunity to improve early childhood development. *Advances in Nutrition*. [Submitted, under review]
40. **Larson LM**, Baldi A, Hasan MI, Jones N, Pickle EO, Ataide R, Bennett C, Bhuiyan MSA, Tipu SMMU, Tofail F, Biggs BA, Hamadani J, Pasricha SR, Braat S. Role of hepcidin on benefits and risks of supplementation with iron syrup and multiple micronutrient powders in Bangladeshi children. *American Journal of Clinical Nutrition*. [Submitted, under review].
39. Prado EL, **Larson LM**, Arnold CD, Wessells KR, Shankar AH, et al. Hemoglobin concentration thresholds that discriminate functional outcomes among children age 6-30 months in 8 countries: An individual participant data meta-analysis. *BMJ Global Health*. [Submitted, under review]
38. Leroy JL, Brander RL, Frongillo EA, **Larson LM**, Ruel MT, Avula R. Revisiting the epidemiological potential of growth monitoring and promotion. *Advances in Nutrition*. Accepted.
37. †Isanovic S., Sanoe, M., Wooten S., Frongillo E.A., Yousafzai A.K., Blake C.E., Kanyangarara M., Swan M., Rodger N., Murray M., **Larson L.M.** Integrated child nutrition, parenting, and health intervention in rural Liberia: A mixed methods feasibility study. *PLOS ONE* 19(12): e0311486. 2024. <https://doi.org/10.1371/journal.pone.0311486>.
36. Pellegrino J, Mundagow PT, Agbinko-Djobalar B, Owusu PG, Sakyi KS, **Larson LM**, Kanyangarara M. Prevalence and risk factors for postpartum depression and stress among mothers of preterm and low birthweight infants admitted to a Neonatal Intensive Care Unit in Accra, Ghana. *International Journal of Gynecology & Obstetrics*. 2024. <https://doi.org/10.1002/ijgo.15998>
35. Baldi A, Braat S, Hasan MI, Bennett C, Barrios M, Jones N, Azeez IA, Wilcox S, Roy P, Alam MS, Ataide R, Clucas D, **Larson LM**, Hamadani J, Zimmermann M, Bowden R, Jex A, Biggs BA, Pasricha SR. Safety of iron supplements and iron-containing multiple micronutrient powders on the gut microbiome in Bangladeshi infants recruited to a randomised controlled trial. *Nature Communications*, Volume 15, 8640 (2024). <https://doi.org/10.1038/s41467-024-53013-x>
34. Karakochuk C.D., Dary O., Flores Urrutia M., Garcia Casal M.N., Hayashi C., Jefferds M.E.D., Johnston R., **Larson L.M.**, Mpango C., Moorthy D., Namaste S., Cordero D.I.M., Rogers L., Saha K., Wuehler S. Emerging evidence and critical issues with the use of single-drop capillary blood for the measurement of hemoglobin concentration in

population-level anemia surveys. *Advances in Nutrition*, Volume 15, Issue 10, 100290. 2024.
doi.org/10.1016/j.advnut.2024.100290.

33. **Larson LM**, Thomas T, Kurpad A, Hoddinott J, Martorell R, Adebisi V, Swaminathan S, Neufeld LM. Etiology of anemia in women and children in Uttar Pradesh, India. *Public Health Nutrition*. 2024;27(1):e30.
doi:10.1017/S1368980024000028
32. Mwangi MN, Mzembe G, Ngwira CC, Kapulula MD, Vokhiwa M, Braat S, Harding R, **Larson LM**, Ataíde R, Phiri KS, Pasricha SR. Protocol for a randomised, multicentre, four-arm, double-blinded, placebo-controlled trial to assess the benefits and safety of Iron supplementation with Malaria chemoprevention to children in Malawi - IRMA trial. *BMJ Open*. 2023; 13.10: e069011. doi: 10.1136/bmjopen-2022-069011
31. Pasricha SR, Mwangi M, Moya E, Ataíde R, Mzembe G, Harding R, Zinenani T, **Larson LM**, Nkhono W, Chinkhumba J, Simpson J, Clucas D, Stones W, Braat S, Phiri K. Ferric carboxymaltose versus standard-of-care oral iron to treat second-trimester anaemia in Malawian pregnant women: a randomised controlled trial. *The Lancet*. 2023; 401(10388):1595-609. [https://doi.org/10.1016/S0140-6736\(23\)00278-7](https://doi.org/10.1016/S0140-6736(23)00278-7).
30. Moya E, Mzembe G, Mwambinga M, Truwah Z, Harding R, Ataíde R, **Larson LM**, Fisher J, Braat S, Pasricha SR, Mwangi MN, Phiri KS. Prevalence of early postpartum depression and associated risk factors among selected women in southern Malawi: a nested observational study. *BMC Pregnancy and Childbirth*. 2023; 23:229.
<https://doi.org/10.1186/s12884-023-05501-z>
29. **Larson LM**, Feuerriegel D, Hasan MI, Braat S, Jin J, Tipu SMMU, Shiraji S, Tofail F, Biggs BA, Hamadani J, Johnson K, Pasricha SR, Bode S. Effects of supplementation with iron syrup or multiple micronutrient powders on resting brain activity in Bangladeshi children. *Journal of Nutrition*. 2023. 153(1):352-63
<https://doi.org/10.1016/j.tjnut.2022.12.026>
28. **Larson LM**, Feuerriegel D, Hasan MI, Braat S, Jin J, Tipu SMMU, Shiraji S, Tofail F, Biggs BA, Hamadani J, Johnson K, Bode S, Pasricha SR. Effects of iron supplementation on neural indices of habituation in Bangladeshi children. *American Journal of Clinical Nutrition*. 2023;117(1):73-82. doi:
<https://doi.org/10.1016/j.ajcnut.2022.11.023>
27. **Larson LM**, Frongillo EA, Kase BE, Neufeld LM, Gonzalez W, Erhabor I, Djimeu EW. Effectiveness of the Eggs Make Kids demand-creation campaign at improving household availability of eggs and egg consumption by young children in Nigeria: a quasi-experimental study. *Maternal and Child Nutrition*. 2022. Vol 9, Issue 1. e13447. <https://doi.org/10.1111/mcn.13447>
26. Moya E, **Larson LM**, Stewart RC, Fisher J, Mwangi MN, Phiri KS. Reliability and validity of depression anxiety stress scale (DASS)-21 in screening for common mental disorders among postpartum women in Malawi. *BMC Psychiatry*. 2022 May 24;22(1):352. doi: 10.1186/s12888-022-03994-0. PMID: 35606733; PMCID: PMC9128196.
25. Mwangi MN, Mzembe G, Moya E, Braat S, Harding R, Robberstad B, Simpson J, Stones W, Rogerson S, Biselele K, Chinkhumba J, **Larson LM**, Ataíde R, Phiri KS, Pasricha SR. Protocol for a multicentre, parallel-group, open-label randomised controlled trial comparing ferric carboxymaltose with the standard of care in anaemic Malawian pregnant women: the REVAMP trial. *BMJ Open*. 2021 Nov 23;11(11):e053288. doi: 10.1136/bmjopen-2021-053288. PubMed PMID: 34815287; PubMed Central PMCID: PMC8611444
24. Pasricha SR, Hasan MI, Braat S, **Larson LM**, Tipu SMM, Hossain SJ, Shiraji S, Baldi A, Bhuiyan MSA, Tofail F, Fisher J, Grantham-McGregor S, Simpson JA, Hamadani JD, Biggs BA. Benefits and Risks of Iron Interventions in Infants in Rural Bangladesh. *N Engl J Med*. 2021 Sep 9;385(11):982-995. doi: 10.1056/NEJMoa2034187. PubMed PMID: 34496174

23. **Larson LM**, Braat S, Hasan MI, Mwangi MN, Estepa F, Hossain SJ, Clucas D, Biggs BA, Phiri KS, Hamadani JD, Pasricha SR. Preanalytic and analytic factors affecting the measurement of haemoglobin concentration: impact on global estimates of anaemia prevalence. *BMJ Glob Health*. 2021 Jul;6(7). doi: 10.1136/bmjgh-2021-005756. PubMed PMID: 34330759; PubMed Central PMCID: PMC8327809
22. Young MF, Mehta RV, Gosdin L, Kekre P, Verma P, **Larson LM**, Girard AW, Ramakrishnan U, Chaudhuri I, Srikantiah S, Martorell R. Home Fortification of Complementary Foods Reduces Anemia and Diarrhea among Children Aged 6-18 Months in Bihar, India: A Large-Scale Effectiveness Trial. *J Nutr*. 2021 Jul 1;151(7):1983-1992. doi: 10.1093/jn/nxab065. PubMed PMID: 33880566; PubMed Central PMCID: PMC8245869.
21. **Larson LM**, Cyriac S, Djimeu EW, Mbuya MNN, Neufeld LM. Can Double Fortification of Salt with Iron and Iodine Reduce Anemia, Iron Deficiency Anemia, Iron Deficiency, Iodine Deficiency, and Functional Outcomes? Evidence of Efficacy, Effectiveness, and Safety. *J Nutr*. 2021 Feb 15;151(Suppl 1):15S-28S. doi: 10.1093/jn/nxaa192. PubMed PMID: 33582785; PubMed Central PMCID: PMC7882357
20. Rappaport AI, Karakochuk CD, Hess SY, Whitehead RD Jr, Namaste SML, Dary O, Parker ME, Neufeld LM, **Larson LM**, Newton S, Wegmuller R, Moorthy D. Variability in haemoglobin concentration by measurement tool and blood source: an analysis from seven countries. *J Clin Pathol*. 2021 Oct;74(10):657-663. doi: 10.1136/jclinpath-2020-206717. Epub 2020 Oct 6. PubMed PMID: 33023940
19. Braat S, **Larson L**, Simpson JA, Hasan MI, Hamadani JD, Hossain SJ, Shiraji S, Bhuiyan MSA, Biggs BA, Pasricha S. The Benefits and Risks of Iron interventionS in Children (BRISC) trial: Statistical analysis plan. *F1000Research* 2020, 9:427. doi.org/10.12688/f1000research.23383.1
18. **Larson LM**, Biggs BA. Importance of Follow-up Studies to Examine Sustained Effects of Early Nutrition Interventions. *Pediatrics*. 2020 Mar;145(3). doi: 10.1542/peds.2019-3827. Epub 2020 Feb 4. PubMed PMID: 32019813.
17. Neufeld LM, Beal T, **Larson LM**, Cattaneo FD. Global Landscape of Malnutrition in Infants and Young Children. *Nestle Nutr Inst Workshop Ser*. 2020;93:1-14. doi: 10.1159/000503315. Epub 2020 Jan 28. Review. PubMed PMID: 31991423.
16. Baldi AJ, **Larson LM**, Pasricha SR. Balancing Safety and Potential for Impact in Universal Iron Interventions. *Nestle Nutr Inst Workshop Ser*. 2020;93:51-62. doi: 10.1159/000503356. Epub 2020 Jan 28. Review. PubMed PMID: 31991433
15. Prado E*L, **Larson LM*** (joint first authorship), Cox K, Bettencourt K, Kubes JN, Shankar AH. Do effects of early life interventions on linear growth correspond to effects on neurobehavioural development? A systematic review and meta-analysis. *Lancet Glob Health*. 2019 Oct;7(10):e1398-e1413. doi: 10.1016/S2214-109X(19)30361-4. PubMed PMID: 31537370.
14. Park CS, Vogel E, **Larson LM**, Myers SS, Daniel M, Biggs BA. The global effect of extreme weather events on nutrient supply: a superposed epoch analysis. *Lancet Planet Health*. 2019 Oct;3(10):e429-e438. doi: 10.1016/S2542-5196(19)30193-7. PubMed PMID: 31625515.
13. **Larson LM**, Kubes JN, Ramírez-Luzuriaga MJ, Khishen S, H Shankar A, Prado EL. Effects of increased hemoglobin on child growth, development, and disease: a systematic review and meta-analysis. *Ann N Y Acad Sci*. 2019 Aug;1450(1):83-104. doi: 10.1111/nyas.14105. Epub 2019 Jun 3. PubMed PMID: 31157417.
12. Neufeld LM, **Larson LM**, Kurpad A, Mburu S, Martorell R, Brown KH. Hemoglobin concentration and anemia diagnosis in venous and capillary blood: biological basis and policy implications. *Ann N Y Acad Sci*. 2019 Aug;1450(1):172-189. doi: 10.1111/nyas.14139. Epub 2019 Jun 23. Review. PubMed PMID: 31231815; PubMed Central PMCID: PMC7496102.

11. Prado EL, Shankar AH, Stein AD, **Larson LM**. Does Improved Growth Mean Improved Neurobehavioral Development?. *Adv Nutr*. 2019 Jul 1;10(4):725-726. doi: 10.1093/advances/nmy126. PubMed PMID: 31041450; PubMed Central PMCID: PMC6628846.
10. **Larson LM**, Martorell R, Bauer PJ. A Path Analysis of Nutrition, Stimulation, and Child Development Among Young Children in Bihar, India. *Child Dev*. 2018 Sep;89(5):1871-1886. doi: 10.1111/cdev.13057. Epub 2018 Mar 12. PubMed PMID: 29529358; PubMed Central PMCID: PMC6174960
9. **Larson LM**, Guo J, Williams AM, Young MF, Ismaily S, Addo OY, Thurnham D, Tanumihardjo SA, Suchdev PS, Northrop-Clewes CA. Approaches to Assess Vitamin A Status in Settings of Inflammation: Biomarkers Reflecting Inflammation and Nutritional Determinants of Anemia (BRINDA) Project. *Nutrients*. 2018 Aug 16;10(8). doi: 10.3390/nu10081100. PubMed PMID: 30115830; PubMed Central PMCID: PMC6115742.
8. **Larson LM**, Young MF, Bauer PJ, Mehta R, Girard AW, Ramakrishnan U, Verma P, Chaudhuri I, Srikantiah S, Martorell R. Effectiveness of a home fortification programme with multiple micronutrients on infant and young child development: a cluster-randomised trial in rural Bihar, India. *Br J Nutr*. 2018 Jul;120(2):176-187. doi: 10.1017/S000711451800140X. PubMed PMID: 29947323; PubMed Central PMCID: PMC6088539.
7. Ramírez-Luzuriaga MJ, **Larson LM**, Mannar V, Martorell R. Impact of Double-Fortified Salt with Iron and Iodine on Hemoglobin, Anemia, and Iron Deficiency Anemia: A Systematic Review and Meta-Analysis. *Adv Nutr*. 2018 May 1;9(3):207-218. doi: 10.1093/advances/nmy008. PubMed PMID: 29767699; PubMed Central PMCID: PMC5952925
6. **Larson LM**, Phiri KS, Pasricha SR. Iron and Cognitive Development: What Is the Evidence?. *Ann Nutr Metab*. 2017;71 Suppl 3:25-38. doi: 10.1159/000480742. Epub 2017 Dec 22. PubMed PMID: 29268256
5. **Larson LM**, Young MF, Ramakrishnan U, Webb Girard A, Verma P, Chaudhuri I, Srikantiah S, Martorell R. A Cross-Sectional Survey in Rural Bihar, India, Indicates That Nutritional Status, Diet, and Stimulation Are Associated with Motor and Mental Development in Young Children. *J Nutr*. 2017 Aug;147(8):1578-1585. doi: 10.3945/jn.117.251231. Epub 2017 Jun 14. PubMed PMID: 28615374; PubMed Central PMCID: PMC5525111
4. **Larson LM**, Namaste SM, Williams AM, Engle-Stone R, Addo OY, Suchdev PS, Wirth JP, Temple V, Serdula M, Northrop-Clewes CA. Adjusting retinol-binding protein concentrations for inflammation: Biomarkers Reflecting Inflammation and Nutritional Determinants of Anemia (BRINDA) project. *Am J Clin Nutr*. 2017 Jul;106(Suppl 1):390S-401S. doi: 10.3945/ajcn.116.142166. Epub 2017 Jun 14. Review. PubMed PMID: 28615251; PubMed Central PMCID: PMC5490644.
3. Rohner F, Namaste SM, **Larson LM**, Addo OY, Mei Z, Suchdev PS, Williams AM, Sakr Ashour FA, Rawat R, Raiten DJ, Northrop-Clewes CA. Adjusting soluble transferrin receptor concentrations for inflammation: Biomarkers Reflecting Inflammation and Nutritional Determinants of Anemia (BRINDA) project. *Am J Clin Nutr*. 2017 Jul;106(Suppl 1):372S-382S. doi: 10.3945/ajcn.116.142232. Epub 2017 Jun 14. Review. PubMed PMID: 28615256; PubMed Central PMCID: PMC5490651.
2. **Larson LM**, Addo OY, Sandalinas F, Faigao K, Kupka R, Flores-Ayala R, Suchdev PS. Accounting for the influence of inflammation on retinol-binding protein in a population survey of Liberian preschool-age children. *Matern Child Nutr*. 2017 Apr;13(2). doi: 10.1111/mcn.12298. Epub 2016 Feb 4. PubMed PMID: 26842430; PubMed Central PMCID: PMC4974149.
1. **Larson LM**, Yousafzai AK. A meta-analysis of nutrition interventions on mental development of children under-two in low- and middle-income countries. *Matern Child Nutr*. 2017 Jan;13(1). doi: 10.1111/mcn.12229. Epub 2015 Nov 26. Review. PubMed PMID: 26607403; PubMed Central PMCID: PMC6866072.

 BOOK CHAPTERS & REPORTS (numbered in reverse chronological order)

1. World Health Organization & United Nations Children's Fund (UNICEF). (2023). Best practices for haemoglobin measurement in population-level anaemia surveys: technical brief, January 2024. World Health Organization. <https://iris.who.int/handle/10665/376128>. License: CC BY-NC-SA 3.0 IGO
2. **Larson, L.M.**, Frongillo, E.A., Leroy, J.L., 2023. Growth monitoring and promotion. In: Caballero, B. (Ed.), *Encyclopedia of Human Nutrition*, vol. 4. Elsevier, Academic Press, pp. 83–90. <https://dx.doi.org/10.1016/B978-0-12-821848-8.00008-1>.

 CONFERENCE AND TECHNICAL MEETING PRESENTATIONS (numbered in reverse chronological order)

35. **Larson LM, Stewart C.** Nutrition and its influence on early childhood development: a symposium inspired by the late Dr. Elizabeth L. Prado. Symposium Speaker and Organizer. American Society of Nutrition Meeting. Chicago, IL. June 28-July 2, 2024.
34. **Larson LM.** Emerging Innovations in Anemia Epidemiology, Etiology, and Interventions. Symposium Speaker and Organizer. American Society of Nutrition Meeting. Chicago, IL. June 28-July 2, 2024.
33. **Larson LM.** Micronutrient interventions and cognitive development (Electroencephalography – EEG). Invited Symposium Speaker. Micronutrient Forum. The Hague, Netherlands. October 16-19, 2023.
32. †Isanovic, S., Sanoe, M., Wooten, S., Frongillo, E.A., Yousafzai, A.K., Blake, C.E., Kanyangarara, M., Swan, M., Rodger, N., Murray, M., & **Larson, L.M.** “Integrated child nutrition, parenting, and health intervention in rural Liberia: A mixed-methods feasibility study.” Poster presentation. Nutrition 2023: American Society for Nutrition flagship meeting. Boston, MA. July 22-25, 2023.
31. †Thurber A, **Larson LM.** A systematic review of behavioral and educational interventions in adolescent mothers and effects on child development (poster). Discover USC. Columbia, SC. April 21, 2023.
31. **Larson LM.** Integrated child nutrition, parenting, and health intervention in rural Liberia: A mixed methods feasibility study (Invited Symposium Speaker). Society for Research in Child Development. Salt Lake City, UT. March 23-25, 2023.
30. **Larson LM.** Rethinking growth monitoring and promotion as an opportunity to improve early childhood development (Invited Symposium Speaker). *International Congress of Nutrition*. Tokyo, Japan. December 6-11 2022.
29. **Larson LM.** Enabling children to thrive through nutrition and responsive parenting (Oral). *USC Nutrition Symposium*. Columbia, SC. March 31 2022.
28. **Larson LM.** Pre-analytic and analytic factors affecting the measurement of hemoglobin concentration: impact on global estimates of anemia prevalence (Oral). *WHO technical meeting on the role of infections, inflammation and genetic ancestry as determinants for adjusting haemoglobin cutoffs to define anaemia, and other considerations on blood sampling and analytical methods*. December 1-3 2021.
27. **Larson LM**, Feuerriegel D, Hasan MI, Braat S, Jin J, Tipu SMMU, Shiraji S, Tofail F, Biggs BA, Hamadani J, Johnson K, Bode S, Pasricha SR. Effects of supplementation with iron syrup or iron-containing multiple micronutrient powders on neural indices of cognitive functioning in Bangladeshi children (oral). *Nutrition*. Virtual due to COVID-19 pandemic. June 2021.

26. **Larson LM.** Effects of increased hemoglobin on child growth, development, and disease (oral). *WHO technical meeting on considerations to determine haemoglobin concentrations to define anaemia in the lifecycle*. April 27-29 2021.
25. **Larson LM,** Thomas T, Kurpad A, Hoddinott J, Martorell R, Swaminathan S, Neufeld LM. Etiology of anemia among children 6-59 months and non-pregnant women of reproductive age in India (invited symposium speaker). *Micronutrient Forum*. Virtual due to COVID-19 pandemic. November 2020.
24. Prado EL, **Larson LM.** Ten Steps to Success for Measuring Early Childhood Development in Global Nutrition Research (Learning Center). *Micronutrient Forum*. Virtual due to COVID-19 pandemic. November 2020.
23. **Larson LM,** Hasan MI, Shiraji S, Tofail F, Braat S, Biggs BA, Hamadani J, Pasricha SR. Biopsychosocial correlates of early child development in Bangladesh: evidence from the Benefits and Risks of Iron Supplementation in Children (BRISC) trial (poster). *Micronutrient Forum*. Virtual due to COVID-19 pandemic. November 2020.
22. **Larson LM,** Hasan MI, Braat S, Baldi AJ, Bhuiyan MSA, Biggs BA, Hamadani J, Pasricha SR. Agreement between venous and capillary haemoglobin concentrations in Bangladeshi children (poster). *Nutrition*. Baltimore. June 2019.
21. **Larson LM,** Hasan MI, Feuerriegel D, Shiraji S, Shabnab S, Tofail F, Braat S, Biggs BA, Pasricha SR, Hamadani J, Bode S, Johnson K. Using a developmental test and electroencephalography to examine child cognition and its predictors in Bangladesh (poster). *Nutrition*. Baltimore. June 2019.
20. **Larson LM,** Cyriac S, Dijmeu EW, Mbuya MNN, Neufeld LM. Can double fortification of salt with iron and iodine reduce anaemia, iron deficiency anaemia, iron deficiency, and iodine deficiency? Evidence of efficacy, effectiveness, and safety. Iodine Global Network: Double Fortified Salt Global Consultation. Seattle, USA. 4-5 April, 2019.
19. **Larson LM,** Kubes JN, Cox K, Shankar A, Prado EL. Meta-analysis of the effects of various types of early life interventions on linear growth vs. neurodevelopment (Oral). Symposium title: Pathways to Child Growth and Development: Is Linear Growth Retardation a Valid Indicator of Delayed Neurodevelopment? *Nutrition*. Boston. June 2018.
18. **Larson LM,** Kubes JN, Ramirez-Luzuriaga MJ, Khishen S, Shankar A, Prado EL. Associations and effects of increased hemoglobin in infants and preschool children on growth and development: a systematic review and meta-analysis (Oral). *Nutrition*. Boston. June 2018.
17. **Larson LM,** Thomas T, Kurpad A, Hoddinott J, Martorell R, Swaminathan S, Neufeld LM. Anemia in women and children in Uttar Pradesh: a path analysis of the associations between nutritional, environmental, infectious, and genetic determinants (Poster). *Nutrition*. Boston. June 2018.
16. **Larson LM,** Kubes JN, Ramirez-Luzuriaga MJ, Khishen S, Shankar A, Prado EL. Associations and effects of increased hemoglobin in infants and preschool children on growth, development and chronic disease: a systematic review and meta-analysis. WHO Technical Meeting: Use and interpretation of hemoglobin concentrations for assessing anemia status in individuals and populations. Geneva, Switzerland. 29 November-1 December 2017.
15. **Larson LM,** Martorell R, Bauer PJ. Relation between diet, nutritional status, and stimulation and child development: a path analysis in infants and young children living in Bihar, India (Oral). *International Congress of Nutrition*. Buenos Aires, Argentina, October 2017.
14. **Larson LM,** Thomas T, Kurpad A, Hoddinott J, Martorell R, Swaminathan S, Neufeld LM. Anemia in women and children in Uttar Pradesh, India: the contribution of nutritional, environmental, infectious, genetic, and

- underlying social determinants (Oral). *International Congress of Nutrition*. Buenos Aires, Argentina, October 2017.
13. Swaminathan S, Thomas T, Neufeld LM, **Larson LM**, Kurpad A. Dietary intake of preschool children in Uttar Pradesh, India (Oral). *International Congress of Nutrition*. Buenos Aires, Argentina, October 2017.
 12. **Larson LM**, Young M, Bauer PJ, Mehta R, Webb Girard A, Ramakrishnan U, Verma P, Chaudhuri I, Srikantiah S, Martorell R. Home fortification with multiple micronutrient powders improves infant and young child development in Bihar, India (Oral). *Experimental Biology*. Chicago, IL, April 2017.
 11. **Larson LM**, Young M, Bauer PJ, Mehta R, Webb Girard A, Ramakrishnan U, Verma P, Chaudhuri I, Srikantiah S, Martorell R. Home fortification with multiple micronutrient powders improves infant and young child development in Bihar, India (Poster – Winner of the Emerging Leaders Competition). *Experimental Biology*. Chicago, IL, April 2017.
 10. Young M, Mehta R, Gosdin L, Kekre P, Verma P, **Larson LM**, Webb Girard A, Ramakrishnan U, Chaudhuri I, Srikantiah S, Martorell R. Impact of home fortification of complementary foods program on child anemia and stunting in Bihar, India. (Oral). *Experimental Biology*. Chicago, IL, April 2017.
 9. **Larson LM**, Namaste SML, Williams AM, Engle-Stone R, Addo OY, Suchdev PS, Wirth JP, Temple V, Serdula M, Northrop-Clewes CA. Adjusting retinol binding protein concentrations for inflammation: the BRINDA project (Oral). *Micronutrient Forum*. Cancun, Mexico, October 2016.
 8. Northrop-Clewes CA, **Larson LM**, Namaste SML, Williams A, Engle-Stone R, Addo OY, Suchdev PS, Wirth JP, Temple V, Serdula M. Comparison of algorithms for adjusting serum retinol concentrations in the presence of an acute phase response in four countries (Poster). *Micronutrient Forum*. Cancun, Mexico, October 2016.
 7. **Larson LM**, Mehta R, Young M, Kekre P, Verma P, Webb Girard A, Ramakrishnan U, Chaudhuri I, Srikantiah S, Martorell R. Determinants of developmental milestones in infants and young children in Bihar, India (Oral). *Experimental Biology*. San Diego, CA, April 2016
 6. **Larson LM**, Mehta R, Young M, Kekre P, Verma P, Webb Girard A, Ramakrishnan U, Chaudhuri I, Srikantiah S, Martorell R. Determinants of developmental milestones in infants and young children in Bihar, India (Poster – Emerging Leaders Competition). *Experimental Biology*. San Diego, CA, April 2016
 5. **Larson LM**, Suchdev PS, Namaste S, Addo OY & Sullivan K. Approaches to Account for the Influence of Inflammation on Nutrient Biomarkers in Preschool-Age Children (Poster). *Pediatric Research Conference*. Atlanta, GA, June 2015
 4. **Larson LM**, Addo OY, Sandalinas F, Baawo K, Faigao K, Kupka R, Flores-Ayala R & Suchdev PS. Accounting for the Influence of Inflammation on Retinol Binding Protein in a Population Survey of Liberian Preschool-Aged Children (Oral). *Experimental Biology*. Boston, MA, March 2015
 3. **Larson LM** & Yousafzai AK. A Meta-Analysis Shows Small Effects from Nutrition Interventions on Mental Development of Children Under-Two in Low- and Middle-Income Countries (Poster). *The Tenth Annual DSAC Student Research Symposium*. Atlanta, USA, January 2015
 2. **Larson LM** & Yousafzai AK. Meta-Analyses of Nutrition and Stimulation Interventions: Effects on Child Development (Oral). *Micronutrient Forum*. Addis Ababa, Ethiopia, June 2014
 1. **Larson LM** & Yousafzai AK. The Impact of Nutrition Interventions on Mental Development of Children Under-Two: A Meta-Analysis of Randomized Controlled Trials in Low- and Middle-Income Countries (Poster). *Micronutrient Forum*. Addis Ababa, Ethiopia, June 2014

SEMINAR AND TEACHING PRESENTATIONS (numbered in reverse chronological order)

35. **Larson LM.** Guest lecturer. Global maternal and child nutrition. *Nutritional Epidemiology* (EPID 763). University of South Carolina. 11/12/2024
34. **Larson LM.** Guest lecturer. Nutrition and infectious disease. *Infectious Disease Epidemiology* (EPID 394). University of South Carolina. 09/25/2024
33. **Larson LM.** Guest lecturer. Nutrition and health. *Introduction to Infectious Disease Epidemiology* (EPID 794). University of South Carolina. 05/20/2024
32. **Larson LM.** Guest speaker. Collaborating with non-academic settings: Reflections on working with national and international organizations. *Doctoral seminar* (HPEB 704B). University of South Carolina. 04/22/2024
31. **Larson LM.** Guest lecturer. Nutrition and health. *Introduction to Infectious Disease Epidemiology* (EPID 794). University of South Carolina. 06/05/2023
30. **Larson LM.** Guest speaker. Collaborating with non-academic settings: Reflections on working with national and international organizations. *Doctoral seminar* (HPEB 704B). University of South Carolina. 04/10/2023
29. **Larson LM.** Guest lecturer. Enabling Children to Thrive through nutrition and early learning opportunities: evidence from global health trials. *Nutrition Through the Lifecycle* (HPEB 620). University of South Carolina. 03/14/2023
28. **Larson LM.** Guest lecturer. An ethical perspective on global health work. *Socio-cultural Perspectives on Population Health* (HPEB 771). University of South Carolina. 11/07/2022
27. **Larson LM.** Guest lecturer. An ethical perspective on global health work. *Global Health Epidemiology* (EPID 542). University of South Carolina. 11/01/2022
26. **Larson LM.** Seminar speaker. An ethical perspective on global health work. APHIDS student organization. University of South Carolina. 10/19/2022
25. **Larson LM.** Guest lecturer. Nutrition and Health. *Infectious Disease Epidemiology* (EPID 349). University of South Carolina. 09/28/2022
24. **Larson LM.** Seminar speaker. Enabling Children to Thrive through nutrition and early learning opportunities: evidence from global health trials. Grand Rounds, Pediatrics Greenville. 08/19/2022
23. **Larson LM.** Seminar speaker. Effects of iron supplementation on neural indices of habituation in Bangladeshi children. Walter and Eliza Hall Institute, Australia. 07/27/2022
22. **Larson LM.** Guest speaker. *HPEB 704B: Doctoral seminar - Partnerships*. University of South Carolina. 04/11/2022
21. **Larson LM.** Invited panel speaker. HPEB Panel: The Academic Job Hunt. University of South Carolina. 04/07/2022
20. **Larson LM.** Seminar speaker. Effects of iron supplementation on brain function in Bangladeshi children. Institute for Global Nutrition, University of California Davis. 03/09/2022

19. **Larson LM.** Guest lecturer. Lessons learned from implementing global health research. *Global Health Epidemiology*. University of South Carolina. 10/28/2021
18. **Larson LM.** Guest speaker. *HPEB doctoral seminar*. University of South Carolina. 3/1/2021
17. **Larson LM.** Nutritional Trials in Global Health. *Nutritional Epidemiology (EPID 763)*, University of South Carolina. 11/02/2020.
16. **Larson LM.** Malnutrition and neurodevelopment in global health. *Melbourne Children's Global Health – Doherty Institute Global Health Seminar Series*. October 2019.
15. **Larson LM.** Stunting and child development: how do we make an impact? *Walter and Eliza Hall Institute*. October 2019.
14. **Larson LM.** Event-related brain potentials: a neurophysiological technique. *Walter and Eliza Hall Institute*. August 2019.
13. **Larson LM.** Effects of nutrition on child development in low- and middle-income countries. *Burnet Institute*. September 2018.
12. **Larson LM.** Nutrition and child development: evidence and experience from global health trials. *Monash University*. July 2018.
11. **Larson LM.** The consequences of malnutrition and effects of multiple micronutrient powders on young child development in India. *McGill University, Nutrition Colloquium*. November 2017.
10. **Larson LM.** Nutrition and Child Development. *Emory University, Maternal and Child Nutrition course*. April 2017.
9. **Larson LM.** Biomarkers Reflecting Inflammation and Nutrition Determinants of Anemia (BRINDA) project. *Emory University, Maternal and Child Nutrition course*. March 2017.
8. **Larson LM.** Home Fortification Project in India. *Emory University Nutrition Seminar*. March 2017.
7. **Larson LM.** Home Fortification Project in Bangladesh. *Emory University, Global Elimination of Micronutrient Malnutrition course*. October 2015.
6. **Larson LM.** Nutrition and Child Development. *Emory University, Human Nutrition Course*. April 2015.
5. **Larson LM.** Maternal docosahexaenoic acid supplementation and early infant brain development: a randomized controlled trial in Karnataka, India. *Emory University Nutrition Seminar*. March 2015
4. **Larson LM.** Micronutrient Malnutrition and Child Development. *Global Elimination of Micronutrient Malnutrition course*. October 2014
3. **Larson LM.** Measuring Child Development in Bihar, India. *Emory University Nutrition Seminar*. September 2014
2. **Larson LM.** The Impact of Nutrition Interventions on Mental Development of Children Under-Two: A Meta-Analysis of Randomized Controlled Trials in Low- and Middle-Income Countries. *Emory University Nutrition Seminar*. March 2014
1. **Larson LM.** Environmental Enteropathy. *Emory University Nutrition Seminar*. October 2013

GRANTS AND OTHER FUNDING

Ongoing Research Support:

Iodine Global Network Larson (PI) 09/15/24-02/01/25
 Meta-analysis of the effect of double fortified salt
 (US\$10,000)
 Role: PI

University of South Carolina ASPIRE I Larson (PI) 07/01/24-30/09/25
 Understanding the influence of climate extremes on pediatric health and development in the United States
 (US\$15,000)
 Role: PI

USC Big Data Science Center R25 Fellowship Larson (PI) 07/01/24-06/30/25
 The role of infection in determining a functional hemoglobin threshold to define anemia (25% salary & fringe support)
 The goal of the study is to examine how infection modifies the hemoglobin threshold to define anemia.
 Role: PI

Completed Research Support:

Bill and Melinda Gates Foundation Leroy (PI) 08/01/22-12/31/2024
 Redesigning GMPs to improve nutrition, health and development of children (US\$774,676)
 The goal of this study is to re-examine the use of growth monitoring and promotion to address child health and development.
 Role: Co-I

Nestle Foundation Adebisi (PI) 01/01/24-12/31/24
 Breastfeeding Decision-making and Practices Among Working Mothers and Role of External Influences in Urban Nigeria (US\$20,000)
 The goal of this study is to qualitatively understand the perspectives of working mothers in Nigeria on breastfeeding decision making when returning to work.
 Role: Co-I (Primary advisor)

USC Big Data Science Center Pilot Program grant Larson (PI) 08/15/22-08/14/24
 Determining a functional hemoglobin threshold to define anemia in children and women (US\$29,965)
 The goal of this study is to examine a hemoglobin threshold to define anemia in children and women using PRISMA data.
 Role: PI

International Food Policy Research Institute (IFPRI) Larson (PI) 03/01/2023-09/31/2023
 Joint Interventions to Improve Birth Outcomes and Nutrition Research Project in Bangladesh (US\$23,278)
 The goal of this study is to conduct a process evaluation of a cash transfer and food provision intervention.
 Role: PI

Burroughs Wellcome Fund Nolan (PI) 01/01/23-12/31/23
 Employing a big data approach to elucidate three decade's impact of extreme weather events on early childhood development in the United States (US\$50,000)
 The goal of this study is to examine how extreme climate temperatures and rainfall over the past 30 years are associated with early child development across the U.S.

Role: Co-I

USC Research Center for Transforming Health Haldeman (PI) 01/01/23-12/31/23
Sonographic findings and predictor of disease severity in malnourished children in Zambia: The STAMP
ultrasound study

The goal of the study is to investigate the validity of using a point of care ultrasound to identify children with moderate and severe acute malnutrition in Zambia.

Role: Co-I

University of South Carolina ASPIRE I Larson (PI) 01/07/21-30/06/22
Integrated psychosocial, nutritional, and health intervention to improve early child development in Liberia
(US\$14,934)

The goal of this study is to assess the feasibility and acceptability of an integrated parenting, nutrition, and health intervention in rural Liberia.

Role: PI

Thrasher Foundation Early Career Grant Larson (PI) 01/05/19-30/04/22
The influence of hepcidin on benefits and risks of iron supplementation in Bangladeshi children (US\$25,000)

The goal of this study is to examine the role of hepcidin concentration on children's response to iron and micronutrient supplementation in Bangladesh.

Role: PI

Bill and Melinda Gates Foundation Pasricha (PI) 01/10/18-30/04/22
Randomised controlled trial of the effect of intraVenous iron on Anaemia in Malawian Pregnant women - REVAMP:
Supplemental grant for substudies (US\$1.2m)

The goal of this study is to examine the effects of prenatal iron on maternal and child health outcomes.

Role: Co-I

Global Alliance for Improved Nutrition Frongillo (PI) 10/20/20 - 10/08/21
Impact Evaluation of GAIN Egg Campaign in two Nigerian States (US\$36,226)

The goal of the study is to examine the impact of a demand creation campaign on child egg consumption.

Role: Co-I

Iodine Global Network Larson (PI) 01/09/18-31/12/19
Evidence of efficacy, effectiveness, and safety of double fortified salt (DFS) in improving reducing anemia, iron
deficiency anemia, iron deficiency, and iodine deficiency (US\$5,000)

The goal of this review is to systematically and objectively examine the evidence from efficacy and effectiveness trials of Double Fortified Salt.

Role: PI

University of Melbourne Early Career Grant Larson (PI) 01/01/19-31/12/19
Effects of iron interventions on child neurodevelopment in Bangladesh (AU\$49,500)

The goal of this study is to examine the effects of iron supplementation on neural indices of memory and attention in Bangladeshi children.

Role: PI

World Health Organization Larson (PI) 01/03/17-12/31/18
Associations and effects of increased hemoglobin in preschool children on growth, development and chronic
disease: a systematic review and meta-analysis (US\$3,000)

The goal is to conduct a systematic review and meta-analysis to produce quantitative estimates of the associations of child hemoglobin concentration with three main outcomes: 1) longitudinal and ponderal growth, 2) cognitive, psychomotor, and behavioral development, and 3) long-term chronic disease.

Role: PI

World Health Organization Neufeld (PI) 01/03/17-12/31/18
 Anemia diagnosis in venous and capillary blood: biological basis and policy implications (US\$3,000)
 The goal is to review the evidence and use our own data from India to examine possible reasons for differences in hemoglobin concentrations using venous and capillary blood samples.
 Role: co-I

Thrasher Research Fund Martorell (PI) 01/11/15-31/10/17
 Assessing the impact of home fortification of complementary foods on child cognitive development: a cluster randomized community pilot (US\$120,000)
 The goal of this study is to examine the effectiveness of home fortification with multiple micronutrient powders on memory and executive function of children 12-18 months of age living in Bihar, India.
 Role: co-I (Principal writer)

TEACHING

Fall 2021, 2022, 2024	Evaluation of Health Promotion Programs – HPEB 710
Spring 2021, 2022, 2023, 2024	Responding to Global Health Challenges – HPEB 772
Fall 2022, 2024	Independent Study: R programming – HPEB 790
Spring 2021	Principles of Global Health – HPEB 470

PROFESSIONAL MEMBERSHIP AND OTHER EXPERIENCE

Memberships:

2014 – Current	American Society of Nutrition, ASN
2014 – 2015, 2023- Current	Society for Research in Child Development, SRCD
2014 - 2020	New York Academy of Sciences, NYAS
2005 – 2010	Golden Key Society
2005 – 2010	Engineering Without Borders, EWB Canada

Supervisorship:

2022-Current	Honors student senior thesis advisor
2022-Current	Undergraduate student research experience advisor
2022-Current	PhD student dissertation committee member, UofSC (4 students)
2021-Current	PhD Student Primary Advisor, University of South Carolina (3 students)
2022	MPH Student Practicum Supervisor, University of South Carolina
2021	Mentor at Saving Brains Data Analysis and Writing Workshop, Virtual
2020	Mentor at Saving Brains Data Analysis and Writing Workshop, Virtual
2019	Honours Student Supervisor, The University of Melbourne
2019	Mentor at Saving Brains Data Analysis and Writing Workshop, Dubai
2019	Mentor at Saving Brains Data Analysis and Writing Workshop, Sao Paulo
2016 - 2017	MPH Student Practicum Supervisor, Emory University
2014 – 2018	PhD Student Mentor, Emory University

Committee Involvement:

2024-Current	UofSC HPEB Doctoral committee
2022-Current	Maternal and Child Nutrition Journal Early Career Researcher Editorial Board member
2022-2024	UofSC HPEB Masters committee
2022-2023	Faculty advisor to the UofSC Maternal and Child Health Student Association

2021-2022	UofSC HPEB Faculty search committee
2021	UofSC MCH certificate working group
2020 - 2022	Global Nutrition Council in the American Society of Nutrition, Early Career Representative on governing committee
2020 - Current	Student Engagement Committee, Department of Health Promotion, Education, and Behavior, University of South Carolina
2019	Doherty-Melbourne Children's Global Health Seminar series, Organizing Committee Member, Melbourne, Australia
2019	Australian Iron Network Meeting, Organizing committee, Melbourne, Australia

Journal Peer Review:

Journal of Nutrition (2024, 2023, 2022, 2021, 2019, 2018, 2017, 2015), *American Journal of Clinical Nutrition* (2024, 2023, 2022, 2021, 2020), *Maternal and Child Nutrition* (2024, 2023, 2022), *New England Journal of Medicine* (2024), *Plos One* (2022), *BMC Public Health* (2022, 2021), *Archives of Disease in Childhood* (2021), *Journal of Child and Family Studies* (2020, 2021), *BMJ Global Health* (2024, 2021), *Social Science and Medicine – Population Health* (2021), *Annals of the New York Academy of Sciences* (2021, 2020), *Nutritional Neuroscience* (2020), *European Journal of Clinical Nutrition* (2020, 2019, 2017), *Epidemiology and Infection* (2020), *Plos One* (2019), *Nutrients* (2019), *Lancet Global Health* (2018), *British Medical Journal Global Health* (2018), *Current Developments in Nutrition* (2018, 2017), *Tropical Medicine & International Health* (2018), *American Journal of Tropical Medicine and Hygiene* (2017), *Maternal and Child Health Journal* (2017), *The Journal of Pediatrics* (2016), *Epidemiology and Infection* (2016, 2015), *Journal of Child Psychology and Psychiatry* (2015), *Journal of Health, Population and Nutrition* (2015), *International Journal of Health Policy and Management* (2015), *British Medical Journal* (2014)

Other Experience:

2024	Expert consultant on NuMERAL Learning Agenda Consultation on Early Childhood Development
2023-2024	Reviewer on NIEHS review panel – P20: Exploratory Grants for Climate Change and Health Research Center Development
2023-2024	External expert. UNICEF/ WHO TEAM group (Technical Expert Advisory Group on Nutrition Monitoring).
2023-2024	Invited member of WHO Expert Guidance on Complementary feeding interventions.
2022	Invited external expert: Second meeting of the WHO guideline development group –Anaemia: Use and interpretation of haemoglobin concentrations for assessing anaemia status in individuals and populations
2021	Invited speaker at WHO technical meeting on the role of infections, inflammation and genetic ancestry as determinants for adjusting haemoglobin cutoffs to define anaemia, and other considerations on blood sampling and analytical methods
2021	Invited speaker at WHO technical meeting on considerations to determine haemoglobin concentrations to define anaemia in the lifecycle
2021	Invited guest speaker at the ISSA Network Early Childhood Matters webinar In Bulgaria on our Lancet Global Health paper
2019	Double Fortified Salt Global Consultation, Bill and Melinda Gates Foundation, Seattle, USA
2017	WHO Technical Meeting on Anemia, Geneva, Switzerland
2014-2015	Coordinator of the Nutrition Journal Club at Emory University

ACADEMIC AWARDS

2021	Top Reviewer Award for The American Journal of Clinical Nutrition
2019	The Walter and Eliza Hall Institute of Medical Research Postdoctoral Association Travel Award (\$3000)

2018	McCormick Award (awarded to one graduating PhD student in Emory University's Nutrition and Health Sciences every year), \$400
2018	Emory University Nutrition and Health Sciences Student Mentor Award
2017	Experimental Biology Emerging Leaders Poster Competition – First Place, \$100
2016	Rollins School of Public Health Livingston Fellowship, \$2100
2016	Sight and Life, The Future of Micronutrient Innovation– Elevator Pitch Contest; semi-finalist
2008	Egil H Lorntzsen Scholarship, \$1000
2008	Cecil J Coveney Memorial Scholarship
2007	Shell Prize in Field Geology, \$500
2006	Egil H Lorntzsen Scholarship, \$1000
2005	President's Entrance Book Award, \$500
2005	AP Scholars Book Award, \$500
2005	Major Entrance Scholarship, \$5000
2005	University of British Columbia Scholarship
2005	Charles Victor Ryder Entrance Scholarship in Engineering, \$1950

COMMUNITY OUTREACH EXPERIENCE

2017	Ronald McDonald House Charity, Volunteer, Atlanta, USA
2011	Palestinian Women's Humanitarian Organization, English Teacher, Beirut, Lebanon
2010	East Vancouver's Women's Shelter, Volunteer, Vancouver, Canada
2010	Out of the Cold Homeless Shelter, Volunteers, Vancouver, Canada
2005 - 2010	Engineers Without Borders, Director of High School Outreach Program and Member, Vancouver, Canada

PROGRAMMING SKILLS

Proficient in SAS, R, Stata, MPlus
Intermediate knowledge of Matlab.

FOREGIN LANGUAGE SKILLS

Fluent in English and French.
Intermediate in Arabic and Spanish.