

USHA RAMAKRISHNAN, Ph.D.

CURRENT POSITION

Chair & Distinguished Richard N. Hubert Professor of Global Health

Hubert Department of Global Health
The Rollins School of Public Health of Emory University
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Born: February 3, 1963 (Lucknow, India)

EDUCATION

- May 1993 **Doctor of Philosophy**,
Major: International Nutrition, Minors: Epidemiology, Human Nutrition
Division of Nutritional Sciences, Cornell University, Ithaca NY
- May 1985 **Master of Science**, Foods and Nutrition, University of Madras, India
- May 1983 **Bachelor of Science**, Nutrition, Dietetics and Food Service Management
University of Madras, India

HONORS AND AWARDS

Fellowships

- May 1990 **Esta M. Ress Fellowship**, The College of Human Ecology, Cornell University,
Ithaca, NY
- May 1989 **Ethel B. Waring Fellowship**, The College of Human Ecology, Cornell University,
Ithaca, NY
- May 1985 **Merit Scholarship**, University of Madras, India

Awards

- Nov 2020 **Kamla Puri Sabharwal Memorial Lecture Award**, Lady Irwin College
“Importance of Maternal Nutrition for Child Health and Development”
- Oct 2020 **Marion V. Creekmore Award for Internationalization** for Emory Faculty
member who excels in the advancement of the University’s commitment to
internationalization endowed by Claus M. Halle, Emory University
- June 2008 **Woodruff Leadership Academy (WLA) fellow**, Woodruff Health Sciences
Center Leadership training program, Emory University
- April 2003 **Norman Kretchmer Award** from the American Society for Clinical Nutrition,
Inc. This award is given to a young investigator who will be 45 years of age or

younger at the time of the award for research in the field of nutrition and development. (Sponsored by Abbott Labs, Ross Products Division)

- April 1993 **Young Investigator/Student Award** for outstanding research from the Society for International Nutrition Research (a division of American Society of Nutritional Sciences) at the Experimental Biology meeting 1993 at New Orleans
- May 1985 **Weikfield Food Trophy** for highest marks in Food Science in M.S., University of Madras, India
- May 1985 **Dr. Ratnabai Arulambal Award** for highest marks in Biochemistry in M.S., University of Madras, India
- May 1985 **Women's Christian College Home Science Dept Award** for Best Thesis in M.S., University of Madras, India
- May 1985 **Dr. Eleanor Mason Nutrition Prize** for highest GPA in M.S., University of Madras, India
- May 1983 **II State rank in B.S.**, University of Madras, India

PROFESSIONAL EXPERIENCE

- 2020 to date **Chair & Distinguished Richard N. Hubert Professor** of Global Health (HDGH), Rollins School of Public Health (RSPH) Emory University, Atlanta, GA
- 2020 to date **Graduate Faculty**, Global Health and Development (GHD) Doctoral Program, Laney Graduate School (LGS), Emory University, Atlanta, GA
- 2019 to date **Adjunct Faculty**, Sri Ramachandra Institute of Higher Education and Research, Chennai, India
- 2021 to date **Adjunct Faculty**, Avanashilingam Womens University, Coimbatore, India
- 2011 to date **Adjunct Faculty**, Instituto Nacional de Salud Pública (INSP), Cuernavaca, Mexico
- 1996 to date **Graduate Faculty**, Doctoral Program in Nutrition and Health Sciences (NHS), LGS, Emory University.
- 2019 to 2020 **Interim Chair**, HDGH, RSPH, Emory University, Atlanta, GA
- 2013 to 2020 **Professor of Global Health (tenured)**, HDGH, RSPH, Emory University, Atlanta, GA
- 2015 -2019 **Vice-Chair**, HDGH, RSPH, Emory University, Atlanta, GA
- 2007 - 2019 **Director**, Doctoral Program in Nutrition and Health Sciences, LGS, Emory University, Atlanta, GA

- 2004 - 2013 **Associate Professor (tenured)**, HDGH, RSPH, Emory University, Atlanta, GA
- 1998-2004 **Assistant Professor (Tenure-track)**, Department of International Health, Rollins School of Public Health (RSPH), Emory University, Atlanta, GA
- 1996-1998 **Research Assistant Professor**, Department of International Health, RSPH, Emory University, Atlanta, GA (non-tenure track)
- 1994-1996 **Research Associate**, Department of International Health, RSPH, Emory University, Atlanta, GA
- 1993-1994 **Research Associate**, Division of Nutritional Sciences, Cornell University, Ithaca, NY
- 1987-1993 **Graduate Research Assistant**, Division of Nutritional Sciences, Cornell University, Ithaca, NY
- 1986- 1987 **Research Investigator**, National Institute of Public Cooperation and Child Development (NIPCCD), New Delhi, India

AREAS OF EXPERTISE: Maternal and child nutrition, effects of nutrition on pregnancy outcomes (preterm birth, low birth weight) and early childhood growth and development; omega-3 fatty acids, micronutrients during pregnancy and early childhood, nutritional anemias; iron and vitamin A deficiency; multiple micronutrient malnutrition; nutritional assessment; evaluation of maternal and child health programs; multigenerational effects of early childhood nutrition on offspring health and development.

LANGUAGES

English (fluent), Tamil (fluent), Hindi (fluent), French (conversant), Spanish (conversant)

PROFESSIONAL ORGANIZATIONS

American Society for Nutrition (Medical Nutrition Council and Global Nutrition Council)
 American Public Health Association; Delta Omega Society

PUBLICATIONS –

> 250 publications in peer-reviewed journals (239) book chapters (19), reports, monographs and edited works (10)

A. Peer Reviewed Articles

1. *Jenkins M, Jefferds MED, Aburto NJ, **Ramakrishnan U**, Hartman TJ, Martorell R, Addo OY. Development of a Population-Level Dichotomous Indicator of Minimum Dietary Diversity as a Proxy for Micronutrient Adequacy in Adolescents Aged 10-19 Y in the United States. *J Nutr*. 2024 Sep;154(9):2795-2806. doi: 10.1016/j.tjnut.2024.06.002. Epub 2024 Jun 23. PMID: 38917947
2. Checkley W, Thompson LM, Hossen S, Nicolaou L, Williams KN, Hartinger SM, Chiang M, Balakrishnan K, Garg SS, Thangavel G, Aravindalochanan V, Rosa G, Mukeshimana A, Ndagijimana F, McCracken JP, Diaz-Artiga A, Sinharoy SS, Waller L, Wang J, Jabbarzadeh S, Chen Y, Steenland K, Kirby MA, **Ramakrishnan U**, Johnson M, Pillarisetti A, McCollum ED, Craik R, Ohuma EO, Dávila-Román VG, de Las Fuentes L, Simkovich SM, Peel JL, Clasen TF, Papageorghiou AT; Household Air Pollution Intervention Network (HAPIN) Investigators. Cooking with liquefied petroleum gas or biomass and fetal growth outcomes: a multi-country randomised controlled trial. *Lancet Glob Health*. 2024 May;12(5):e815-e825. doi: 10.1016/S2214-109X(24)00033-0. Erratum in: *Lancet Glob Health*. 2024 Jul;12(7):e1093. doi: 10.1016/S2214-109X(24)00223-7. PMID: 38614630; PMCID: PMC11027158.
3. *Bookhart LH, Anstey EH, Kramer MR, Perrine CG, **Ramakrishnan U**, Young MF. Unpacking Breastfeeding Disparities: Baby-Friendly Hospital Designation Associated with Reduced In-Hospital Exclusive Breastfeeding Disparity Attributed to Neighborhood Poverty. *Matern Child Health J*. 2024 Aug;28(8):1404-1412. doi: 10.1007/s10995-024-03939-x. Epub 2024 Jun 1. PMID: 38822925.
4. *Tran LM, Nguyen PH, Young MF, Martorell R, **Ramakrishnan U**. The relationships between optimal infant feeding practices and child development and attained height at age 2 years and 6-7 years. *Matern Child Nutr*. 2024 Jul;20(3):e13631. doi: 10.1111/mcn.13631. Epub 2024 Mar 7. PMID: 38450914; PMCID: PMC11168365.
5. Checkley W, Thompson LM, Hossen S, Nicolaou L, Williams KN, Hartinger SM, Chiang M, Balakrishnan K, Garg SS, Thangavel G, Aravindalochanan V, Rosa G, Mukeshimana A, Ndagijimana F, McCracken JP, Diaz-Artiga A, Sinharoy SS, Waller L, Wang J, Jabbarzadeh S, Chen Y, Steenland K, Kirby MA, **Ramakrishnan U**, Johnson M, Pillarisetti A, McCollum ED, Craik R, Ohuma EO, Dávila-Román VG, de Las Fuentes L, Simkovich SM, Peel JL, Clasen TF, Papageorghiou AT; Household Air Pollution Intervention Network (HAPIN) Investigators. Cooking with liquefied petroleum gas or biomass and fetal growth outcomes: a multi-country randomised controlled trial. *Lancet Glob Health*. 2024 May;12(5):e815-e825. doi: 10.1016/S2214-109X(24)00033-0. Erratum in: *Lancet Glob Health*. 2024 Jul;12(7):e1093. doi: 10.1016/S2214-109X(24)00223-7. PMID: 38614630; PMCID: PMC11027158.
6. **Ramakrishnan U**, *Wimalasena ST, Young MF, Khuong LQ, *Tran LM, Hoffman DJ, Martorell R, Nguyen PH. Preconception Micronutrient Supplementation Affects Maternal BMI and Body Composition Postpartum: A Randomized Controlled Trial in Vietnam. *J Nutr*. 2024 Apr;154(4):1440-1448. doi: 10.1016/j.tjnut.2024.02.024. Epub 2024 Feb 26. PMID: 38417549.
7. *Sivalogan K, Liang D, Accardi C, Diaz-Artiga A, Hu X, Mollinedo E, **Ramakrishnan U**, Teeny SN, Tran V, Clasen TF, Thompson LM, Sinharoy SS. Human Milk Composition Is Associated with

Maternal Body Mass Index in a Cross- Sectional, Untargeted Metabolomics Analysis of Human Milk from Guatemalan Mothers. *Curr Dev Nutr.* 2024 Apr 10;8(5):102144. doi: 10.1016/j.cdnut.2024.102144. PMID: 38726027; PMCID: PMC11079463

8. *Nguyen PT, Nguyen PH, *Tran LM, Khuong LQ, Van Nguyen S, Young MF, DiGirolamo A, **Ramakrishnan U**. The Relationship of Preterm and Small for Gestational Age with Child Cognition During School-Age Years. *J Nutr.* 2024 Jun 25; S0022-3166(24)00351-1. doi: 10.1016/j.tjnut.2024.06.012. Epub ahead of print. PMID: 38936548.
9. *Wimalasena ST, Ramírez Silva CI, Gonzalez Casanova I, Rivera JA, Sun YV, Stein AD, Ferranti EP, Alvarez JA, Demmelmair H, Koletzko B, **Ramakrishnan U**. Maternal and Offspring Fatty Acid Desaturase Variants, Prenatal DHA Supplementation, and Dietary n-6:n-3 Fatty Acid Ratio in Relation to Cardiometabolic Health in Mexican Children. *J Nutr.* 2024 May;154(5):1540-1548. doi: 10.1016/j.tjnut.2024.03.004. Epub 2024 Mar 6. PMID: 38453026.
10. *Nguyen PT, Nguyen PH, *Tran LM, Khuong LQ, Nguyen SV, Young MF, **Ramakrishnan U**. Growth patterns of preterm and small for gestational age children during the first 10 years of life. *Front Nutr.* 2024 Feb 26;11:1348225. doi: 10.3389/fnut.2024.1348225. PMID: 38468696; PMCID: PMC10925699.
11. *Pfluger BA, Giunta A, Calvimontes DM, Lamb MM, Delgado-Zapata R, **Ramakrishnan U**, Ryan EP. Pilot Study of Heat-Stabilized Rice Bran Acceptability in Households of Rural Southwest Guatemala and Estimates of Fiber, Protein, and Micro-Nutrient Intakes among Mothers and Children. *Nutrients.* 2024 Feb 5;16(3):460. doi: 10.3390/nu16030460. PMID: 38337744; PMCID: PMC10856929.
12. Cetin I, Carlson SE, Burden C, da Fonseca EB, di Renzo GC, Hadjipanayis A, Harris WS, Kumar KR, Olsen SF, Mader S, McAuliffe FM, Muhlhausler B, Oken E, Poon LC, Poston L, **Ramakrishnan U**, Roehr CC, Savona-Ventura C, Smuts CM, Sotiriadis A, Su KP, Tribe RM, Vannice G, Koletzko B; Clinical Practice Guideline on behalf of Asia Pacific Health Association (Pediatric-Neonatology Branch), Child Health Foundation (Stiftung Kindergesundheit), European Academy of Paediatrics, European Board & College of Obstetrics and Gynaecology, European Foundation for the Care of Newborn Infants, European Society for Paediatric Research, and International Society for Developmental Origins of Health and Disease. Omega-3 fatty acid supply in pregnancy for risk reduction of preterm and early preterm birth. *Am J Obstet Gynecol MFM.* 2024 Feb;6(2):101251. doi: 10.1016/j.ajogmf.2023.101251. Epub 2023 Dec 7. PMID: 38070679.
13. Checkley W, Thompson LM, Sinharoy SS, Hossen S, Moulton LH, Chang HH, Waller L, Steenland K, Rosa G, Mukeshimana A, Ndagijimana F, McCracken JP, Díaz-Artiga A, Balakrishnan K, Garg SS, Thangavel G, Aravindalochanan V, Hartinger SM, Chiang M, Kirby MA, Papageorghiou AT, **Ramakrishnan U**, Williams KN, Nicolaou L, Johnson M, Pillarisetti A, Rosenthal J, Underhill LJ, Wang J, Jabbarzadeh S, Chen Y, Dávila-Román VG, Naeher LP, McCollum ED, Peel JL, Clasen TF; HAPIN Investigators. Effects of Cooking with Liquefied Petroleum Gas or Biomass on Stunting in Infants. *N Engl J Med.* 2024 Jan 4;390(1):44-54. doi: 10.1056/NEJMoa2302687. PMID: 38169489.
14. *Wimalasena ST, Ramírez-Silva CI, Gonzalez Casanova I, Stein AD, Sun YV, Rivera JA, Demmelmair H, Koletzko B, **Ramakrishnan U**. Effects of prenatal docosahexaenoic acid supplementation on offspring cardiometabolic health at 11 years differs by maternal single nucleotide polymorphism rs174602: follow-up of a randomized controlled trial in Mexico. *Am J Clin Nutr.* 2023 Dec; 118(6):1123-1132. doi:10.1016/j.ajcnut.2023.10.005. Epub 2023 Oct 14. PMID: 37839707; PMCID: PMC10797513.

15. Bookhart LH*, Anstey EH, Kramer MR, Perrine CG, **Ramakrishnan U**, Young MF. A dose-response relationship found between the Ten Steps to Successful Breastfeeding indicators and in-hospital exclusive breastfeeding in US hospitals. *Birth*. **2023** Dec 50(4):916-922. doi: 10.1111/birt.12742. Epub 2023, July 12. PMID: 37435951.
16. Gupta PM*, Madewell ZJ, Gannon BM, Grahn M, Akelo V, Onyango D, Mahtab S, Madhi SA, Giri J, Blau DM, **Ramakrishnan U**, Stein AD, Whitney CG, Young MF, Tanumihardjo SA, Suchdev PS. Hepatic Vitamin A Concentrations and Association with Infectious Causes of Child Death. *J Pediatr*. 2023 Nov 4;265:113816.
17. *Duong C, Young MF, Nguyen PH, *Tran L, Patel S, **Ramakrishnan U**. Temporal Dietary Diversity Patterns Are Associated with Linear Growth but Not Ponderal Growth in Young Children in Rural Vietnam. *J Nutr*. 2023 Oct;153(10):3083-3091. doi: 10.1016/j.tjnut.2023.06.030. Epub 2023 Jun 25. PMID: 37364684.
18. *Bookhart LH, Anstey EH, Jamieson DJ, Kramer MR, Perrine CG, **Ramakrishnan U**, Worrell N, Young MF. Factors Associated with In-Hospital Exclusive Breastfeeding Among a Racially and Ethnically Diverse Patient Population. *Breastfeed Med*. 2023 Oct;18(10):751-758. doi: 10.1089/bfm.2023.0115. PMID: 37856663; PMCID: PMC11019771.
19. *Duong C, Patel S, Nguyen-Viet H, Chea R, Dang S, Tum S, **Ramakrishnan U**, Young MF. Access to food markets, household wealth and child nutrition in rural Cambodia: Findings from nationally representative data. *PLoS One*. 2023 Oct 18;18(10):e0292618. doi: 10.1371/journal.pone.0292618. PMID: 37851642; PMCID: PMC10584123.
20. Khandelwal S, Kondal D, Gupta R, Chaudhry M, Dutta S, Ramakrishnan L, Patil K, Swamy MK, Prabhakaran D, Tandon N, **Ramakrishnan U**, Stein AD. Docosahexaenoic Acid Supplementation in Lactating Women Increases Breast Milk and Erythrocyte Membrane Docosahexaenoic Acid Concentrations and Alters Infant n-6:n-3 Fatty Acid Ratio. *Curr Dev Nutr*. 2023 Sep 29;7(10):102010. doi: 10.1016/j.cdnut.2023.102010. PMID: 37877035; PMCID: PMC10590723.
21. Wimalasena ST*, Ramirez Silva CI, Sun YV, Stein AD, Rivera JA, **Ramakrishnan U**. Clustering of cardiometabolic risk factors in Mexican pre-adolescents. *Diabetes Res Clin Pract*. 2023 Aug; 202:110818. doi: 10.1016/j.diabres.2023.110818 Epub **2023** Jul 7. PMID: 37422166
22. Perumal N, Wang D, Darling AM, Liu E, Wang M, Ahmed T, Christian P, Dewey KG, Kac G, Kennedy SH, Subramoney V, Briggs B, Fawzi WW; **GWG Pooling Project Consortium**. Suboptimal gestational weight gain and neonatal outcomes in low and middle income countries: individual participant data meta-analysis. *BMJ*. 2023 Sep 21;382:e072249. doi: 10.1136/bmj-2022-072249. PMID: 37734757; PMCID: PMC10512803.
23. *Schoen MS, Boland KM, Christ SE, Cui X, Ramakrishnan U, Ziegler TR, Alvarez JA, Singh RH. Total choline intake and working memory performance in adults with phenylketonuria. *Orphanet J Rare Dis*. 2023 Jul 29;18(1):222. doi:10.1186/s13023-023-02842-y. PMID: 37516884; PMCID: PMC10386684.
24. Darling AM, Wang D, Perumal N, Liu E, Wang M, Ahmed T, Christian P, Dewey KG, Kac G, Kennedy SH, Subramoney V, Briggs B, Fawzi WW; members of the **GWG Pooling Project Consortium**. Risk factors for inadequate and excessive gestational weight gain in 25 low- and middle-income countries: An individual-level participant meta-analysis. *PLoS Med*. 2023 Jul

- 24;20(7):e1004236. doi: 10.1371/journal.pmed.1004236. PMID: 37486938; PMCID: PMC10406332.
25. Kennedy EM*, Hermetz K, Burt A, Pei D, Koestler DC, Hao K, Chen J, Gilbert-Diamond D, **Ramakrishnan U**, Karagas MR, Marsit CJ. Placental microRNAs relate to early childhood growth trajectories. *Pediatr Res.* **2023** Jul;94(1):341-348. doi: 10.1038/s41390-022-02386-0. Epub 2022 Nov 15. PMID: 36380070; PMCID: PMC10183479.
26. Jenkins M, Jefferds MED, Aburto NJ, **Ramakrishnan U**, **Martorell R**, **Addo OY**. What Do United States Adolescents Eat? Food Group Consumption Patterns and Dietary Diversity from a Decade of Nationally Representative Data. *Curr Dev Nutr.* 2023 Jun 29;7(8):101968. Doi 10.1016/j.cdnut.2023.101968. PMID: 37529118; PMCID: PMC10388726.1.
27. Duong C*, Young MF, Nguyen PH, Tran L, Patel S, **Ramakrishnan U**. Temporal Dietary Diversity Patterns Are Associated with Linear Growth but Not Ponderal Growth in Young Children in Rural Vietnam. *J Nutr.* **2023** Jun 25:S0022-3166(23)72435-8. doi: 10.1016/j.tjnut.2023.06.030. Epub ahead of print. PMID: 37364684.
28. Roshania RP*, Webb-Girard A, Das A, Giri R, Mala GS, Srikantiah S, Young MF, Mahapatra T, **Ramakrishnan U**. Food Environments, Food Security, and Household Food Availability of Circular Migrant Families: A Mixed-Methods Study Among Brick Kiln Laborers in Bihar, India. *Food Nutr Bull.* **2023** Jun;44(2):88-99. doi: 10.1177/03795721231152057. Epub 2023 Feb 16. PMID: 36797714.
29. Balakrishnan K, Steenland K, Clasen T, Chang H, Johnson M, Pillarisetti A, Ye W, Naeher LP, Diaz-Artiga A, McCracken JP, Thompson LM, Rosa G, Kirby MA, Thangavel G, Sambandam S, Mukhopadhyay K, Puttaswamy N, Aravindalochanan V, Garg S, Ndagijimana F, Hartinger S, Underhill LJ, Kearns KA, Campbell D, Kremer J, Waller L, Jabbarzadeh S, Wang J, Chen Y, Rosenthal J, Quinn A, Papageorghiou AT, **Ramakrishnan U**, Howards PP, Checkley W, Peel JL; HAPIN Investigators. Exposure-response relationships for personal exposure to fine particulate matter (PM_{2.5}), carbon monoxide, and black carbon and birthweight: an observational analysis of the multicountry Household Air Pollution Intervention Network (HAPIN) trial. *Lancet Planet Health.* **2023** May;7(5):e387-e396. doi: 10.1016/S2542-5196(23)00052-9. PMID: 37164515; PMCID: PMC10186177.
30. Young MF, Nguyen PH, Tran LM*, Khuong LQ, Hendrix S, Martorell R, **Ramakrishnan U**. Maternal preconception BMI and gestational weight gain are associated with weight retention and maternal and child body fat at 6-7 years postpartum in the PRECONCEPT cohort. *Front Nutr.* **2023** May 26;10:1114815. doi: 10.3389/fnut.2023.1114815. PMID: 37305082; PMCID: PMC10254082.
31. Nasrin D, Liang Y, Verani JR, Powell H, Sow SO, Omoro R, Hossain MJ, Doh S, Zaman SMA, Jones JCM, Awuor AO, Kasumba IN, Tennant SM, **Ramakrishnan U**, Kotloff KL. Stunting Following Moderate-to-Severe Diarrhea Among Children Aged <5 Years in Africa Before and After Rotavirus Vaccine Introduction: A Comparison of the Global Enteric Multicenter Study and the Vaccine Impact on Diarrhea in Africa (VIDA) Study. *Clin Infect Dis.* **2023** Apr 19;76(76 Suppl1):S49-S57. doi: 10.1093/cid/ciac948. PMID: 37074437; PMCID: PMC10116564.
32. Young MF, Nguyen P, Tran LM*, Khuong LQ, Martorell R, **Ramakrishnan U**. Long-Term Association Between Maternal Preconception Hemoglobin Concentration, Anemia, and Child Health and Development in Vietnam. *J Nutr.* **2023** May;153(5):1597-1606. doi: 10.1016/j.tjnut.2023.03.015. Epub 2023 Mar 15. PMID: 36925072.

33. Hunter PJ, Awoyemi T, Ayede AI, Chico RM, David AL, Dewey KG, Duggan CP, Gravett M, Prendergast AJ, **Ramakrishnan U**, Ashorn P, Klein N; Lancet Small Vulnerable Newborn Steering Committee. Biological and pathological mechanisms leading to the birth of a small vulnerable newborn. *Lancet*. **2023** May 20;401(10389):1720-1732. doi: 10.1016/S0140-6736(23)00573-1. Epub 2023 May 8. PMID: 37167990.
34. Young MF, Faerber EC, Mehta RV, Ranjan S, Shetty SA, **Ramakrishnan U**, Rangiah K, Bose B, Devi S, Dwarkanath P, Kurpad AV, Taneja S, Martorell R. Maternal nutritional status and milk volume and composition in India: an observational study. *Am J Clin Nutr*. **2023** Apr;117(4):830-837. doi: 10.1016/j.ajcnut.2023.02.002. Epub 2023 Feb 10. PMID: 36773786; PMCID: PMC10273082.
35. Nasrin D, Liang Y, Powell H, Casanova IG, Sow SO, Hossain MJ, Omore R, Sanogo D, Tamboura B, Zaman SMA, Antonio M, Jones JCM, Awuor AO, Kasumba IN, Ochieng JB, Badji H, Verani JR, Widdowson MA, Roose A, Jamka LP, Tennant SM, **Ramakrishnan U**, Kotloff KL. Moderate-to-Severe Diarrhea and Stunting Among Children Younger Than 5 Years: Findings From the Vaccine Impact on Diarrhea in Africa (VIDA) Study. *Clin Infect Dis*. **2023** Apr 19;76(76 Suppl1):S41-S48. doi: 10.1093/cid/ciac945. PMID: 37074430; PMCID: PMC10116556.
36. Young MF, Nguyen P, Tran LM*, Khuong LQ, Tandon S*, Martorell R, **Ramakrishnan U**. Maternal hemoglobin concentrations across pregnancy and child health and development from birth through 6-7 years. *Front Nutr*. **2023** Feb 16;10:1114101. doi: 10.3389/fnut.2023.1114101. PMID: 36875831; PMCID: PMC9978095
37. Tran LM*, Nguyen PH, Young MF, **Ramakrishnan U**, Alderman H. Home environment and nutritional status mitigate the wealth gap in child development: a longitudinal study in Vietnam. *BMC Public Health*. **2023** Feb 8;23(1):286. doi: 10.1186/s12889-023-15156-2. PMID: 36755279; PMCID: PMC9906900.
38. Duong C*, Jenkins M*, Pyo E, Nguyen PH, Huynh T, Nguyen-Viet H, Young MF, **Ramakrishnan U**. Understanding maternal food choice for preschool children across urban-rural settings in Vietnam. *Matern Child Nutr*. **2023** Jan;19(1):e13435. doi: 10.1111/mcn.13435. **Epub 2022** Nov 8. PMID: 36346156; PMCID: PMC9749606.
39. Liu E, Wang D, Darling AM, Perumal N, Wang M, Ahmed T, Christian P, Dewey KG, Kac G, Kennedy S, Subramoney V, Briggs B, Fawzi WW; members of the GWG Pooling Project Consortium. Effects of prenatal nutritional supplements on gestational weight gain in low- and middle-income countries: a meta-analysis of individual participant data. *Am J Clin Nutr*. 2022 Dec 19;116(6):1864-1876. doi: 10.1093/ajcn/nqac259. PMID: 36130877
40. Clasen TF, Chang HH, Thompson LM, Kirby MA, Balakrishnan K, Díaz-Artiga A, McCracken JP, Rosa G, Steenland K, Younger A, Aravindalochanan V, Barr DB, Castañaza A, Chen Y, Chiang M, Clark ML, Garg S, Hartinger S, Jabbarzadeh S, Johnson MA, Kim DY, Lovvorn AE, McCollum ED, Monroy L, Moulton LH, Mukeshimana A, Mukhopadhyay K, Naehar LP, Ndagijimana F, Papageorghiou A, Piedrahita R, Pillarisetti A, Puttaswamy N, Quinn A, **Ramakrishnan U**, Sambandam S, Sinharoy SS, Thangavel G, Underhill LJ, Waller LA, Wang J, Williams KN, Rosenthal JP, Checkley W, Peel JL; HAPIN Investigators. Liquefied Petroleum Gas or Biomass for Cooking and Effects on Birth Weight. *N Engl J Med*. **2022** Nov 10;387(19):1735-1746. doi: 10.1056/NEJMoa2206734. Epub 2022 Oct 10. PMID: 36214599; PMCID: PMC9710426.
41. **Ramakrishnan U**. Focusing on Maternal Nutrition to Improve the Health and Well-Being of Pregnant Women in the United States. *Am J Public Health*. **2022** Oct;112(S8):S763-S765. doi:

10.2105/AJPH.2022.307081. PMID: 36288517; PMCID: PMC9612182

42. Schoen MS*, **Ramakrishnan U**, Alvarez JA, Ziegler TR, Cui X, Singh RH. Characterization of Choline Nutriture among Adults and Children with Phenylketonuria. *Nutrients*. **2022** Sep 29;14(19):4056. doi: 10.3390/nu14194056. PMID: 36235708; PMCID: PMC9572308.
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B. Book chapters

1. Young MF, Neufeld LM, Hendrix S*, **Ramakrishnan U**. Micronutrient supplementation: programmatic issues. Encyclopedia of Human Nutrition, Fourth Edition Reference Module in Food Science: Elsevier; **2023**. ISBN 9780081005965, <https://doi.org/10.1016/B978-0-12-821848-8.00126-8>.
2. Young MF, **Ramakrishnan U**. Pregnancy: Nutrient Requirements. Encyclopedia of Human Nutrition, Fourth Edition. Reference Module in Food Science, Elsevier, **2023** ISBN 9780081005965, <https://doi.org/10.1016/B978-0-12-821848-8.00086-X>
3. Young MF, **Ramakrishnan U**. Pregnancy: Weight Gain. Encyclopedia of Human Nutrition, Fourth Edition. Reference Module in Food Science, Elsevier, **2023**. ISBN 9780081005965, <https://doi.org/10.1016/B978-0-12-821848-8.00087-1>.
4. **Ramakrishnan U**, Gonzales-Casanova. Nutritional Epidemiology for Developing Countries. In: Public Health Nutrition in Developing Countries. Ed: Vir, S. Cambridge UK: Woodhead Publishing Ltd., 2nd Edition, **2021**.
2. **Ramakrishnan U**, Girard-Webb A. Improving Childrens Diets: Approaches and Progress. Nestle Nutr Inst Workshop Ser. **2020**;93:25-38. doi: 10.1159/000503354. Epub 2020 Jan 28. Review. PubMed PMID: 31991431.
3. **Ramakrishnan, U**. Nutrition Education during the Preconception Period, Nestle Nutr Inst Workshop Ser. 2019;92:19-30. doi: 10.1159/000501659. Epub 2019 Nov 28. PubMed PMID: 31779018.
4. Wendt A*, **Ramakrishnan U**. Chapter 12.2: Inter-pregnancy intervals and birth spacing. In “The Biology behind the First 1000 days of Life” Edited by Karakochuk C, Kraemer K, Green T. Taylor and Francis Press, **2018**, 539-456.
5. Young MF, **Ramakrishnan U**. Chapter 10: Iron. In “Nutrition and Health in a Developing World” Edited by De Pee S, Taren D, and Bloem MW, Human Press, Third Edition, **2017**; 235-264.
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8. Young MF, **Ramakrishnan U**. Adolescent girls and women’s nutritional status in India: A critical review of current understanding, gaps and challenges. India Health Report: Nutrition 2015. Public Health Foundation of India, New Delhi and International Food Policy Research Institute (IFPRI) **2015**.
9. **Ramakrishnan U**, Casanova IG*. Nutritional Epidemiology for Developing Countries. In: Public Health Nutrition in Developing Countries. Ed: Vir, S. Cambridge UK: Woodhead Publishing Ltd., **2011**.

10. **Ramakrishnan U**, Imhoff-Kunsch B*. Anemia and Iron Deficiency in Developing Countries. In: Handbook of Nutrition and Pregnancy, Nutrition and Health. Eds: LammiKeefe CJ, Couch SC, Philipson EH: Humana Press, **2008**; 337-354.
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13. Neufeld LM, **Ramakrishnan U**. Specific Strategies to Address Micronutrient Deficiencies in the Young Child: Targeted Fortification In: Pettifor JM and Zlotkin S. Eds. Micronutrient Deficiencies during the weaning period and the first years of life. Nestlé Nutrition Workshops Series: Pediatric Program, Nestec Ltd, Karger S, Switzerland, **2004**, Vol. 54.213-232.
14. **Ramakrishnan U**, Webb A*, Ologoudou K*. Infections, immunity and Vitamins. In: Handbook on Nutrition and Immunity Edited by Gershwin D and Nestel P. Humana Press **2004**; 93-115.
15. **Ramakrishnan U**. Functional consequences of Nutritional Anemia During Pregnancy and Early Childhood. In: Nutritional Anemias. Ed: Ramakrishnan U. Boca Raton, FL, CRC Press. **2001**; 43-68.
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19. Rivera J, Flores M, Martorell R, **Ramakrishnan U**, Melgar P. Generational Effects of Supplementary Feeding During Early Childhood. In: F. Battaglia et al (eds). V International Workshop “Maternal and extrauterine nutritional factors. Their influence on fetal and infant growth.” Universidad de Salamanca, Spain. Ediciones Ergon:Madrid (Spain), **1996**, 197-204.

C. Books, Monographs and Proceedings

1. **Ramakrishnan U**, Hurst S*, Parvanta I. Evaluation of anthropometric Equipment. Department of Global Health, Rollins School of Public Health, Emory University and the Division of Nutrition and Physical Activity, Centers for Disease Control and Prevention, Atlanta, GA, **2012**.
2. Smith LC, **Ramakrishnan U**, Ndiaye A, Haddad L, Martorell R. The Importance of Women’s Status for Child Nutrition in Developing Countries. Research Report 131, International Food Policy Research Institute, Washington DC and the Department of International Health, Emory University, **2003**.
3. Sommer A, Davidson FR, **Ramakrishnan U**, Darnton-Hill I. (eds). 25 Years of Progress in Controlling Vitamin A Deficiency: Looking to the Future. Proceedings of the XX International Vitamin A Consultative Group Meeting. J Nutr, Supplement 132(9S), **2002**.
4. **Ramakrishnan U**. Editor: Nutritional Anemias. Boca Raton, FL, CRC Press. **2001**.

D. Reports and Theses

1. **Ramakrishnan U**, Ross J. The role of nutrition goals and targets; Point / Counterpoint: Guilty of promoting vertical thinking and silver bullet, technical fixes? / Useful tools of advocacy in the 1990s and beyond. ACC/SCN News, July **2001**.
2. **Ramakrishnan U**, Matute J, Smith B, Calderon M, Griffiths M. The Findings of the AIN Program Baseline Survey: Health and Nutritional Status of Young Children in Honduras, 1998. Technical Report submitted to BASICS, Dec **1998**.
3. Schroeder DG, **Ramakrishnan U**. Micronutrients and linear growth, ed. Pablo-Penas J. Dieta y Salud, Newsletter of the Kellogs Company, Mexico, **1998**.
4. **Ramakrishnan U**. Interpretation of Current Trends in Malnutrition. A consultancy report to ACC/SCN, WHO, Geneva. August **1996**.
5. **Ramakrishnan U**. Effect of vitamin A supplementation on growth and morbidity among preschool children in South India. Doctoral Dissertation, Cornell University, May 1993.
6. **Ramakrishnan U**. Discussion of topics for the proposed workshop on care and nutrition of young children. Draft prepared for UNICEF, NY Dec **1993**.
7. Project Report on Evaluation of the Nutrition Component of ICDS. National Institute of Public Cooperation and Child Development, New Delhi, India, June **1988**.
8. **Ramakrishnan U**. Effect of hot and cold foods on nitrogen balance, ph, acidity and certain metabolic constituents in urine of nine college women. M.S. Thesis, University of Madras, May **1985**.

**current or former mentees*

INVITED SEMINARS AND CONFERENCE PRESENTATIONS

Conference Session Chair

- 2024 Insert NNI workshop details
- 2019 Co-Chair for Symposium on “*Sustainable Development Goals and the Nutrition Research Community*” Annual Meeting of the American Society of Nutrition in Baltimore, MD, June 2019. The Symposium proposal was developed by Drs Ramakrishnan and Neufeld and was selected by ASN through a competitive process. It was very well attended.
- 2015 Co-chair for Symposium on “*Do we need preconception nutrition interventions to improve birth outcomes beyond the prevention of neural tube defects? Current knowledge and future directions*” that was held at the Annual Meeting of the American Society of Nutrition in Boston, MA April 2015. The Symposium proposal was developed by Drs Ramakrishnan and Janet King and was selected by ASN through a competitive process. It was very well attended. The proceedings have been submitted for publication as a special supplement of the Journal of Nutrition.
- 2010 Co-chair for Symposium on “*Multiple micronutrients: Evidence to Programs*” that was held at the Annual Meeting of the American Society of Nutrition in Anaheim CA, April 2010. The Symposium proposal was developed by Drs Ramakrishnan and Lynnette Neufeld (Micronutrient Initiative) and was selected by ASN through a competitive process. It was very well attended. All presentations were published as a special supplement of the Journal of Nutrition
- 2008 Co-Chair, Symposium on “*Maternal and child mental health: Role of Nutrition,*” for the American Society for Nutrition program at Experimental Biology, San Diego, CA, April 2008. The proceedings were published as a special supplement of the American Journal of Clinical Nutrition.
- 2007 Co-Chair, International Nutrition Mini-symposium ,Annual meeting of the American Society of Nutrition, April 2007
- 2004 Co-chair, Mini-Symposium on International Nutrition, Annual Meeting of the American Society of Nutritional Sciences, Washington DC, April 2004
- 2003 Co-chair, Mini-Symposium on International Nutrition Topics, sponsored by the Society for International Nutrition, American Society of Nutritional Sciences, Experimental Biology Meeting, April 2003
- 1997 Co-chair, Mini-Symposium on Micronutrients, sponsored by the Society for International Nutrition, American Society of Nutritional Sciences, Experimental Biology Meeting, April 1997
- 1993-1994 Organizing Committee Coordinator, Cornell-UNICEF Colloquium on Care and Nutrition for the Young Child, Cornell University, Ithaca, NY, co-editor for a special supplement containing 6 publications based on all presentations.

Invited Oral Presentations

1. **Ramakrishnan U.** “*Role of Preconception Nutrition in improving Maternal, Neonatal and Child Health (MNCH) Outcome*”. Invited Presentation at the Public Health Foundation of India, Bengaluru, India, **July 9-10, 2024.**
2. **Ramakrishnan U.** “*Phase 2 - EDGE Survey Results*” Morehouse School of Medicine. Morehouse University, Atlanta, GA, **April 24, 2024.**
3. **Ramakrishnan U.** “*Does one size fit all, One size does not fit all ?*” XX Congreso LatinoAmericano de Nutricion , SLAN 2023, Cuenca, Ecuador, **22-26 October 2023.**
4. **Ramakrishnan U.** *Keynote Presentation: Established Evidence of Nutrition/Diet on Multigenerational Effects.* NICHD /NIH Workshop on Multigenerational Effects of Nutrition on Health and Disease, NICHD, Bethesda MD. **July 12-13, 2023.**
5. **Ramakrishnan U.** “*Importance of Maternal Nutrition for Child Development* ” at the International Web Conference on Food Science and Technology for Better Nutrition – Way to the Future” Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore 641 043, **Jan 2021.**
6. **Ramakrishnan U.** “*The Importance of Maternal Nutrition: Evidence from the Guatemala Study*” as part of the Third International Webinar on Maternal Health and Nutrition hosted by the School of Public Health, Hasanuddin University, Makassar, Indonesia, **Nov 2020.**
7. **Ramakrishnan U.** “*Maternal Docosa Hexanoic Acid Supplementation and Offspring Neurodevelopment in India.*” Public Health Foundation of India Workshop **Dec 2019.**
8. **Ramakrishnan U.** Impact of nutrition on the next generation – The Oriente Study. INCAP 70th Anniversary Celebrations, Guatemala City, Guatemala, **Sept 2019.**
9. **Ramakrishnan U.** Global research priorities in maternal and child health and nutrition. Sri Ramachandra Insitute of Higher Education and Research, Chennai, India, **June 2019.**
10. **Ramakrishnan, U.** Micronutrient requirements across gestation. Nutrition in Pregnancy Conference , Institute, Oregon Health & Science University, Washington, DC, **May 2019.**
11. **Ramakrishnan U,** Girard-Webb A. Improving Childrens Diets: Approaches and Progress. Nestlé Nutrition Institute Workshop #93, Kolkatta, India, March **2019.**
12. **Ramakrishnan U.** Scientific Evidence for DHA and Cognitive Development, SLAN Congress, Guadalajara, Nov **2018.**
13. **Ramakrishnan U.** Nutrition Education during the Preconception Period. Nestlé Nutrition Institute Workshop #92, Lausanne, Switzerland, September **2018.**
14. **Ramakrishnan U.** Maternal and child health and nutrition issues in India. Public Nutrition Research Methods and Policy Course, 20-23 February **2018,** Public Health Foundation of India,

New Delhi, India.

15. **Ramakrishnan U.** Young MF. Current experiences delivering micronutrient interventions to adolescent girls: lessons learned and gaps. Micronutrient Forum Meeting, Cancun, Mexico, Oct **2016**
16. **Ramakrishnan, U.** “*Technical meeting on the diet and eating practices of adolescent girls and women of reproductive age.*” SPRING, Washington DC, USA. March **2015**.
17. **Ramakrishnan, U.** “*Effect of women’s nutrition before and during early pregnancy on maternal and infant outcome: a systematic review*” 2nd International Congress Hidden Hunger - Hidden Hunger, Childhood Development and Long-term Prospects for Society and Economy. University of Hohenheim, Stuttgart, Germany. March **2015**.
18. **Ramakrishnan, U.** “*Multiple micronutrient supplementation for women in pregnancy: Current Controversies.*” WHO, Geneva, Switzerland. June **2014**
19. **Ramakrishnan, U.** “Food and Nutrition Security – Putting Children First.” Atlanta Summit on Global Health and Hunger. JW Marriott, Buckhead, Atlanta. May **2013**.
20. **Ramakrishnan U,** Imhoff-Kunsch, B and Martorell R. “*Maternal Nutrition interventions to improve maternal, newborn, and child health outcomes.*” Nestlé Nutrition Institute Workshop, Muscat, Sultanate of Oman, March **2013**.
21. **Ramakrishnan U,** Grant FK*, Imdad A, Bhutta ZA, and Martorell R. “*Multiple Micronutrient Interventions during Pregnancy and Intra-uterine Growth,*” Nestlé Nutrition Workshop, Goa, India, March **2012**.
22. **Ramakrishnan U.** “*Fatty acid status and maternal mental health.*” Presentation for conference on fatty acids and maternal and child health, held in Napa Valley, Sept **2010**
23. **Ramakrishnan, U.** “*Biology of Obesity,*” Presentation at the National Medical Association Meeting, Atlanta GA, July **2008**
24. **Ramakrishnan U.** CDC Seminar Series, Atlanta, Georgia. Presentation on “*Effects of Micronutrients on growth of children under 5 yrs of age: Meta-analyses of single and multiple nutrient interventions,*” Sept **2008**
25. **Ramakrishnan U.** “*Role of maternal DHA intake and pregnancy outcome*” Presentation at the 55th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, San Diego, May 8, **2007**. CME presentation sponsored by American College of Nutrition
26. **Ramakrishnan U.** “*Does Weekly Iron-Folate Supplementation (WIFS) improve Iron status in Women of Reproductive Age (WRA)?*” Presentation at WHO Workshop on WIFS for WRA in Manila, Philippines, April 25-27 **2007**
27. **Ramakrishnan U.** “*Maternal Health and Well-Being: A Cornerstone of the Millenium Development Goals.*” United Nations Association of the United States of American and the Business Council for the United Nations held in Atlanta, Georgia, October 15, **2006**
28. Participated in a WHO/SCN/UNICEF meeting of principal investigators involved in the trials of multiple micronutrient supplementation during pregnancy held in Geneva, Switzerland, Jun **2006**

29. **Ramakrishnan, U.** “*Maternal, infant and child multiple micronutrient supplementation: Different combinations, populations and outcomes?*” Presentation for Innocenti Conference on Micronutrient and Health sponsored by World Health Organization (WHO), the United Nations Children’s Fund (UNICEF), and International Vitamin A Consultative Group (IVACG) held in Florence, Italy, from April 17-20, **2005**
30. **Ramakrishnan, U.** “*Intergenerational impact of maternal malnutrition.*” Presentation for Regional Ministerial Consultation on Maternal and Child Nutrition sponsored by the World Food Program and Department of Women and Child Development, Government of India, held in New Delhi, September 15-18, **2004**
31. **Ramakrishnan U.** “*Role of biofortification in the prevention and control of micronutrient malnutrition.*” CIMMYT, Mexico, Sept **2003**
32. Neufeld L, **Ramakrishnan U.** “*Specific Strategies to Address Micronutrient Deficiencies in the Young Child: Targeted Fortification (Lessons Learned from the Developed and Developing World).*” Presentation at the Nestlé Nutrition Workshop Series: Infant Nutrition, vol. 54. San Paulo, Brazil, Oct 26-30, **2003**
33. **Ramakrishnan U,** “*Lifestyle factors and nutrition among South Asians*” at the Festival of India Panel Discussion on Healthy Living: Nutrition and Health for South Asians of All Ages”, sponsored by the South Asian Public Health Association and Network of Indian Professionals, Georgia, Aug **2003**
34. **Ramakrishnan U.** “*Effect of Multiple Micronutrient Supplements During Pregnancy on Birth Outcomes – An intervention trial in Mexico.*” Maternal and Child Nutrition Branch Seminar Presentation at the Division of Nutrition and Physical Activity, CDC, **2002**
35. **Ramakrishnan U.** “*Role of Prenatal Nutrition in Early Childhood Development.*” Presentation at the UNICEF/Government of India “Early Childhood Care – Survival, Growth and Development” Workshop, New Delhi, India, October 3-5, **2000**
36. **Ramakrishnan U.** “*Nutrition and Low Birth Weight.*” Presentation at BASICS, Arlington VA, **2000**
37. **Ramakrishnan U.** “*Prevalence of micronutrient malnutrition worldwide.*” Presentation at “INDO-US Workshop on Health and Nutrition in Women, Infants and Children” held at the National Institute of Nutrition, Hyderabad, India, Feb 10-12, **2000**
38. Martorell R, **Ramakrishnan U.** “*Nutrient supplements and pregnancy outcomes.*” Presentation at Pharmaceuticals, New Jersey, NJ, **2000**
39. **Ramakrishnan U,** Neufeld LM. “*Recent Advances in Nutrition and Intrauterine Growth.*” Presentation at the 47th Nestle Nutrition Workshop, “Nutrition and Growth”, Santiago, Chile, April 2-5, **2000**
40. **Ramakrishnan U,** Rivera J, Gonzales-Cossio T, Martorell R. “*Micronutrients and low birth weight – A review of the literature.*” Presentation at the International Low Birth Weight (LBW) Symposium and Workshop, Dhaka, June 14-17, **1999**
41. **Ramakrishnan U,** Rivera J and Martorell R. “*A critical review of the relationship between*

micronutrient malnutrition and pregnancy outcomes.” Invited speaker at symposium on “*The Path to Maternal and Child Health*”, Washington DC, 5-7 May **1998**

42. Martorell R, **Ramakrishnan U**, Schroeder DG, Melgar P and Neufeld L. “*Intrauterine Growth Retardation, Body Size, Composition and Physical Performance in Adolescence.*” Paper presented at the IDECG/IUNS Workshop on “*Causes and Consequences of Intrauterine Growth Retardation*” at Baton Rouge, Louisiana, Nov 11-15, **1996**

43. **Ramakrishnan U**. “*Conceptual framework for the Cornell-UNICEF Colloquium on Care and Nutrition for the young child.*” Paper presented at the ‘Cornell-UNICEF Colloquium on Care and Nutrition for the young child’ Aurora, NY, 12-15 Oct **1994**

Over 300 Conference Presentations (details available upon request)

SPONSORED RESEARCH

A. Active Grants

Assessing the 5-Year Effects of a 500-day Liquefied Petroleum Gas Cooking Intervention: Continued Follow up of Participants from the Household Air Pollution Intervention Network (HAPIN) trial

Principal Investigator: Thomas Clasen

Agency: NIH Natl Inst of Child Health and Human

Period: 07/01/22 – 06/30/26

Total Cost: \$ 6,877,819

Role on Project: **Co-Investigator**

Objective: The HAPIN trial introduced an LPG stove and fuel intervention among pregnant women in households traditionally relying on biomass, and is assessing the health effects on their newborn child until the child’s first birthday.

B. Completed Grants

VECD Fogarty Global Health Fellows Program

Principal Investigator: Heimburger/Muktar

Agency: D43 - National Institutes of Health

Period: 07/01/17 – 06/30/24

Effort: 1%

Direct Costs: \$ 300,000

Indirect Costs: \$ 24,000

Total Cost: \$ 324,000

Role on Project: **Emory Site PI**

Objective: The VECD Global Health Fellowship Program is a one-year research training program for pre- and post-doctoral candidates from the U.S. and lower-middle-income countries (LMICs). The current administrative supplement examines factors affecting participation of HUGS in Global Health Training Programs

Effects of maternal preconception nutrition on offspring body composition and cognition in adolescence

Principal Investigator: Phuong Nguyen

Agency: Nestle Foundation

Period: 09/01/2022 – 8/31/2024
Effort: (in-kind)
Total Costs: \$0
Role on Project: Co-investigator
Objective: To evaluate the effects of periconception nutrition on early adolescent body size and composition, intellectual functioning and academic achievement by adding a new wave of data collection at ages 10-11y for the children born to mothers who previously participated in a preconceptional nutrition randomized controlled trial (PI: Ramakrishnan) that was conducted in Vietnam (1,599 live births).

Maternal and offspring FADS polymorphisms, dietary LC-PUFAs, and adolescent cardiometabolic health

Principal Investigator: Sonia Tandon
Agency: NIH Natl Inst of Child Health and Human
Period: 09/15/22 - 04/30/24
Total Cost: \$ 201,224
Role on Project: **Mentor**
Objective: The proposed work provides the applicant with in-depth training in nutrigenetics and life course epidemiology and complements the 2020-2030 NIH Nutrition Research Strategic Plan.

Mother-child hemoglobin at preconception and first 1000 days and child development at 6 years

Principal Investigator: **Melissa Young**
Agency: NIH – R03
Period: 07/01/20 – 06/30/23
Effort: 3%
Direct Costs: \$ 2,291,093
Indirect Costs: \$ 479,939
Total Costs: \$ 2,771,032
Role on Project: Co-investigator
Objective: To advancing the current state of knowledge on the effects of maternal and child Hb across the continuum of preconception, pregnancy and early childhood and on child health and development through the age of 6 years.

The role of FADS genotype on prenatal DHA supplementation and child growth (NCE)

Principal Investigator: **Usha Ramakrishnan**
Agency: NIH Natl Inst of Child Health and Human
Period: 04/01/17 - 03/31/21
Effort: 5%
Direct Costs: \$ 100,000
Indirect Costs: \$ 56,000
Total Cost: \$ 156,000
Objective: To assess the role of genetics in modifying the impact of prenatal DHA supplementation on child growth & cognitive development from birth through 5 year using data from a randomized controlled trial in Mexico

Household Air Pollution and Health: a Multi-country LPG Intervention Trial

Principal Investigator: Thomas Clasen
Agency: NIH Natl Inst of Child Health and Human
Period: 09/22/16 – 06/31/21

Effort: 10%
Direct Costs: \$ 26,927,258
Indirect Costs: \$ 3,522,155
Total Cost: \$ 30,449,413
Role on Project: **Co-Investigator**
Objective: This proposal is for a multi-country randomized field intervention trial of LPG among pregnant women and their children.

Rotavirus Impact Studies (CE)

Principal Investigator: **Usha Ramakrishnan (Subcontract to Emory)**
Agency: Bill & Melinda Gates Foundation
Period: 09/01/17 – 12/31/21
Effort: 20%
Direct Costs: \$ 75,148.10
Indirect Costs: \$ 7,515.00
Total Costs: \$ 82,663.10
Objective: The Emory team will work with the VIDA project led by University of Maryland to develop and implement the analysis of nutrition related data.

Pilot testing of an innovative imaging technology for assessing child body composition.

Principal Investigator: Melissa Young
Agency: RSPH Dean's Pilot Grant
Period: 03/01/19 – 02/29/21
Effort: 0% (in-kind, mentor)
Direct Costs: \$ 43,629.00
Indirect Costs: \$ 0.00
Total Costs: \$ 43,620.00
Role on Project: Co-investigator
Objective: To validate a novel method of child body composition assessment (AuthoAnthro 3D) compared to gold standard (DEXA), a hand-held device (multi-frequency bioelectrical impedance analysis, MBIA) and standard child anthropometry in Vietnam.

Impact of Pre-conceptual Micronutrient Supplementation on Child Growth and Development

Principal Investigator: Phuong Nguyen
Agency: Nestle Foundation
Period: 10/1/2018 – 09/30/2020
Effort: 5% (in-kind)
Total Costs: \$100,000
Role on Project: Co-investigator
Objective: The overall aim of this proposal is to evaluate the effects of preconceptional micronutrient supplementation on child growth and development during the preschool years. This is a follow-up of a large randomized controlled trial that was conducted in Vietnam.

Technical Assistance and Research for Indian Nutrition and Agriculture (TARINA)

Principal Investigator: **Usha Ramakrishnan (Subcontract to Emory)**
Agency: Bill & Melinda Gates Foundation
Period: 12/01/15 - 11/30/19
Effort: 20%
Direct Costs: \$ 454,545
Indirect Costs: \$ 45,455

Total Cost: \$ 500,000
Objective: The Emory team will work with the TARINA project led by Cornell University to develop, validate and support integration of validated metrics.

Maternal Nutrition and lactation in India (NCE)

Principal Investigator: Reynaldo Martorell
Agency: National Institutes of Health (PA-11-261)
Period: 09/01/15 – 08/31/19
Effort: 2%
Direct Costs: \$ 291,032
Indirect Costs: \$ 55,776
Total Costs: \$ 346,808
Role on Project: **Co-Investigator**
Objective: To make national recommendations for the improvement of maternal and child health and nutrition outcomes in India and elsewhere.

Women's Empowerment in Agriculture (NCE)

Principal Investigator: Amy Girard
Agency: London School of Hygiene and Tropical Medicine
Period: 09/01/15 – 12/31/18
Effort: 15%
Direct Costs: \$ 323,131
Indirect Costs: \$ 64,354
Total Costs: \$ 387,485
Role on Project: **Co-Investigator**
Objective: To examine the association between women's empowerment and maternal and child nutrition in Tanzania, Kenya and Ethiopia

Technical Support to Bihar: Improving Health, Nutrition Coverage and Outcomes

Principal Investigator: **Usha Ramakrishnan**
Agency: CARE - BMGF
Period: 08/01/17-09/31/18
Effort: 10%
Direct Costs: \$ 99,221
Indirect Costs: \$ 9,922
Total Costs: \$ 109,143
Objective: The Emory team will assist CARE-India on nutrition related projects.

The drivers of diet change and food choice among Tanzanian pastoralists transition (NCE)

Principal Investigator: Amy Girard
Agency: Drivers of Food Choice (University of South Carolina)
Period: 06/01/16 - 06/20/18
Effort: 2%
Direct Costs: \$ 370,748
Indirect Costs: \$ 127,390
Total Cost: \$ 498,138
Role on Project: **Co-Investigator**
Objective: Explore drivers of food choice and consequent nutrition and health along the continuum of pastoralists' livelihood strategies.

Development of an imaging system to measure children's height (length and stature)

Principal Investigator: Reynaldo Martorell
Agency: Body Surface Translators, Inc.

Period: 10/21/15-02/28/17
Effort: 10%
Direct Costs: \$ 360,241
Indirect Costs: \$ 36,024
Total Costs: \$ 396,265
Role on Project: **Co-Investigator**
Objective: The proposed work will produce a robust, low-cost, objective, automated system to extract anthropometric information from children between the ages of 0-60 months, with priority to children 0-24 months.

Nutritional Health and Sciences PhD Program

Principal Investigator: **Usha Ramakrishnan**
Agency: NIH / NIDDK T32
Period: 06/01/2012 – 05/31/18
Effort: 10% in kind
Direct Costs: \$2,111,730
Indirect Costs: \$ 65,520
Total Cost: \$2,177,250
Objective: This is a renewal of a pre-doctoral training grant (T32 - DK00773413) that has supported graduate training by the Nutrition and Health Sciences (NHS) doctoral program at Emory University since 1996. The grant funds pre-doctoral graduate student stipends and supports the research and training environment for graduate students in the NHS program.

Impact of Pre-pregnancy Micronutrient Supplementation on Maternal and Child Outcomes

Principal Investigator: **Usha Ramakrishnan**
Agency: Micronutrient Initiative
Period: 3/21/2011 – 05/31/2017
Effort: 20%
Direct Costs: \$1,659,352
Indirect Costs: \$ 165,936
Total Costs: \$1,825,288
Objective: The overall aim of this proposal is to generate new information to guide policy and programs that are designed to reduce the burden of anemia in women and children and improve maternal and child health outcomes in resource poor settings.

Early exposures and child cognitive development

Principal Investigator: Ines Gonzales
Role: Mentor
Agency: Thrasher Research Fund
Period: 01/01/15 – 06/01/17
Direct Costs: \$ 24,390
Indirect Costs: \$ 1,707
Total Cost: \$ 26,097
Role on Project: **Mentor**
Objective: To assess the relative importance of prenatal exposure to environmental contaminants and the home learning environment on child development trajectories in explaining the known association between SES and child development in an urban setting in Mexico.

Family Health Initiative (FHI) in Bihar, India (NCE)

Principal Investigator: Reynaldo Martorell

Agency: CARE, through a grant from the Bill and Melinda Gates Foundation
Period: 11/16/2010 – 09/30/16
Effort: 15%
Direct Costs: \$1,165,459
Indirect Costs: \$ 116,546
Total Costs: \$1,282,005
Role on Project: **Co-Investigator**
Objective: Bring expertise in the development of nutrition policies, action plans, and guidelines to increase access to nutrition services and essential products.

Influence of maternal nutrition before and during pregnancy on child birth outcomes

Principal Investigator: Melissa Fox Young
Role: Mentor
Agency: Thrasher Research Fund
Period: 02/01/14 – 01/31/16 (NCE to 07/31/16)
Direct Costs: \$ 25,000
Indirect Costs: \$ 1,750
Total Costs: \$ 26,750
Role on Project: **Mentor**
Objective: To inform maternal and child interventions in the first 6 months of life and make national recommendations to nutritional programs in India.

Effect of Prenatal DHA Supplementation on Infant Development

Principal Investigator: **Usha Ramakrishnan**
Agency: National Institutes of Health
Period: 09/15/09 – 8/31/15
Direct Costs: \$1,532,499
Indirect Costs: \$ 440,427
Total Costs: \$1,972,926
Role on Project: Principal Investigator
Objective: This continuation project is a randomized controlled trial to test the efficacy of docosahexanoic acid (DHA) during pregnancy on pregnancy outcomes and infant growth and development. The study will be conducted in Cuernavaca, Mexico in collaboration with the Instituto Nacional de Salud Publica (INSP), Mexico.

Effect of nutrition, immunity, and vaccines on pediatric enteric infections

Principal Investigator: J. Leon
Agency: National Institutes of Health, NIAD
Period: 7/1/2010 – 6/30/2015
Direct Costs: \$568,392
Indirect Costs: \$ 45,472
Total Costs: \$613,864
Role on Project: **Mentor**
Objective: To identify the relationship between rotavirus vaccine efficacy and nutritional status of children through immunological and epidemiological approaches

Prevalence of the polymorphisms (FADS1.2 and 3) that influence LCPUFA synthesis

Principal Investigator: **Usha Ramakrishnan**
Agency: Nutricia Research Foundation
Period: 1/ 1/2011 – 12/ 31/ 2014
Total Costs: \$70,683

Role on Project: Principal Investigator
Objective: The overall aim of this project is to determine the prevalence of recently identified genetic polymorphisms that influence LCPUFA status in a developing country population and understand their effects on early childhood growth and development.

Millennium Promise Awards: NCD Research Training Program

Principal Investigator: K. Venkat Narayan
Agency: NIH / NICHD
Period: 09/15/09-06/30/14
Total Cost: \$ 219,712
Role on Project: **Mentor**
Objective: The major goals of this project are to provide short-term training (four months) at Emory for junior faculty researchers from South Asia and long-term training (two years) for post-doctoral fellows from South Asia in South Asia and at Emory in order to build a critical mass of NCD researchers and incorporate them within integrated NCD research programs in India.

National Children's Study

Principal Investigator: Carolyn Drews-Botsch
Agency: National Institutes of Health
Period: 9/1/2008 – 8/31/2013
Direct Costs: \$258,031
Indirect Costs: \$105,906
Total Costs: \$363,937
Role on Project: **Co-Investigator and site PI for Baldwin County, GA**
Objective: This project is a contract to provide technical expertise and collect nationally representative data in pregnant women and offspring for the National Children's Study in four Georgia Counties

Global Diabetes - MDRE

Principal Investigator: K. Venkat Narayan
Agency: Global Health Institute
Period: 08/09/2007 – 08/08/2013
Total Cost: \$ 160,000
Role on Project: **Mentor**
Objective: The major goals of this project are to evaluate the effectiveness, cost-effectiveness, and sustainability of a community-based diabetes prevention program in Chennai, India using a randomized controlled trial.

Improving maternal, neonatal and child health outcomes through better designed nutrition policies and programs

Principal Investigator: R. Martorell
Agency: Bill & Melinda Gates Foundation (OPPGH5302)
Period: 1/1/2010 – 04/30/2012
Direct Costs: \$1,826,727
Indirect Costs: \$ 179,019
Total Costs: \$2,005,746
Role on Project: **Co-Investigator**
Objective: Promote evidence-based policies and programs to improve birth outcomes in low- and middle-income countries.

Nutritional Health and Sciences PhD Program

Principal Investigator: R. Martorell
Agency: National Institute of Health
Period: 1/20/1997 – 12/31/2011
Direct Costs: \$2,124,290
Indirect Costs: \$ 116,755
Total Costs: \$2,241,045
Role on Project: **Program Director**
Objective: This is a continuation of a pre-doctoral training grant established in 1993 and administered by the Nutrition and Health Sciences (NHS) program of Emory University. The grant funds pre-doctoral graduate student stipends and supports the research and training environment for graduate students in the NHS Ph.D. program.

Partners in Global Health: Emory University and Instituto Nacional de Salud Publica (INSP)

Principal Investigator: R. Martorell
Agency: Global Health Institute, Emory University
Period: 8/1/2008 – 8/31/2011
Total Costs: \$373,151
Role on Project: **Co-Investigator**
Objective: To strengthen existing ties between Emory University and INSP to include more formal mechanisms for both student and faculty collaborative experiences in the areas of research, teaching, and service.

Impact of Vitamin D Supplementation on Host Immunity to *Mycobacterium tuberculosis* and Response to Treatment in the Republic of Georgia: Building Translational Research Capacity

Principal Investigator: T. Ziegler
Agency: Emory Global Health Institute
Period: 5/01/08 - 04/30/11
Total Costs: \$247,803
Role on Project: **Co-Investigator**
Objective: The aims of this project are to 1) conduct a double-blind, randomized, controlled clinical trial on the efficacy of vitamin D3 in patients with pulmonary TB in Tbilisi; 2) examine vitamin D regulation of the antimicrobial peptide LL-37 in human tissues; 3) generate hypotheses on the potential role of LL-37 as a mechanism for anti-mycobacterial effects of vitamin D; 4) evaluate vitamin D nutrition in Georgian TB patients and healthy controls; and 5) determine the effect of vitamin D therapy on serial nutritional status in TB-infected subjects.

Effect of Prenatal DHA Supplements on Infant Growth and Neurodevelopment

Principal Investigator: **Usha Ramakrishnan**
Agency: March of Dimes
Period: 06/01/04 – 05/31/10
Direct Costs: \$222,768
Indirect Costs: \$ 22,277
Total Costs: \$245,045
Objective: This project is a randomized controlled trial to test the efficacy of DHA during pregnancy on pregnancy outcomes and infant growth and development. The study will be conducted in Cuernavaca, Mexico in collaboration with INSP, Mexico.

Effect of Prenatal DHA Supplementation on Infant Development

Principal Investigator: Usha Ramakrishnan
Agency: National Institutes of Health (1 RO1 HD043099-01A2– NICHD)
Period: 04/01/04 – 01/31/10
Direct Costs: \$1,764,547
Indirect Costs: \$ 381,048
Total Costs: \$2,145,595
Objective: This project is a randomized controlled trial to test the efficacy of docosahexanoic acid (DHA) during pregnancy on pregnancy outcomes and infant growth and development. The study will be conducted in Cuernavaca, Mexico in collaboration with the Instituto Nacional de Salud Publica (INSP), Mexico.

Zinc, Mental Health and School Performance in Mexico

Principal Investigator: Ann DiGirolamo
Agency: National Institutes of Health (1 R01 MH067981-01A1)
Period: 06/01/04 – 03/31/10
Direct Costs: \$764,734
Indirect Costs: \$199,968
Total Costs: \$964,702
Role on Project: **Co-investigator**
Objective: The current study will evaluate relationships among zinc, mental health and school performance in school-age children by conducting a randomized double-blinded, placebo-controlled zinc supplementation trial in Guatemala. The central hypothesis is that zinc supplementation will improve the mental health and school performance of children in a population at risk for zinc deficiency and with significant mental health problems.

POWER Lunches to Increase Nutrition Efficacy Among African American Women Employees enrolled in the Grady PRISE Physical Fitness Project

Principal Investigator: C. Hogue
Agency: USDA
Period: 03/01/06 – 02/28/09
Direct Costs: \$366,733
Indirect Costs: \$ 84,405
Total Costs: \$451,178
Role on Project: **Co-Investigator**
Objective: The goal of this study is to develop and disseminate a sustainable approach to long-term nutrition improvement for employed African American women, in conjunction with the PRISE project.

Vitamin and Mineral Interventions and Child Growth

Principal Investigator: Reynaldo Martorell
Agency: Micronutrient Initiative
Period: 03/30/07 – 09/30/07
Direct Costs: \$19,485
Indirect Costs: \$ 2,533
Total Costs: \$22,018
Role on Project: **Co-Investigator**
Objective: Review of research supporting the link between vitamin and mineral nutrition (VM) and growth.

PRISE: Worksite Fitness for African American Women

Principal Investigator: C. Hogue
Agency: Centers for Disease Control
Period: 10/01/04 – 09/30/07
Direct Costs: \$ 896,178
Indirect Costs: \$ 476,586
Total Costs: \$1,372,764
Role on Project: **Co- Investigator**
Objective: The major goal of this study is to study the effects of physical, environmental, and dietary interventions on obese-overweight African American women in the workplace, with the goal of improving health and fitness levels.

The Effects of Caregiving on Child Malnutrition

Principal Investigator: Ann DiGirolamo
Agency: National Institutes of Health
Period: 01/01/01 – 08/31/07
Direct Costs: \$503,149
Indirect Costs: \$ 39,936
Total Costs: \$543,085
Role on Project: **Co-Investigator**
Objective: The major goal of this project is to assess the importance of child care as a cause of child malnutrition in Mexico.

Early Nutrition, Human Capital and Economic Productivity

Principal Investigator: R. Martorell
Agency: National Institutes of Health
Period: 05/01/01 – 04/30/07
Direct Costs: \$1,801,705
Indirect Costs: \$ 286,508
Total Costs: \$2,088,213
Role on Project: **Co-Investigator**
Objective: The major goal of this project is to link child malnutrition to adult human capital and productivity in Guatemalan subjects.

Education and Health Across the Life Course in Guatemala

Principal Investigator: Aryeh D. Stein
Agency: National Institutes of Health
Period: 02/01/04 – 01/31/08
Direct Costs: \$595,300
Indirect Costs: \$202,042
Total Costs: \$797,342
Role on Project: **Co-Investigator**
Objective: To conduct secondary analyses of the INCAP Longitudinal Study data set to estimate the relative importance of endowments, formal schooling, and contextual factors on the development of health status in Guatemala

Regional Training to Building Capacity to Eliminate Micronutrient Deficiencies

Principal Investigator: **Usha Ramakrishnan**
Agency: **ASPH/CDC/ATSDR**
Period: 10/01/02 – 09/30/06
Direct Costs: \$672,220

Indirect Costs: \$266,981
Total Costs: \$939,201
Objective: The major goal of this project was to strengthen regional capacity in the planning, implementation, monitoring and evaluation of national programs to address micronutrient malnutrition. This was done by developing digitally-based training materials related to the implementation of programs to address iodine, iron, and vitamin A deficiencies.

Effects of micronutrient supplements on the growth and development of preschool age children

Principal Investigator: **U. Ramakrishnan**
Agency: Micronutrient Initiative, CIDA, Canada
Period: 04/01/98 – 12/31/03
Direct Costs: \$285,133
Indirect Costs: \$ 32,045
Total Costs: \$317,178
Objective: This study was a randomized double-blind controlled trial that is being conducted in rural Mexico to determine whether the daily consumption of multi-vitamin mineral supplements during early childhood (3 to 24 months of age) compared to only vitamin A and iron improves child growth and development. The study subjects were the infants born to the pregnant women who participated in prenatal intervention trial.

Women's status and child nutrition in developing countries. A multi-country comparative investigation of the Asian Enigma

Principal Investigator: Lisa Smith
Agency: Swedish International Development Agency (SIDA)
Period: 01/01/99 – 6/30/01
Direct Costs: \$112,742
Indirect Costs: \$ 22,548
Total Costs: \$135,290
Role on Project: **Co-Investigator**
Objective: To examine the role of women's status in determining child nutritional status and determine if it explains the higher prevalence of malnutrition in South Asia compared to Sub-Saharan Africa using nationally representative data from the Demographic Health Surveys.

Generational Effects of Malnutrition

Principal Investigator: Reynaldo Martorell
Agency: NIH
Period: 03/01/95 – 4/30/03
Direct Costs: \$2,484,976
Indirect Costs: \$ 539,431
Total Costs: \$3,024,407
Role on Project: **Co-Investigator**
Objective: Trace effects of malnutrition across generations in Guatemala

Effects of micronutrient supplements during pregnancy on prenatal and early postnatal growth

Principal Investigator: Reynaldo Martorell
Agency: The Thrasher Research Fund and UNICEF
Period: 01/01/97 – 06/30/00
Direct Costs: \$239,790

Indirect Costs: \$ 4,687
Total Costs: \$244,477
Role on Project: **Co- Principal Investigator**
Objective: This study was a randomized double-blind controlled trial that was conducted in rural Mexico to determine whether the daily consumption of multi-vitamin mineral supplements during pregnancy (3 to 24 months of age) compared to only iron improves prenatal and early postnatal growth and maternal and infant micronutrient status. The study subjects were the infants born to the pregnant women who participated in prenatal intervention trial.

The Child Survival Flagship Project (BASICS2) Principal

Investigator: Dr. Deborah McFarland
Agency: USAID
Period: 07/01/02 – 06/30/04
Direct Costs: \$301,406
Indirect Costs: \$105,492
Total Costs: \$406,898
Role on Project: **Co-Investigator**
Objective: BASICS II is USAID's flagship project for child survival. Advancing Policies and Programs BASICS II builds on lessons of its predecessor, BASICS I (1994-1999). The global project is charged with achieving the greatest possible country-level impact on major threats to child health and providing technical leadership in policies and programming. BASICS II focuses on four areas that promise the greatest reduction in mortality: effective and sustainable child immunization, perinatal and neonatal health, nutrition and growth promotion, integrated approaches to child health.

Anthropometry Equipment Evaluation Project

Principal Investigator: **Usha Ramakrishnan**
Agency: Centers for Disease Control and Prevention
Period: 09/22/98 – 09/30/01
Direct Costs: \$15,949
Indirect Costs: \$ 1,715
Total Costs: \$17,664
Objective: To evaluate a variety of scales and stadiometers used to weigh and measure (height/length) children (infants less than 12 months old and children 12-59 months old) and adults.

Iron Nutrition of Women of Reproductive Age

Principal Investigator: **Usha Ramakrishnan**
Agency: National Institutes of Health (R29-HD34531-02)
Period: 05/01/98 - 04/30/05
Direct Costs: \$352,045
Indirect Costs: \$185,854
Total Costs: \$537,899
Objective: The goal of this project is to examine the iron status of women of reproductive age in the United States using nationally representative data from the Third National Health and Examination Survey (NHANESIII), 1988-1994. Specific objectives include to identify the contribution of supplements, fortified foods and dietary intakes in different age-race groups.

TEACHING ACTIVITIES

Course Instructor (Emory University, RSPH)*

CURRENT:

2021 to date (Fall/Spring) GHD 702R: Introductory Graduate Seminar (1 credit hour)
2022 to date (Fall/Spring) GHD704R: Advanced Graduate Seminar (1 credit hour)
2023 to date (Fall) GH548/NHS580: Macronutrient Metabolism (4 credit hours)
2023 to date (Spring) GH549/NHS581: Micronutrient Metabolism (3 credit hours)
1997 to date (Spring) GH545: Nutrition Assessment (3 credit hours)

PAST

1996-2022 (Spring) GH 546: Maternal and Child Nutrition (3 credit hours)
2006-2022 (Fall) GH549/NHS580: Human Nutrition I (6 credit hours)
2006-2022 (Spring) GH549/NHS581: Human Nutrition II (6 credit hours)
2012-2019 (Fall/Spring) NHS 570: Introductory Doctoral Nutrition Seminar (1 credit hour)
2012-2019 (Fall/Spring) NHS 790: Advanced Doctoral Nutrition Seminar (1 credit hour)
1995-1996 GH 550: Controversies in Public Health Nutrition (2 credit hours)

** All of the above courses were developed by Dr. Ramakrishnan*

Mentoring: Have mentored several junior faculty, postdoctoral fellows and over 60 graduate students (masters and doctoral)

SERVICE RELATED ACTIVITIES

A. Hubert Department of Global Health (HDGH)*, RSPH, Emory University

1997- date Member, Search Committees (7) for HDGH Faculty and Post doctoral fellows
2017-2018 Chair, Search Committee for Research Assistant Professor
2009-2010 Chair, Search Committee for Assistant Professor in Maternal and Child Nutrition
2009-2011 Member, HDGH Space Committee
2004-2005 HDGH Thesis Awards Committee
1997 to 2015 Member, HDGH Admissions Committee
1996 to 2015 Coordinator, HDGH Public Nutrition Concentration
1997-1999 Coordinator, DIH Faculty Seminar Series

B. Rollins School of Public Health (RSPH), Emory University

2018- 2019 Member, Search Committee for Associate Dean for Research, RSPH
2017-2018 Member, Search Committee for Chair, Department of Biostatistics and Bioinformatics, RSPH
2012 - 2018 Member, Appointments, Promotion, and Tenure (APT) Committee

2005-2011	Chair and At-large Member, RSPH Faculty Senate
2005-2006	Member, Search Committee for Director of Information Services, RSPH
2004-2005	Member (HGDH Representative), Faculty Senate
2001-2004	Member, RSPH Taskforce for Recruitment. Member, Committee for MPH/MSN in International Nursing
1998-2001	Member, RSPH Curriculum Committee
1997-2001	Member, RSPH Teaching Committee
1997-2000	Delta Omega Society (Honor society for Public Health), served as President, Vice President and Secretary.
1999-2000	Member, RSPH Strategic Planning Committee for Teaching
1999	Chair, RSPH Gangarosa Award Committee
1998	Chair, RSPH Ethics and Honor Code Advisory Committee.
1995-1998	Member, Ethics and Honor Code Advisory Committee

C. Doctoral Program in Nutrition and Health Sciences (NHS), Emory University

2007 to date	Member, NHS Executive Committee
2007-2019	Program Director Member, NHS Admissions Committee
2000-2006	Recruitment Coordinator
1996-1997	Member, NHS Recruitment Committee and Spring Symposium Committee

D. Emory University

2021 to date	Member, Academic Review Committee
2020 to date	Member, COACHE Committee
2007 to date	Member, Woodruff Leadership Academy
2024	Member, Search Committee, Vice-Provost for Internationalization
2012 to 2023	Member, Admissions Committee for MD/PHD program
2021-2022	Member, Search Committee, Dean, Laney Graduate School
2020-2021	Member, Search Committee, VP for Global Health, Director of Emory Global Health Institute

2019 to 2021	Member, University Faculty Council
2013 -2014	Member, Committee for Liberal Arts and Emory University
2012 -2013	Member, Organizing Committee, Emory Research and Career Symposium
2011- 2012	Member, Campus Space Committee
2007-2011	Member, MLK Awards Committee
2006-2007	Member, Campus Development Committee
2005-2007	Co-Chair, Community Service Awards Program (in remembrance of the Rev. Dr. Martin Luther King, Jr.) Sponsored by RSPH and the Goizueta Business School
1999-2000	Member, University Task Force for Student Evaluation of Teaching

SERVICE TO PROFESSION

A. Technical Assistance/ Expert Working Groups/ Consultancies

2021 to date	Member, Avinashilingam Vision-2040 Committee, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore 641 043
2022-2023	Member, NICHD Biomarkers of Nutrition for Development-Knowledge Indicating Dietary Sufficiency (BOND-KIDS) Working Group 1
2012-2022	Member, Research Advisory Board, Public Health Foundation of India, Delhi, India
2012-2022	Member, Advisory Board, Samarth, Chennai, India
2021	Member, Review Committee for the Norman Kretchmer Memorial Award in Nutrition and Development, American Society for Nutrition 2019
2019	Participated in a WHO meeting on “Research priorities meeting to prevent, identify and manage young infants with growth failure in the first 6 month of life held in Geneva, Switzerland, Jan 28-29, 2019.
2011	Served as external examiner for doctoral dissertation and participated as official “ <i>opponent</i> ” for the public defense of Ms. Hanna Eneroth at Uppsala University, Uppsala, Sweden
2010	Participated in CDC/WHO Technical Consultation – WHO Estimates of Vitamin and Mineral Deficiencies held in Atlanta GA, Dec 7-9, 2010
2008	Invited participant in meeting on “ <i>Measurement of Micronutrient Status</i> ” hosted by The Gates Foundation. Seattle, Washington, Aug 2008
2008	Consultant for WHO (SEARO) to help develop a document of case studies on the

role of weekly iron supplementation for women of reproductive age in programmatic settings

- 2007 Participated in a WHO meeting on “*Global Consultation on Weekly Iron and folic Acid Supplementation (WIFS) for Preventing Anaemia in Women of Reproductive Age (WRA)*” held in Manila, Philippines, April 25-27, 2007
- 2006 Participated as an expert in a long distance training course for pediatricians conducted in collaboration with the Mexican Academy of Pediatrics and sponsored by Nestle. Responsibilities included authoring a 20 page review paper titled “*Significance of n-3 and n-6 fatty acids in Pediatric Nutrition*” that was posted online for a month at the end of which I participated in an online question and answer sessions with the participants. This activity was part of the continual education certification by the Mexican Council of Certification on Pediatrics
- 2006 Participated in a WHO/SCN/UNICEF meeting of principal investigators involved in the trials of multiple micronutrient supplementations during pregnancy to be held in Geneva, Switzerland June 26 and 27, 2006
- 2002-2004 Core Member, Nutrition, Growth, and Pubertal Development Working Group, National Children’s Study, National Institute of Child Health and Development
- 2004 Participated in NIH sponsored meeting on “*Improving Maternal Nutrition to Optimize Pregnancy Outcome: Development of a research Plan,*” Washington, DC, Nov 8-9, 2004
- 2004 Attended the National Consultation on “*Institutes of Public Health in India: Moving from Concept to Reality sponsored by ASPH and the Government of India in New Delhi,*” Sept 16-18th 2004
- 2001 Served as Rapporteur and Co-editor for the Proceedings of the XXV Meeting of the International Consultative Group for Vitamin A Deficiency, Feb, 2001, Hanoi, Vietnam
- 2001 Provided technical assistance to Micronutrient Initiative, South Asia to evaluate the effectiveness of micronutrient fortified sprinkles in reducing and preventing anemia in young children in West Bengal
- 1999-2001 Member, Scientific Program Planning Committee for the ILSI/ EMORY/CDC Meeting on "Forging Effective Strategies for the prevention of Iron Deficiency", May 2001, Atlanta, GA. Responsibilities including regular participation in conference calls to set the agenda, select speakers and review abstracts
- 1999-2000 Provided technical assistance to BASICS II (USAID supported project) to develop action plans for improving nutrition and health in young children. This included regular visits to Washington to participate in planning meetings and preparing state of the art policy briefs
- 2000 Visited Dr. S. Karmarkar, Pediatric Surgeon, Wadia Medical College, Mumbai, India to discuss partnerships with RSPH, Emory University to support advocacy, technical assistance and research on the role of promoting folic acid in the prevention of neural

tube defects in India

- 1998 Provided technical assistance to BASICS for the evaluation of the USAID supported AIN program (An integrated nutrition program with growth monitoring and nutrition education) in Honduras. Specific tasks included developing study design, evaluating protocols and implementation, field visits during data collection, analysis of the results of the baseline survey and preparation of the final report
- 1997 Assisted in analyzing data from the Demographic & Health Surveys (DHS) from several countries and preparing the draft proposal on “*Solving Asian Enigma: Why are child malnutrition rates greater in South Asia than in Sub-Saharan Africa?*” for UNICEF (SEARO), Kathmandu, Nepal
- 1996 Analyzed and interpreted current data on the worldwide patterns of nutritional status and indicators of care for the “World Report on Nutrition” World Health Organization, Geneva
- 1995 Evaluated, visited and assisted in the development of proposals for “*the prevention and control of anemia among pregnant women*” with four private voluntary organizations in India for MotherCare, John Snow Inc, Washington, DC
- 1989-1991 Trained field workers, supervised data collection, entry and analysis for project evaluating "Cost effectiveness of immunization programs in Tamilnadu, India, for REACH, John Snow, Washington, DC

B. Grant Application Reviews

- 2017-2023 Standing member of the “Obstetrics and Maternal-Fetal Biology (OMFCB-CHHD-B)” Study Section, NICHD, NIH.
- 2017 Member, NIH ZRG1 F06 A (20) L Review Panel and reviewed predoctoral fellowships (F30/F31/F32).
- 2012- 2016 Member, NICHD Training Grant Review Panels (T-32)
- 2011 NIH Special Emphasis Panel (SEP) for grants submitted for the Indo-US Partnership in Maternal and Child Health (R03- NICHD).
- 2011 NIH Global Health ZHD1-DSR-M, (U-10 & U01), Dec 2011
- 2010 NIDDK Training grants (K-24, T-32 etc), November 2010
- 2009 NIH Review Panel for Challenge Grants, July 2009
- 2009 NIH Special Emphasis Panel (PA on Iron intervention in Malaria Endemic Areas), July 16-17, 2009 (was invited to be chair)
- 2008 NIH Special Emphasis Panel (PA on Nutrition and HIV), June 16-17, 2008
- 1995 to date Thrasher Research Fund and Nestle Foundation

C. Professional Society Membership

1996 to date	American Public Health Association
1993 to date	American Society for Nutrition
2012 to date	Elected Councilor at large, Global Nutrition Council Governance Committee (ASN)
2010-2012	Member, Program Committee, American Society of Nutrition (ASN)
2012 to 2015	Scientific and Education Programs Oversight Committee, ASN

D. Editorial Boards and Manuscript Reviews

2020 -2024	Member, Editorial Board for the American Journal of Clinical Nutrition
1993 to date	Reviewer for books and manuscripts for leading journals in fields of expertise (Lancet, JAMA, Journal of Nutrition, American Journal of Clinical Nutrition, European Journal of Clinical Nutrition, International Journal of Epidemiology, Food and Nutrition Bulletin, and American Journal of Obstetrics and Gynecology and Nutrition Research)