

# 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  
1518 Clifton Road N.E.  
Atlanta, GA 30322 USA  
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## 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**, participated in the leadership training program conducted by the Woodruff Health Sciences Center (WHSC), 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, LGS, Emory University, Atlanta, GA
- 2019 to date      **Adjunct Faculty**, Sri Ramachandra Institute of Higher Education and Research, Chennai, 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), Laney Graduate School, Emory University.
- 2019 to 2020      **Interim Chair**, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA
- 2013 to 2020      **Professor (tenured)**, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA
- 2015 -2019        **Vice-Chair**, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA

- 2007 - 2019 **Director**, Doctoral Program in Nutrition and Health Sciences, Graduate School of Arts and Sciences, Emory University, Atlanta, GA
- 2004 - 2013 **Associate Professor (tenured)**, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA
- 1998-2004 **Assistant Professor (Tenure-track)**, Department of International Health, Rollins School of Public Health (RSPH), Emory University, Atlanta, GA
- May 1996-Aug 1998 **Research Assistant Professor**, Department of International Health, Rollins School of Public Health, Emory University, Atlanta, GA (non-tenure track)
- Nov 1994-May 1996 **Research Associate**, Department of International Health, Rollins School of Public Health, Emory University, Atlanta, GA
- May 1993-Nov 1994 **Research Associate**, Division of Nutritional Sciences, Cornell University, Ithaca, NY
- Aug 1987-May 1993 **Graduate Research Assistant**, Division of Nutritional Sciences, Cornell University, Ithaca, NY
- Nov 1986-Jul 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

### A. Peer Reviewed Articles

1. Roshania RP\*, Giri R, Cunningham SA, Young MF, Webb-Girard A, Das A, Mala GS, Srikantiah S, Mahapatra T, **Ramakrishnan U**. [Early life migration and undernutrition among circular migrant children: An observational study in the brick kilns of Bihar, India.](#) J Glob Health. 2022 Feb 5;12:04008. doi: 10.7189/jogh.12.04008. eCollection 2022. PMID: 35136599.
2. Mazariegos M, Varghese JS, Kroker-Lobos MF, DiGirolamo AM, Ramirez-Zea M, **Ramakrishnan U**, Stein AD. [Age at childbirth and change in BMI across the life-course: evidence from the INCAP Longitudinal Study.](#) BMC Pregnancy Childbirth. 2022 Feb 24;22(1):151. doi: 10.1186/s12884-022-04485-6. PMID: 35209869
3. Cyriac S\*, Webb Girard A, **Ramakrishnan U**, Mannar MG, Khurana K, Rawat R, Neufeld LM, Martorell R, Mbuya MNN. [Making programmes worth their salt: Assessing the context, fidelity and outcomes of implementation of the double fortified salt programme in Uttar Pradesh, India.](#) Matern Child Nutr. 2022 Jan;18(1):e13243. doi: 10.1111/mcn.13243. Epub 2021 Jul 18. PMID: 34278722.
4. Simkovich SM, Underhill LJ, Kirby MA, Crocker ME, Goodman D, McCracken JP, Thompson LM, Diaz-Artiga A, Castañaza-Gonzalez A, Garg SS, Balakrishnan K, Thangavel G, Rosa G, Peel JL, Clasen TF, McCollum ED, Checkley W; HAPIN Investigators. [Resources and Geographic Access to Care for Severe Pediatric Pneumonia in Four Resource-limited Settings.](#) Am J Respir Crit Care Med. 2022 Jan 15;205(2):183-197. doi: 10.1164/rccm.202104-1013OC. PMID: 34662531.
5. Bookhart LH\*, Anstey EH, Kramer MR, Perrine CG, Reis-Reilly H, **Ramakrishnan U**, Young MF. [A nation-wide study on the common reasons for infant formula supplementation among healthy, term, breastfed infants in US hospitals.](#) Matern Child Nutr. 2021 Dec 14:e13294. doi: 10.1111/mcn.13294. Online ahead of print. PMID: 34905644.
6. Young MF, **Ramakrishnan U**. Maternal Undernutrition before and during Pregnancy and Offspring Health and Development. Ann Nutr Metab. 2021 Feb 1:1-13. doi: 10.1159/000510595. Epub ahead of print. PMID: 33524980.
7. Nguyen PH, Tran LM, Khuong LQ, Young MF, Duong TH, Nguyen HC, DiGirolamo AM, Martorell R, **Ramakrishnan U**. [Child Linear Growth During and After the First 1000 Days Is Positively Associated with Intellectual Functioning and Mental Health in School-Age Children in Vietnam.](#) J Nutr. 2021 Sep 4;151(9):2816-2824. doi: 10.1093/jn/nxab182. PMID: 34113979.
8. Nguyen PH, Young MF, Tran LM, Khuong LQ, Duong TH, Nguyen HC, Truong TV, DiGirolamo AM, Martorell R, **Ramakrishnan U**. [Preconception micronutrient supplementation positively affects child intellectual functioning at 6 y of age: A randomized controlled trial in Vietnam.](#) Am J Clin Nutr. 2021 May 8;113(5):1199-1208. doi: 10.1093/ajcn/nqaa423. PMID: 33668050.
9. Khandelwal S\*, Kondal D, Chaudhry M, Patil K, Swamy MK, Pujeri G, Mane SB, Kudachi Y, Gupta R, **Ramakrishnan U**, Stein AD, Prabhakaran D, Tandon N. Prenatal Maternal Docosahexaenoic Acid (DHA) Supplementation and Newborn Anthropometry in India: Findings from DHANI. Nutrients. 2021; 13(3):730. <https://doi.org/10.3390/nu13030730>
10. Gonzalez Casanova I, Schoen M, Tandon S, Stein AD, Barraza Villarreal A, DiGirolamo AM, Demmelmair H, Ramirez Silva I, Feregrino RG, Rzehak P, Stevenson I, Standl M, Schnaas L, Romieu I, Koletzko B, **Ramakrishnan U**. [Maternal FADS2 single nucleotide polymorphism](#)

- [modified the impact of prenatal docosahexaenoic acid \(DHA\) supplementation on child neurodevelopment at 5 years: Follow-up of a randomized clinical trial.](#) Clin Nutr. **2021** Oct;40(10):5339-5345. doi: 10.1016/j.clnu.2021.08.026. Epub 2021 Sep 11. PMID: 34543890.
11. Ramirez-Silva I, Pérez Ferrer C, Ariza AC, Tamayo-Ortiz M, Barragán S, Batis C, Cantoral A, Sánchez M, Zambrano E, Burguete-García AI, Avila-Jimenez L, **Ramakrishnan U**, Stein AD, Martorell R, Rivera JA. [Infant feeding, appetite and satiety regulation, and adiposity during infancy: a study design and protocol of the 'MAS-Lactancia' birth cohort.](#) BMJ Open. **2021** Oct 12;11(10):e051400. doi: 10.1136/bmjopen-2021-051400. PMID: 34642196.
  12. Nasrin D, Blackwelder WC, Sommerfelt H, Wu Y, Farag TH, Panchalingam S, Biswas K, Saha D, Jahangir Hossain M, Sow SO, Reiman RFB, Sur D, Faruque ASG, Zaidi AKM, Sanogo D, Tamboura B, Onwuchekwa U, Manna B, Ramamurthy T, Kanungo S, Omore R, Ochieng JB, Oundo JO, Das SK, Ahmed S, Qureshi S, Quadri F, Adegbola RA, Antonio M, Mandomando I, Nhampossa T, Bassat Q, Roose A, O'Reilly CE, Mintz ED, **Ramakrishnan U**, Powell H, Liang Y, Nataro JP, Levine MM, Kotloff KL. [Pathogens Associated With Linear Growth Faltering in Children With Diarrhea and Impact of Antibiotic Treatment: The Global Enteric Multicenter Study.](#) J Infect Dis. **2021** Dec 20;224(12 Suppl 2):S848-S855. doi: 10.1093/infdis/jiab434. PMID: 34528677.
  13. 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. PMID: 33880566.
  14. Gosdin L\*, Sharma AJ, Tripp K, Amoafu EF, Mahama AB, Selenje L, Jefferds ME, Martorell R, **Ramakrishnan U**, Addo OY. [A School-Based Weekly Iron and Folic Acid Supplementation Program Effectively Reduces Anemia in a Prospective Cohort of Ghanaian Adolescent Girls.](#) J Nutr. **2021** Jun 1;151(6):1646-1655. doi: 10.1093/jn/nxab024. PMID: 33758915.
  15. Sekkarie A\*, Welsh JA, Northstone K, Stein AD, **Ramakrishnan U**, Vos MB. [Associations between Free Sugar and Sugary Beverage Intake in Early Childhood and Adult NAFLD in a Population-Based UK Cohort.](#) Children (Basel). **2021** Apr 8;8(4):290. doi: 10.3390/children8040290. PMID: 33917875
  16. Mehta RV\*, Wendt AJ, Girard AW, Taneja S, Ranjan S, **Ramakrishnan U**, Martorell R, Ryan PB, Rangiah K, Young MF. [Risk of dietary and breastmilk exposure to mycotoxins among lactating women and infants 2-4 months in northern India.](#) Matern Child Nutr. **2021** Apr;17(2):e13100. doi: 10.1111/mcn.13100. Epub 2020 Nov 16. PMID: 33200580
  17. Gosdin L\*, Amoafu EF, Sharma D, Sharma AJ, Addo OY, Ashigbi X, Mumuni B, Situma R, **Ramakrishnan U**, Martorell R, Jefferds ME. [A Qualitative Analysis of Program Fidelity and Perspectives of Educators and Parents after Two Years of the Girls' Iron-Folate Tablet Supplementation \(GIFTS\) Program in Ghanaian Secondary Schools.](#) Curr Dev Nutr. **2021** Jul 2;5(7):nzab094. doi: 10.1093/cdn/nzab094. eCollection 2021 Jul. PMID: 34350372.
  18. Sekkarie A\*, Welsh JA, Northstone K, Stein AD, **Ramakrishnan U**, Vos MB. [Associations of maternal diet and nutritional status with offspring hepatic steatosis in the Avon longitudinal study of parents and children.](#) BMC Nutr. **2021** Jul 8;7(1):28. doi: 10.1186/s40795-021-00433-3. PMID: 34233762.

19. Tandon S\*, Gonzalez-Casanova I, Barraza-Villarreal A, Romieu I, Demmelmair H, Jones DP, Koletzko B, Stein AD, **Ramakrishnan U**. [Infant Metabolome in Relation to Prenatal DHA Supplementation and Maternal Single-Nucleotide Polymorphism rs174602: Secondary Analysis of a Randomized Controlled Trial in Mexico](#). *J Nutr*. **2021** Nov 2;151(11):3339-3349. doi: 10.1093/jn/nxab276.PMID: 34494106 Clinical Trial.
20. Barragán-Vázquez S, Ariza AC, Ramírez Silva I, Pedraza LS, Rivera Dommarco JA, Ortiz-anozo E, Zambrano E, Reyes Castro LA, Shivappa N, Hébert JR, Martorell R, Stein AD, Barraza-Villarreal A, Romieu I, Avila-Jiménez L and **Ramakrishnan U**, Pro-Inflammatory Diet Is Associated with Adiposity during Childhood and with Adipokines and Inflammatory Markers at 11 Years in Mexican Children. *Nutrients*, Volume 12 Issue 12 10.3390/nu12123658; 27 November **2020** as part of the Special Issue Dietary Inflammatory Index and Non-communicable Disease Risk and is available online;; <https://www.mdpi.com/2072-6643/12/12/3658/htm>
21. **Ramakrishnan U**. Impact of nutrition on the next generation: The INCAP Longitudinal Study. *Food Nutr Bull* June **2020**; 41(1\_suppl): S50-S58; <https://doi.org/10.1177/0379572120915422>
22. Sekkarie A\*, Welsh JA, Northstone K, Cioffi CE, Stein AD, Figueroa J, **Ramakrishnan U**, Vos MB. ALT Trends through Childhood and Adolescence Associated with Hepatic Steatosis at 24 Years: A Population-Based UK Cohort Study. *Children* **2020**, 7(9), 117, <https://doi.org/10.3390/children7090117>. Published: 1 September 2020; <https://www.mdpi.com/2227-9067/7/9/117>
23. Nguyen PH, Young MF, Khuong LQ, **Ramakrishnan U**, Martorell R, Hoffman DJ. Development of population-specific prediction equations for bioelectrical impedance analyses in Vietnamese children. *Br J Nutr*. **2020** Jul 3:1-8. doi: 10.1017/S000711452000241X. Online ahead of print. PMID: 32616079
24. Gosdin L\*, Sharma AJ, Tripp K, Amoafu EF, Mahama AB, Selenje L, Jefferds ME, **Ramakrishnan U**, Martorell U, Addo OY. Barriers to and Facilitators of Iron and Folic Acid Supplementation within a School-Based Integrated Nutrition and Health Promotion Program among Ghanaian Adolescent Girls. *Curr Dev Nutr*, **2020**. 4(9), nzaa135. doi:[10.1093/cdn/nzaa135](https://doi.org/10.1093/cdn/nzaa135)
25. Cyriac S\*, Haardörfer R, Neufeld LM, Girard AW, **Ramakrishnan U**, Martorell R, Mbuya MNN. High Coverage and Low Utilization of the Double Fortified Salt Program in Uttar Pradesh, India: Implications for Program Implementation and Evaluation. *Curr Dev Nutr*, **2020**; 4(9), nzaa133. doi:[10.1093/cdn/nzaa133](https://doi.org/10.1093/cdn/nzaa133)
26. Mehta RV\*, Sreenivasa MA, Mathew M, Girard AW, Taneja S, Ranjan S, **Ramakrishnan U**, Martorell R, Ryan PB, Young MF. A mixed-methods study of pesticide exposures in Breastmilk and Community & Lactating Women's perspectives from Haryana, India. *BMC Public Health*. **2020**, 20(1), 1877. doi:[10.1186/s12889-020-09966-x](https://doi.org/10.1186/s12889-020-09966-x)
27. Sekkarie A\*, He S, Welsh JA, **Ramakrishnan U**, Stein AD, Vos MB. Prevalence of NAFLD in Guatemala following exposure to a protein-energy nutrition intervention in early life. *Ann Hepatol*. **2020** Jul-Aug;19(4):373-379. doi: 10.1016/j.aohep.2020.04.004. Epub 2020 May 16. PMID: 32507551
28. Rhodes EC\*, Suchdev PS, Narayan KMV, Cunningham S, Weber MB, Tripp K, Mapango C, **Ramakrishnan U**, Hennink M, Williams AM. The Co-Occurrence of Overweight

- and Micronutrient Deficiencies or Anemia among Women of Reproductive Age in Malawi. *J Nutr.* **2020** Jun 1;150(6):1554-1565. doi: 10.1093/jn/nxaa076. PMID: 32271925
29. Liao J, McCracken JP, Piedrahita R, Thompson L, Mollinedo E, Canuz E, De León O, Díaz-Artiga A, Johnson M, Clark M, Pillarisetti A, Kearns K, Naeher L, Steenland K, Checkley W, Peel J, Clasen TF; **HAPIN investigators**. **Correction:** The use of bluetooth low energy Beacon systems to estimate indirect personal exposure to household air pollution. *J Expo Sci Environ Epidemiol.* **2020** May;30(3):587. doi: 10.1038/s41370-020-0215-5. PMID: 32107459 Free PMC article.
  30. Burrowes VJ, Piedrahita R, Pillarisetti A, Underhill LJ, Fandiño-Del-Rio M, Johnson M, Kephart JL, Hartinger SM, Steenland K, Naeher L, Kearns K, Peel JL, Clark ML, Checkley W; **HAPIN Investigators**. Comparison of next-generation portable pollution monitors to measure exposure to PM2.5 from household air pollution in Puno, Peru. *Indoor Air.* **2020** May;30(3):445-458. doi: 10.1111/ina.12638. Epub 2020 Jan 23. PMID: 31885107 Free PMC article.
  31. **Ramakrishnan U**, Webb Girard A. Improving Children's Diet: Approach and Progress. *Nestle Nutr Inst Workshop Ser.* 2020;93:25-38. doi: 10.1159/000503354. Epub **2020** Jan 28. PMID: 31991431 Review.
  32. Jones R\*, Haardörfer R, **Ramakrishnan U**, Yount KM, Miedema SS, Roach T, Webb Girard A. Intrinsic and instrumental agency associated with nutritional status of East African women. *Soc Sci Med.* **2020**; 247:112803. doi: 10.1016/j.socscimed.2020.112803. Online ahead of print. PMID: 31978705
  33. Liao J, McCracken JP, Piedrahita R, Thompson L, Mollinedo E, Canuz E, De León O, Díaz-Artiga A, Johnson M, Clark M, Pillarisetti A, Kearns K, Naeher L, Steenland K, Checkley W, Peel J, Clasen TF; **HAPIN investigators**. The use of bluetooth low energy Beacon systems to estimate indirect personal exposure to household air pollution. *J Expo Sci Environ Epidemiol.* **2019** Sep 26:10.1038/s41370-019-0172-z. doi: 10.1038/s41370-019-0172-z. Online ahead of print. PMID: 31558836
  34. Koletzko B, Bergmann K, Brenna JT, Calder PC, Campoy C, Clanidin T, Colombo J, Daly M, Descsi T, Demmelmair H, Domellof M, Mis ND, Gonzalez-Casanova I, van Goudoever JB, Hadjipanayis A, Hernell O, Lapillonne A, Mader S, Martin CR, Matthäus V, Ramakrishnan U, Strain SJJ, Tanjung C, Tounian P, Carlson SE, on behalf of the European Academy of Pediatrics and the Child Health Foundation. Choices for adding long-chain polyunsaturated fatty acids to infant formula. A position paper of the European Academy of Pediatrics and the Child Health Foundation. *Am J Clin Nutr.* **2020** Jan 1;111(1):10-16. doi: 10.1093/ajcn/nqz252.
  35. Webb Girard A, Waugh E, Sawyer S, Golding L, **Ramakrishnan U**. A scoping review of social-behaviour change techniques applied in complementary feeding interventions. *Matern Child Nutr.* **2020** Jan;16(1):e12882. doi: 10.1111/mcn.12882. Epub 2019 Sep 9. PMID: 31386791 Free PMC article. Review.
  36. Girard-Webb A, Waugh E, Sawyer S, Golding L, **Ramakrishnan U**. Commonly applied social behavior change techniques used in complementary feeding programs in low and middle income countries: A scoping review. *Matern Child Nutr.* **2020** Jan;16(1):e12882. doi: 10.1111/mcn.12882. Epub 2019 Sep 9.

37. Goodman D, Crocker ME, Pervaiz F, McCollum ED, Steenland K, Simkovich SM, Miele CH, Hammitt LL, Herrera P, Zar HJ, Campbell H, Lanata CF, McCracken JP, Thompson LM, Rosa G, Kirby MA, Garg S, Thangavel G, Thanasekaraan V, Balakrishnan K, King C, Clasen T, Checkley W; **HAPIN Investigators**. Challenges in the diagnosis of paediatric pneumonia in intervention field trials: recommendations from a pneumonia field trial working group. *Lancet Respir Med*. **2019** Dec;7(12):1068-1083. doi: 10.1016/S2213-2600(19)30249-8. Epub 2019 Oct 4. PMID: 31591066 Free PMC article. Review.
38. Yount KM, Cheong YF, Miedema SS, Chen JS, Menstell E, Maxwell L, **Ramakrishnan U**, Clark CJ, Rochat R, Del Rio C. Gender equality in global health leadership: Cross-sectional survey of global health graduates. *Glob Public Health*. **2019** Dec:1-13. Doi: 10.1080/17441692.2019.1701057. [Epub ahead of print] PubMed PMID: 31869280.
39. Jones R\*, Haardörfer R, **Ramakrishnan U**, Miedema S, Yount K, Webb-Girard A. Women's Empowerment and Child Nutrition: The Role of Intrinsic Agency. *Soc Sci Med - Popul Health*; **2019** Nov 20;9:100475. doi: 10.1016/j.ssmph.2019.100475. eCollection 2019 Dec. PMID: 31993480 Free PMC article.
40. Quinn AK, Williams K, Thompson LM, Rosa G, Díaz-Artiga A, Thangavel G, Balakrishnan K, Miranda JJ, Rosenthal JP, Clasen TF, Harvey SA; **HAPIN Investigators**. Compensating control participants when the intervention is of significant value: experience in Guatemala, India, Peru and Rwanda. *BMJ Glob Health*. **2019** Aug 21;4(4):e001567. doi: 10.1136/bmjgh-2019-001567. eCollection 2019. PMID: 31543990 Free PMC article. Review.
41. Koletzko B, Reischl E, Tanjung C, Gonzalez-Casanova I, **Ramakrishnan U**, Meldrum S, Simmer K, Heinrich J, Demmelmair H. FADS1 and FADS2 Polymorphisms modulate fatty acid metabolism and dietary impact on health. *Ann Rev Nutr* **2019**, 39:21-44. doi: 10.1146/annurev-nutr-082018-124250. PMID: 31433740
42. Barrios PL\*, Garcia-Feregrino R, Rivera JA, Barraza-Villarreal A, Hernández-Cadena L, Romieu I, Gonzalez-Casanova I, **Ramakrishnan U**, Hoffman DJ. Relative Height Trajectory during Early Childhood is Inversely Associated with Fat Mass in Later Childhood in Mexican Boys. *J. Nutr*, **2019**, <https://doi.org/10.1093/jn/nxz157>. PMID: 31334762
43. Mehta R\*, Martorell R, Chaudhuri I, Webb Girard A, **Ramakrishnan U**, Verma P, Kekre P, Srikantiah S, Fox Young M. Use of Monitoring Data to Improve Implementation of a Home Fortification Program in Bihar, India. *Matern Child Nutr*. **2019** Jul;15(3):e12753. doi: 10.1111/mcn.12753. Epub 2018 Dec 13. PMID: 30426653 Free PMC article.
44. Khandelwal S, **Ramakrishnan U**. Supplementing mothers and their offspring with long chain N-3 PUFA offers no benefit compared with placebo for infant development. Invited Commentary, *J. Nutr*, **2019**, 149 (3):357–8. PMID: 30801648 Free PMC article. No abstract available.
45. Deputy NP\*, Sharma AJ, Bombard JM, Lash TL, Schieve LA, **Ramakrishnan U**, et al. Quality of Maternal Height and Weight Data from the Revised Birth Certificate and Pregnancy Risk Assessment Monitoring System. *Epidemiology*. **2019** Jan;30(1):154-159. doi: 10.1097/EDE.0000000000000936.
46. León-Aguilar LF, Croyal M, Ferchaud-Roucher V, Fenyang Huang, Marchat L, Barraza- Villarreal A, Romieu I, **Ramakrishnan U**, Krempf M, Ouguerram K, Mercado-Camargo R, Bolaños-Jiménez F. Maternal obesity leads to long-term altered levels of plasma ceramides in the offspring as revealed



by a longitudinal lipidomic study in children. *International Journal of Obesity*.  
Dec 2018. doi.org/10.1038/s41366-018-0291-y. Epub 2018 Dec 19. PMID: 30568270

47. Conkle J\*, Keirse K, Hughes A, Breiman J, **Ramakrishnan U**, Suchdev PS, Martorell R. A collaborative, mixed-methods evaluation of a low-cost, handheld 3D imaging system for child anthropometry. *Matern Child Nutr*. 2018:e12686.
48. Nguyen PH, DiGirolamo AM, Gonzalez-Casanova I, Young M, Kim N, Nguyen S, Martorell R, **Ramakrishnan U**. Influences of early child nutritional status and home learning environment on child development in Vietnam. *Matern Child Nutr*. 2018 Jan;14(1). doi: 10.1111/mcn.12468. Epub 2017 Jun 6. PubMed PMID: 28585371.
49. Conkle J\*, Suchdev PS, Alexander E, Flores-Ayala R, **Ramakrishnan U**, Martorell R. Accuracy and reliability of a low-cost, handheld 3D imaging system for child anthropometry. *PloS one*. 2018;13(10):e0205320.
50. Gonzalez-Casanova I, Stein AD, Barraza-Villarreal A, Feregrino RG, DiGirolamo A, Hernandez-Cadena L, Rivera, JA, Romieu, I, **Ramakrishnan, U**. Prenatal exposure to environmental pollutants and child development trajectories through 7 years. *International journal of hygiene and environmental health*. 2018;221(4):616-22.
51. Gutierrez-Delgado RI, Barraza-Villarreal A, Escamilla-Nunez C, Hernandez-Cadena L, Garcia-Feregrino R, Shackleton C, **Ramakrishnan U**, Sly PD, Romieu, I. Effect of omega-3 fatty acids supplementation during pregnancy on lung function in preschoolers: a clinical trial. *The Journal of asthma : official journal of the Association for the Care of Asthma*. 2018:1
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## B. Book chapters

1. **Ramakrishnan U**, Gonzales-Casanova. Nutritional Epidemiology for Developing Countries. In: *Public Health Nutrition in Developing Countries*. Ed: Vir, S. Cambridge UK: Woodhead Publishing Ltd., 2<sup>nd</sup> 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.

6. Ramakrishnan U, **Young MF**, Martorell. Chapter 22: Maternal nutrition & Birth outcomes. In “Nutrition and Health in a Developing World” Edited by De Pee S, Taren D, and Bloem MW, Humana Press, Third Edition, **2017**; 487-502.
7. Gonzalez-Casanova I, Ramakrishnan U, Martorell R. Chapter 23: Small for Gestational Age: Scale and consequences for mortality, morbidity and development. In “Nutrition and Health in a Developing World” Edited by De Pee S, Taren D, and Bloem MW, Humana Press, Third Edition, **2017**; 503-522.
8. Young MF, **Ramakrishnan U**. Adolescent girls and women’s nutritional status in India: A critical review of current understanding, gaps and challenges. Public Health Foundation of India. **2016**.
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.
11. **Ramakrishnan U**, Semba RD. Iron Deficiency and Anemia. Iron Deficiency and Anemia. In: Nutrition and Health in Developing Countries, Second Edition. Eds: Semba RD, Bloem MW, **2008**; 479-505.
12. **Ramakrishnan U**, Huffman S. Multiple Micronutrient Malnutrition – What can be done? In Nutrition and Health in Developing Countries, II Edition. Eds: Semba, RD, Bloem, M. Totawa, NJ: Humana Press, **2008**; 531-576.
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.
16. **Ramakrishnan U**, Lotfi, M. Conclusions. In: Nutritional Anemias. Ed: Ramakrishnan, U. Boca Raton, FL, CRC Press. **2001**; 241-245.
17. **Ramakrishnan U**, Neufeld L. Recent Advances in Nutrition and Intrauterine Growth. In: Martorell R., Haschke F., Eds. Nutrition and Growth. Nestlé Nutrition Workshop Series, Vol 47. Philadelphia, Lippincott-Williams and Wilkins. **2001**, Chapter 7.

18. **Ramakrishnan U**, Huffman S. Multiple Micronutrient Malnutrition – What can be done? In Nutrition and Health in Developing Countries. Ed: Semba, R.D., Bloem, M. Totawa, NJ: Humana Press. **2001**, 365-392.
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** (in press).
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**

- |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2019 | Public Health Foundation of India Workshop. Mentoring and Advisement Committee (MAC) Meeting “ <i>Maternal Docosa Hexanoic Acid Supplementation and Offspring Neurodevelopment in India.</i> ” Dec 2019                                                                                                                                                                                                                                                                                                                                                                     |
|      | Co-Chair for Symposium on “ <i>Sustainable Development Goals and the Nutrition Research Community</i> ” that as held at the 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 “ <i>Do we need preconception nutrition interventions to improve birth outcomes beyond the prevention of neural tube defects? Current knowledge and future directions</i> ” 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 “ <i>Multiple micronutrients: Evidence to Programs</i> ” 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 “ <i>Maternal and child mental health: Role of Nutrition,</i> ” 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 - Experimental Biology (EB) 2007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



- 2004 Co-chair, Mini-Symposium on International Nutrition, sponsored by the Society for International Nutrition at the upcoming Annual Meeting of the American Society of Nutritional Sciences, Experimental Biology Meeting, to be held in 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 Soc 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.** “*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.**
2. **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.**
3. **Ramakrishnan U.** Impact of nutrition on the next generation – The Oriente Study. INCAP 70<sup>th</sup> Anniversary Celebrations, Guatemala City, Guatemala, **Sept 2019.**
4. **Ramakrishnan U.** Global research priorities in maternal and child health and nutrition. Sri Ramachandra Insitute of Higher Education and Research, Chennai, India, **June 2019**
5. **Ramakrishnan, U.** Micronutrient requirements across gestation. Nutrition in Pregnancy Conference , Institute, Oregon Health & Science University, Washington, DC, **May 2019.**
6. **Ramakrishnan U,** Girard-Webb A. Improving Childrens Diets: Approaches and Progress. Nestlé Nutrition Institute Workshop #93, Kolkatta, India, March **2019.**
7. **Ramakrishnan U.** Scientific Evidence for DHA and Cognitive Development, SLAN Congress, Guadalajara, Nov **2018.**
8. **Ramakrishnan U.** Nutrition Education during the Preconception Period. Nestlé Nutrition Institute Workshop #92, Lausanne, Switzerland, September **2018.**
9. **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.

10. **Ramakrishnan U.** Young MF. Current experiences delivering micronutrient interventions to adolescent girls: lessons learned and gaps. Micronutrient Forum Meeting, Cancun, Mexico, Oct **2016**
11. **Ramakrishnan, U.** “*Technical meeting on the diet and eating practices of adolescent girls and women of reproductive age.*” SPRING, Washington DC, USA. March **2015**
12. **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**
13. **Ramakrishnan, U.** “*Multiple micronutrient supplementation for women in pregnancy: Current Controversies.*” WHO, Geneva, Switzerland. June **2014**
14. **Ramakrishnan, U.** “Food and Nutrition Security – Putting Children First.” Atlanta Summit on Global Health and Hunger. JW Marriott, Buckhead, Atlanta. May **2013**
15. **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**
16. **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**
17. **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**
18. **Ramakrishnan, U.** “*Biology of Obesity,*” Presentation at the National Medical Association Meeting, Atlanta GA, July **2008**
19. **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**
20. **Ramakrishnan U.** “*Role of maternal DHA intake and pregnancy outcome*” Presentation at the 55<sup>th</sup> Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, San Diego, May 8, **2007**. CME presentation sponsored by American College of Nutrition
21. **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**
22. **Ramakrishnan U.** “*Maternal Health and Well-Being: A Cornerstone of the Millenium Development Goals.*” Presentation for United Nations Association of the United States of American and the Business Council for the United Nations held in Atlanta, Georgia, October 15, **2006**
23. Participated in a WHO/SCN/UNICEF meeting of principal investigators involved in the trials of multiple micronutrient supplementation during pregnancy held in Geneva, Switzerland, June 26 and 27, **2006**

24. **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**
25. **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**
26. **Ramakrishnan U.** “*Role of biofortification in the prevention and control of micronutrient malnutrition.*” Presentation at CIMMYT, Mexico, Sept **2003**
27. 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**
28. Presentation on “*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**
29. Presentation on “*Lifestyle factors and nutrition among South Asian*” at the Indian Professionals Network Meeting, Atlanta, GA, Aug **2003**
30. **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**
31. **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**
32. **Ramakrishnan U.** “*Nutrition and Low Birth Weight.*” Presentation at BASICS, Arlington VA, **2000**
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