

Dr Athe Ramesh

Assistant Professor

Department of Computer Science & Mathematics

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Educational Details

Ph.D. (Statistics) from Division of Biostatistics, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad, India. Awarded from Osmania University (2009-14).

M.Phil. (Statistics) from Department of Statistics, Osmania University, Hyderabad, India (2006-08).

M.Sc. (Statistics) from Department of Statistics, Osmania University, Hyderabad, India with Distinction

B.Sc. (Statistics) from SVS Degree College, Kakatiya University, Warangal, India with subjects (Mathematics, Statistics, Computer Science).

Area of Interests

- Systematic Review and Meta-analysis
- Application of statistical methods in medicine, nutrition, public health and social science
- Statistical/Bio-statistical tools including advanced multivariate methods
- Clinical Trials
- Experiences in dealing with large data sets
- Historical Data Analysis
- Applications of advanced statistical methods
- To lead in formulating research questions, planning, designing, and analysis of the study
 - Research methodology in Clinical research (Biostatistics)
 - Epidemiological study and Public health
 - Project handling and report writing
 - Developing database through FoxPro/MS Access

Research and Teaching Experience

July, 2019 to Present: Assistant Professor Department of Computer Science & Mathematics, Indian Institute of Information Technology, Dharwad, MHRD, Hubli, Karnataka-860029.

July, 2018 to July, 2019: Senior Research Officer at Regional Medical Research Centre, ICMR, Bhubaneswar, Odisha, India.

Working in the DHR funded project entitled "Health Technology Assessment" at Division of Public Health/Biostatistics Studies, RMRC, ICMR with data

Coordinating data collection and tabulation

Development of questionnaire

Data management, cleaning, tabulation, analysis and interpretation

Assisted in report writings

Preparation of presentations and fact sheets for meetings

Software used: SPSS 24, STATA 20, WHO Anthro.

July, 2016 to June, 2018: Visiting Scientist (Statistics) at Indian Statistical Institute, North East Centre, Tezpur, Assam, India.

Teaching Courses: 1. Statistical Methods, 2. Computer Intensive Statistical Methods and 3. Clinical Trials.

Writing of proposal for academic projects after reviewing literature

Development of questionnaire

Collection of data including follow-up data through questionnaire

Data management, cleaning, tabulation, analysis and interpretation for data

Assisted in report writings

Admin work: Member for various committees

Software used: SPSS 24, Review Manager, SAS, Graph Pad Prism, and R/R Studios.

Aug, 2015 to July, 2016: Senior Investigator (Biostatistics) at National Institute of Nutrition, ICMR, Hyderabad, Telangana, India.

Worked in the ICMR funded project entitled "Current Nutritional Status of under Five Years of Children- a Districts of Madhya Pradesh" at Division of Biostatistics/ Community Studies, NIN, ICMR, Hyderabad with data

Coordinating all districts regarding data collection and tabulation

Preparation of presentations and fact sheets for meetings

Data management, cleaning, tabulation, analysis and interpretation for all the districts

Assisted in report writings

Software used: SPSS 20, WHO Anthro.

Jan, 2015 to May, 2015: Scientist 'B' (Biostatistics/Pre Clinical Toxicology) at National Institute of Nutrition, ICMR, Hyderabad, Telangana, India.

1. Acute Pre-Clinical Toxicity Evaluation of Anti CD20 Recombinant Monoclonal Antibody (Clonzab-A Bio-similar Rituximab) In Swiss Albino Mice by Intravenous & Intramuscular Routes.

2. Acute Pre-Clinical Toxicity Evaluation of Anti CD20 Recombinant Monoclonal Antibody (Clonzab-A Bio-similar Rituximab) In New Zealand White Rabbits by Intravenous & Intramuscular Routes.

3. Sub Chronic Pre-Clinical Toxicity Evaluation of Anti CD20 Recombinant Monoclonal Antibody (Clonzab-A Bio-similar Rituximab) In Sprague Dawley Rats.

4. Pre-Clinical Toxicity Evaluation of Repeated Dose Intramuscular Local Tolerance Study of Liquid Pentavalent Vaccine (DTwP+HepB+Hib -Liq) In Sprague Dawley Rats.

Data management, cleaning, tabulation, analysis and interpretation for all the districts

Assisted in report writings Software used: SPSS 20, MedCalc.

June, 2005 to April, 2007: Faculty in Statistics at Sri Aurobindo Degree & PG College, Dilsuknagar, Hyderabad, Telangana, India.

June, 2003 to April, 2005: Faculty in Statistics at Jaya Degree College, Hanamkonda, Warangal, Telangana, India.

Under Graduate Courses: 1) Descriptive Statistics and Probability Distributions; 2) Statistical Methods and Inference; 3) Applied Statistics and Quality Control; and 4) Operations Research.

Post Graduate Course: Operations Research (M.Sc. Mathematics)

Commerce Graduate Course: Quantitative Techniques

Invited/Guest Lectures

- Gave course of Biostatistics for M.Sc. (Applied Nutrition), in Semester-I at National Institute of Nutrition, ICMR, Hyderabad, India from 2011 to 2013.
- Took classes and gave training of SPSS to M.Sc. Students at Saint Joseph PG College, Hyderabad, India from 2012 to 2013 (3 Weeks in each year).
- Gave guest lectures in Probability and Statistics course for Agricultural Statistics at PJTS Agricultural University, Palem, Telangana, India from Feb to June, 2016.
- Guest Lectures (6 hrs) for M.A. (Education) at Tezpur University, Tezpur, Assam, India in 2016.
- Resource person for workshop: Applications of Statistical Techniques in Environmental Science at Indian Statistical Institute, Tezpur, Assam, India in 2017.
- Resource person for workshop: Economic Statistics, Sampling, and Inequality and Poverty Measures at Indian Statistical Institute, Tezpur, Assam, India in 2017.
- Resource person for workshop: Research Methodology Course in Social Science for PhD Students at Indian Statistical Institute, Tezpur, Assam, India in 2018.
- Invited talk for workshop: Statistical methods and data analysis for working group at National Institute of Technology, Warangal, Telangana, India in 2019.

Research Thesis

1. **Ph.D. Topic:** Meta-analysis approach on micronutrient food fortification and its effect on health, social and economic factors-A statistical model building
Advisor: Dr M Vishnu Vardhana Rao, Director and Scientist G, National Institute of Medical Statistics, ICMR, New Delhi.
2. **M.Phil. Topic:** Trends in food production and needs in Andhra Pradesh
Advisor: Dr K Visweswara Rao, Head, Senior Deputy Director and Scientist F, National Institute of Nutrition, ICMR, Hyderabad.

Awards and Fellowship

1. Received 2nd Prize for project competition "Comparison of Traveling on APSRTC and Private Vehicles" All India level the XXII conference of Indian Society for Probability and Statistics, University of Pune, PUNE.
2. National Institute of Nutrition, Indian Council of Medical Research (ICMR)'s Junior Research Fellowship from 2009-11.
3. National Institute of Nutrition, Indian Council of Medical Research (ICMR)'s Senior Research Fellowship from 2011-14.

Scientific Publications

1. **Ramesh Athe**, M Vishnu Vardhana Rao, K Madhavan Nair. *Systematic review and meta-analysis approach on vitamin A fortified foods and its effect on retinol concentration in under 10 year children*. Clinical Nutrition ESPEN (Elsevier). Available online 8 February 2019.
2. S Pati, R Dwivedi, **Ramesh Athe**, S Swain. Minimum Data Set (MDS) based Trauma registry, is the data adequate? An evidence based study from Odisha, India. Journal of Family Medicine and Primary Care. 2019; 8:7-13.
3. Harshajit S, **Ramesh Athe**. *Youngstar's purchasing patterns/ behaviors of University students-A qualitative analysis*. Int J Adv Rec 2017; 5(7): 360-367.
4. **Ramesh Athe**, M Vishnu Vardhana Rao, K Madhavan Nair. *A meta-analysis combining parallel and cross-over randomized controlled trials to assess impact of iodine fortified foods on urinary iodine concentration among children*. Asia Pacific Journal of Clinical Nutrition. 2015; 24(3):496-503.
5. Agatha Betsy, **Ramesh Athe**, M. Vishnu Vardhana Rao, V Sudershan Rao, Kalpagam Polasa. *Validation of a food frequency interview schedule to assess the dietary intake of the population in Hyderabad city-A cross-sectional study*. Malaysian Journal of Nutrition. 2014; 20(2): 133-144.
6. **Ramesh Athe**, M Vishnu Vardhana Rao, K Madhavan Nair. *Impact of iron fortified foods on haemoglobin concentrations in children (<10 years): a systematic review and meta-analysis of randomized controlled trials*. Public Health Nutrition. 2013; 17(3): 579-586.
7. **Ramesh Athe**, et al. *Impact of iron fortified foods during pregnancy on haemoglobin concentration and child birth: a systematic review and meta-analysis of randomized, controlled trials*. Journal of Health, Population and Nutrition (BMC). **(Revised twice)**.
8. **Ramesh Athe**, et al. Association between body mass index and social support, physical activity, and eating habits of university students: A cross sectional study. Journal of Nutrition Education and Behaviour (Elsevier). **(Submitted)**.
9. **Ramesh Athe**, et al. Mapping of Health Technology Assessment teaching and training initiatives in India: the need for Public Health teaching. **BMC (Submitted)**.

Book Chapters

1. Shah Karishma, **Ramesh Athe**, Vishnu Vardhana Rao M, Subba Rao GM. *An assessment of functional and economic consequences of Micronutrient malnutrition in India*. Social Inclusion and Women Health; 2013; ISBN: 9788189110376; Chapter 15, pp: 299-322.
2. Lalitha D, Visweswara Rao, **Ramesh Athe**. *Suitability of Tests of Heteroscedasticity for Discontinuous Variables*. BIOSTATISTICS: A manual of Statistical Methods for Use in Health, Nutrition and Anthropology. Chapter 20(i); Pp: 227-237.
3. **Ramesh Athe**, Visweswara Rao. *Coefficients of Variation and Evaluation of Differentials*. BIOSTATISTICS: A manual of Statistical Methods for use in Health, Nutrition and Anthropology. Chapter 20(ii); Pp: 238-250.
4. **Ramesh Athe**, Visweswara Rao. *McNemar's test*. BIOSTATISTICS: A manual of Statistical Methods for Use in Health, Nutrition and Anthropology. Chapter 46(i); Pp: 751-757.
5. **Ramesh Athe**, Visweswara Rao. *Kendall's Coefficient of Concordance*. BIOSTATISTICS: A manual of Statistical Methods for Use in Health, Nutrition and Anthropology. Chapter 46(ii); Pp: 758-764.
6. Visweswara Rao, Balakrishna, **Ramesh Athe**. *Nutritional epidemiology: some findings*. BIOSTATISTICS: A manual of Statistical Methods for Use in Health, Nutrition and Anthropology. Chapter 49; Pp: 788-801.

Published abstracts in scientific proceedings in international and national conferences

International

1. **Ramesh Athe** et al. "Meta-Analysis Approach on Iron Fortification and its Effect on Pregnancy and its Outcome through Randomized, Controlled Trials"- Paper accepted for upcoming international conference on Health Technology Assessment Asia held from 24th to 26th April, 2019.
2. **Ramesh Athe**. Data Analysis at three levels. A Meta-analysis approach on Vitamin A-fortified and its Effect on Retinol Concentration in Children. International Conference on Vectors and vectors borne, 2019, ICMR-RMRC, Bhubaneswar, held from 21st to 25th Jan, 2019.
3. **Ramesh Athe**. Data analysis at three levels-An evidence based approach on risk factors associated with dengue fatality under 10 year children. International Conference on vectors and vector borne disease, 2019, RMRC, Bhubaneswar, India.
4. **Ramesh Athe**, Vishnu Vardhana Rao Mendu, Madhavan Nair Krishnapillai. Systematic Review and Meta-Analysis Approach on Vitamin A Fortified Foods and its Effect on Retinol Concentration in Children. International Conference on socio-economic challenges and sustainable solutions, 2013, University of Hyderabad, India.
5. **Ramesh Athe**, Vishnu Vardhana Rao Mendu, Madhavan Nair Krishnapillai. Analysing the Health Benefits by Means of the Disability Adjusted Life Years (Daly's) Approach: Focusing on Iron Fortified Foods. International Conference on Role of Statistics in the advancement of science and technology, 2013, University of Pune, India.

National

1. **Ramesh Athe**. Data Analysis at three levels. A Meta-analysis approach on Fe-fortified foods during pregnancy of randomized, controlled trials. 35th Annual Conference of ISMS, 2017, Sanjay Gandhi Post Graduate Institute of Medical Science (SGPGIMS), India.
2. **Ramesh Athe**. Impact of fortified foods on micronutrient deficiencies in children- A systematic review and meta-analysis of randomized, controlled trials. 19th Annual Conference of SSCA, 2017, Statistics Division, SKUAST University, Jammu, India.
3. **Ramesh Athe**, Vishnu Vardhana Rao Mendu, Madhavan Nair Krishnapillai. Impact of iron fortified foods on haemoglobin concentration during pregnancy and pregnancy outcomes: A systematic review and meta-analysis. 30th Annual Conference of ISMS, 2012, Dayanand Medical College and Hospital (DMCH), India.
4. **Ramesh Athe**, Vishnu Vardhana Rao Mendu, Madhavan Nair Krishnapillai. Effect of Iron Fortified Foods on Haemoglobin Concentration in Children (<10 Yrs.): A Systematic Review and Meta-Regression Analysis. 43rd National Conference of NSI (Nutrition Society of India), 2011, National Institute of Nutrition (NIN), Hyderabad, India.
5. **Ramesh Athe**, Vishnu Vardhana Rao Mendu, Madhavan Nair Krishnapillai. Impact of Iron Fortification on Haemoglobin Response in Children: A Systematic Review and Meta-Regression Analysis. 28th Annual Conference of ISMS 2010, National Institute of Health and family Welfare (NIHFW), New Delhi, India.
6. **Ramesh Athe**, Vishnu Vardhana Rao Mendu, N Bala Krishna, Madhavan Nair Krishnapillai. The impact of Iron Fortified Foods on Bio-chemical and Functional Outcome Variables: A Meta-Analysis. 27th Annual Conference of ISMS (Indian Society for Medical Statistics), 2009, Banaras Hindu University, India.

Workshops

1. Workshop on “Health Technology Assessment” at Department of Health Research, MoHFW, IRCS, Red Cross Road, New Delhi, India, during May 20th to 24th, 2019.
2. Workshop on “Economic Evaluations” at George institute of global health, New Delhi, India, during April 11th to 12th, 2019.
3. Workshop on “Health Technology Assessment” at Department of Health Research, MoHFW, IRCS, Red Cross Road, New Delhi, India, during April 8th to 10th, 2019.
4. Workshop on “Strengthening and challenging on nutritional status of Odisha”, PHFI, IIPH, India, on 6th Feb, 2019.
5. Workshop on “Conclave on Status, Challenges and Way-forward: A Review of Childhood Diarrheal Disease in Odisha”, ICMR-RMRC, India, on 22nd Dec, 2018.
6. Workshop on “Principles and practice of clinical research” at Regional Medical Research Centre, ICMR, Bhubaneswar, India, during Nov 13th to 14th, 2018.
7. Workshop on “Health Technology Assessment” at Department of Health Research, MoHFW, IRCS, Red Cross Road, New Delhi, India, during Oct 29th to Nov 4th, 2018.
8. Workshop on “Outreach programme for community awareness” 4th India International Science Festival, ICMR_RMRC, India during 22-23rd Sep, 2018.
9. Workshop on “Health Technology Assessment” at Department of Health Research, MoHFW, IRCS, Red Cross Road, New Delhi, India, during June 4th to 6th, 2018.
10. Workshop on “Biostatistics and its applications in Biomedical Research” at National Institute of Nutrition, ICMR, Hyderabad, India, during March 24th to 28th, 2014.
11. Workshop on “Clinical trials and meta-analysis” at Christian Medical College, Vellore, Tamil Nadu, India, during May 31st to June 4th, 2010.

Knowledge of Statistical, Computational Packages, Programming and Databases

SPSS, Review Manager, Comprehensive Meta-Analysis, WHO Anthro, Profile Software, R, SAS, Graph Pad Prism, Epi info, MedCalc, dBase, FoxPro, Fortran, C, C++, and TORA.

Administrative Work

1. Member of Anti Ragging Committee (Sep, 2016 to June, 2018)
2. Member of Academic Programmes Committee (May, 2017-June, 2018)

Mentoring Students’ Projects

2016-17

1. Meta-Analysis Approach on Iron Fortified Foods and its Effect on Haemoglobin Concentration in Pregnant Women.
2. Association of Dietary Habits and Body Mass Index among Tezpur University Students in India: A Pilot Study.
3. Statistical Analysis Approach on Youngstar’s Purchasing Pattern/Behaviours of University Students-A Prospective Study.

2016-17

4. Effect of Vitamin D fortified /supplementation foods on children and infants: A Systematic Review.
5. Principle Component Analysis: An application of IPL cricket data (2017).
6. Impact of Zinc fortified/supplementation foods during pregnancy and infants: A Meta-Analysis.

Professional Memberships

1. International: Bernoulli Society (International Statistical Institute): 15608
2. National: Indian Society for Medical Statistics (ISMS): 200911/LM
3. National: Society of Statistics, Computers and Applications: 32833-39/LM
4. Indian Statistical Institute Society: 0/9525-2018/OM

References

1. **Mendu Vishnu Vardhana Rao**, Director & Scientist G, National Institute of Medical Statistics, Indian Council of Medical Research, Ansari Nagar, New Delhi, India-110029.
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2. **Holendro Singh Ch**, Assistant Professor, Indian Statistical Institute, North East Centre, Tezpur, Assam, India-784028.
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3. **Hara Gopal VV**, Professor, Chairman & BOS, Department of Statistics, Osmania University, Hyderabad, Telangana, India-500007.
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4. **Visweswara Rao K**, Head, Senior Deputy Director & Scientist F (Retd.), Biostatistics, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad, India-500007.
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