Dr. Md. Irphan Ahamed

Academic Qualification: B.Sc (Hons) Mathematics, Aligarh Muslim University, Aligarh, UP

M.Sc Mathematics, Aligarh Muslim University, Aligarh, UP

PhD in Statistics, North-Eastern Hill University, Shillong-793022

Research Contributions in PhD:

Theoretical Sample Survey: Development of various methods of stratification in Stratified Sampling; practical Applications

Post PhD research contributions:

Theoretical works on Cluster Sampling, Probability Proportional to size sampling, and practical implementation, Linear Algebra, Non-linear Regression, etc.

Development of various methods of estimating life expectancy at birth in demography, methods of population projection and life expectancy at birth projection (construction and implementation of non-linear regression; implementation of Bayesian Paradigm).

Empirical Studies: Evaluation of Public Distribution System in Nagaland.

Research Publications:

Sl. No.	Name of the Authors	Title of the paper/Book	Name of the Journal/Publisher	Indexing	ISSN No.	Year/ Vol./PP.
1	B. K. Gupt and **M. I. Ahamed**	Optimum stratification for a generalized auxiliary variable proportional allocation under a superpopulation model	Communication in Statistics- Theory and Methods Publisher: Taylor & Francis	Scopus, Springer, Web of Science, SCIE, UGC-CARE list	Print: 0361-0926 Online: 1532-415X	Year: 2022 Vol. 51, (10) PP. 3269-3284
2	B. K. Gupt and **M. I. Ahamed**	Construction of strata for a model-based allocation under a superpopulation model	Journal of Statistical Theory and Applications Publisher: Atlantis Press	Scopus, Web of Science, SCIE, UGC-CARE list	1538-7887	Year-2021 Vol. 20(1) pp. 46-60
3	**M. I. Ahamed**, B. K. Gupt and M. Phukon	Methods of stratification for a generalised auxiliary variable optimum allocation	Mathematics and Statistics Publisher: Horizon Research Publishing Cooperation	Scopus, UGC-CARE list	2332-2144	Year-2021 Vol.9(5), pp. 617-629
4	B. K. Gupt, F. Lalthlamuanpuii and **M. I. Ahamed**	Optimum cluster size under a superpopulation model	Advances and Applications in Statistics Publisher: Pushpa Publishing House	Web of Science, SCIE, UGC-CARE list	0972-3617	Year-2021 Vol.70(1), pp. 11-30
	B. K. Gupt, F.	Choice of strata	Mathematics and			Year-2021

5	Lalthlamuanpuii and **M. I. Ahamed**	boundaries for allocation proportional to stratum cluster totals in stratified cluster sampling	Statistics Publisher: Horizon Research Publishing Cooperation	Scopus, UGC-CARE list	2332-2144	Vol.9(5), pp. 697-710
6	B. K. Gupt, **M. I. Ahamed** and M. Phukon	Optimum stratification for an auxiliary variable optimum allocation under a superpopulation model	Advances and Applications in Statistics Publisher: Pushpa Publishing House	Web of Science, SCIE, UGC-CARE list	0972-3617	Year-2021 Vol. 67(1) pp. 1-20
7	M. Phukon and **M.I. Ahamed**	A few methods in estimating life expectancy	Journal of Scientific Research Publisher: University of Rajshahi, Bangladesh	UGC-CARE list	2070-0237 e-ISSN 2070-0245	Year-2019 Vol. 11(3) pp. 321-338
8	M. Phukon, **M. I. Ahamed**, B. K. Gupt and V. Kumar	A method of projection of life expectancy at birth comprising techniques of non-linear regression and MCMC under Bayesian approach	Advances and Applications in Statistics Publisher: Pushpa Publishing House	Web of Science, SCIE, UGC-CARE list	0972-3617	Year-2021 Vol. 70(2) pp. 169-199
9	B. K. Gupt and **M. I. Ahamed**	A few methods of stratification for allocation proportional to stratum total under a superpopulation model	Statistics and Applications Publisher: Society of Statistics, Computer and Applications	Web of Science, SCIE, UGC-CARE list	2452-7395	Year-2022 Vol. 20(1) pp. 181-192
10	B. K. Gupt, M. Swer, **M. I. Ahamed**, K. H. Singh	Optimum stratification for stratified PPSWR sampling design under a model based allocation	Journal of Mathematical and Computational Science Publisher: SCIK Publishing Cooperation	Scopus, UGC-CARE list	1927-5307	Year-2021 Vol. 11(6) 8342-8353
11	E. Ezung and **M. I. Ahamed**	A Study of Performance of Public Distribution System in Nagaland	IASSI-Quarterly: Contributions to Indian Social Science Publisher: Indian Association of Social Science Institutions	UGC-CARE list	0970-9061 e-ISSN: 0974-018X	Year-2021 Vol. 40(1) pp. 120-140
12	**M. I. Ahamed**, V. Kumar, B. K. Gupt and M. Phukon	A new population growth model: population projection of India and some Indian states	Journal of Critical Reviews Publisher: Innovare Academics Sciences Pvt. Ltd	Peer-Reviewed	2394-5125	Year-2021 Vol. 8(2) pp. 631-645
13	**M. I. Ahamed**, R. Singh and M. Phukon	A procedure for estimating a few demographic indicators of Assam state and its districts	International Journal of Statistics and Applied Mathematics	Google Scholar, Ulrichs Web	2456-1452	Year-2019 Vol. 4(5) pp. 123-129
14	B. K. Gupt, M. Swer, **M. I. Ahamed**, B. K.	Stratification methods for an auxiliary variable model-based allocation	Mathematics and Statistics Publisher: Horizon	Scopus, UGC-CARE list	2332-2144	Year-2022 Vol.10(1), pp. 15-24

	Singh and K. H. Singh	under a superpopulation model	Research Publishing Cooperation			
15	**M. I. Ahamed** and M. Phukon	A mathematical model for projection of life expectancy at birth using early childhood survivorship probabilities	Far East Journal of Theoretical Statistics Publisher: Pushpa Publishing House	Mendeley (Elsevier Database) Pablons, ProQuest (Clarivate Analytics: Web of Science)	ISSN: 0972-0863	Year- 2022 Vol. 64 pp. 45-68
16	B. K. Gupt, M. Swer, **Md. I. Ahamed,** B. K. Singh	Optimum stratification for two study variables for allocation proportional to auxiliary variable stratum total	Advances and Applications in Statistics Publisher: Pushpa Publishing House	Web of Science, SCIE, UGC-CARE list	0972-3617	Year-2022 Vol. 83 pp. 83-106

WORKING EXPERIENCE

  i) Faculty in Mathematics, Rayburn College, Churachandpur, Manipur 1997 to 2000

 ii) Faculty in Mathematics, Mount Everest College, Senapati, Manipur, 2000 to 2006

iii) Assistant Professor in Mathematics, Umshyrpi College, Shillong, 2007 onwards.

iv) Vice Principal cum IQAC Coordinator, Umshyrpi College, from 2016 to 22nd May 2023.

v) Principal, Umshyrpi College since 23rd May 2023.

PARTICIPATED WORKSHOPS, INTERNATIONAL/NATIONAL CONFERENCES AND SHORT-TERM COURSE:

i) Workshop on Combinatorial Mathematics with Statistical Applications in Health & Related Sciences, December 30, 2012. Gauhati University, Dept. of Statistics

ii) Workshop on Censusinfo Software and Data Dissemination of Census 2011, March 7, 2014 NEHU, Shillong, Dept. of Statistics

iii) Workshop on Statistical Computing and Its Applications, November 29 - December 1, 2012, NEHU, Shillong, Dept. of Statistics

iv) Short-Term Course in MATLAB-I, NEHU, Shillong, University Grant Commission (UGC), Academic Staff College during July 22-27, 2013.

PAPERS PRESENTED IN INTERNATIONAL/NATIONAL SEMINARS/WEBINARS:

i) Ahamed. M. I. (2021). Projection of life expectancy at birth by developing a few mathematical models comprising some demographic indicators, Presented at The fourth International

Conference on Mathematical Modeling, Applied Analysis and Computation-2021 (ICMMAAC-21), organised by Department of Mathematics, Faculty of Science, JECRC University, Jaipur (Raj.), India, 5th -7th August, 2021.

ii) Ahamed. M. I. (2021). Construction of strata in cluster sampling with clusters of equal size, Presented at International Webinar on Foundations for Contemporary Mathematical Research, 8th -10th November, 2021, organised by Department of Mathematics, Manipur University, Canchipur, Imphal, Manipur.

INVITED TALK DELIVERED:

Topic: Recent Advance in Application of Sampling Techniques

One day National Webinar organized by the Dept. of Statistics, Patna Women's College, Autonomous Patna University, on 26th August, 2022.

AWARDS/RECOGNITION:

i) Best Researcher Award, awarded by VDGOOD in International Scientist Awards on Engineering, Science and Medicine 11 and 12 Feb-2021, Pondicherry, India

ii) Favorite/Popular Teacher Award, awarded by The Institute of Computer Accountants (A unit of ICA InfoTech (p) Ltd.) 23, Upper Lachaumiere, Shillong-793001.