

Dr.Arif Muhammad

Curriculum Vitae

BREIF BIO

Arif Muhammad holds a doctorate degree in Statistics with a core specialization in Data Envelopment Analysis and Operation Research from Pondicherry Central University-India. He has developed various mathematical models to evaluate different types of efficiency measurements of various networking DEA models. In addition, he has employed different models on various real-life problems to reflect their technical effectiveness. The thesis is available on Shodhganga-Inflibnet and the university library with the title Efficiency Evaluation through Radial and non-radial measures in Networking Processes. His papers have appeared in very reputable journals. He has presented his work at many international conferences held within India as well as outside India. He got a grant from DST-SERB for Presenting a paper and attending a workshop at an international conference in Prague, Czech Republic. Further, he has visited several other European countries to meet people with the same research area to explore more knowledge about the research area. He was the recipient of a national fellowship provided by UGC for pursuing his doctoral studies. He is having almost 5 years of teaching experience in different colleges of J&K affiliated with Kashmir University, Sharda University and NCDC Delhi. He has also qualified UGC NET in the subject of Population Studies. At present, he is working as an **Assistant Professor** (contractual) in Government degree college kulgam-j

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Carrier Objective

Looking for an opportunity to work on an important research work/teaching in an institution that provides professional development, interesting experiences and personal growth.

To get associated with a progressive organization that gives me scope to apply my knowledge and analytical skills; Contribute effectively to the success of the organization and also further improve my personal, professional, and technical skills. As a self-motivated and responsible person, I believe in one sentence, "The riskiest thing is to take no risks".

Teaching & Research Experience

- Sep 2024 to Assistant professor (Contractual), Government Degree college kulgam, till date Jammu and Kashmir
- August 2023 **Statistician cum assistant professor**, IDSP, National Centre for Disease to March Control NCDC, New Delhi, India 2024
- January 2023 Assistant Professor, Department of Mathematics, Sharda School of Basic to july 2023 Science & Research, Sharda University, Greater Noida-201310, India
- July 2018 to Assistant Professor, Amar singh college, Cluster University Srinagar, Jammu July-2019 and Kashmir, Srinagar- 190008, India
- March-2020 **Assistant Professor**, Amar singh college, Cluster University Srinagar , Jammu to Dec 2020 and Kashmir, Srinagar- 190008, India
- july 2021 to **Assistant Professor**, Govt Degree college Shopian , Jammu and Kashmir, Dec 2021 Shopian- 192303, India

Education in (Regular/Full-Time)

- 9th Sep, 2014 **Ph.D in Statistics**, Department of Statistics, Ramanujan School of Mathe- 30th April, matical Sciences, Pondicherry Central University, Pondicherry 605014, India
 2018 (Completed 30Th April, 2018)
 - 2012 2014 NET (population studies), UGC, Passed April 2017
 - 2012 2014 Masters in Statistics , University of Kashmir, Srinagar 190006, J&K, India, Percentage 77%, Passed 3nd June 2014
 - 2008 2011 **UG**, *University of Kashmir*, Srinagar 190006, J&K, India Passed 17^{Th} August 2011
- Annual 2007 **12th**, Jammu and Kashmir Board of School Education, Srinagar 190006, J&K, India Passed - 16^{Th} October 2008

Diploma

2015 - 2016 Post Graduate Diploma in Computer Applications, Pondicherry Central University, Pondicherry - 605014, India, Percentage 70%, Passed - May 2016

Certificate Course

- 2014 2015 Certificate Course in ARABIC, Pondicherry Central University, Pondicherry 605014, India, Distinction with first position, Passed May 2015
 - 2008 Certificate Course on Computer Concepts, $ASCENT\ IMT$, Ministry of Communication and Information Technology, Government of India, Pulwama, Srinagar, Passed $24^{Th}\ Nov\ 2009$

Technical Skill

Programming C/C++, SAS

Language

Statistical SPSS, Excel, R-Package, STATA, JASP, STATA, Python

Software

Operations DEA Excel Solver, DEA-Frontier, DEAP 2.1, Frontier 4.1, MAXDEA, TORA,

Research COIN/OR and lp_solve.

Software

Database Bloomberg, CMIE, RBI and Kaggle

Development Lingo, VBI, Microsoft Visual Studio 2010 and 2012, Matlab

Tools

Areas of Expertise

Concepts Descriptive Statistics, Inferential Statistics, Biostatistics, Probability theory and Probability Distribution, Sampling Techniques, Design of Experiment, Operation Research, Data Envelopment Analysis, Stochastic Process & Programming, Linear Algebra, and Demography

Projects

Mobile Networking Services in University of Kashmir

Description This Project was based on the estimation of the use of mobile networking service by the student of the University of Kashmir Regarding the mobile networking services

Software Excel and SPSS
Role Group Leader

Evaluation of Banking Performance-A Study on Data Envelopment Analysis

Description In this Project, Banking data set based on the ownership classification for 6 year period has been taken and the main objective of this project is to obtain the efficiency level of banks which is identifying the efficient bank and benchmarking bank for inefficient bank

Software DEA-Frontier, Frontier 4.1 and DEA Excel Solver Role Requirement Modelling Developer, Analysis, Designer

Extra-Curricular Activities and Achievements

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2011 Winner of the Annual Road Race in the Government Degree College Pulwama, Srinagar-192303, J&K, India

2011 Participated in Annual Cycle Race in the Government Degree College Pulwama, Srinagar-192303, J&K, India

- 2013 Winner of the inter University Tournament held at University of Kashmir,190006, J&K, India
- 2016 Participated in Annual Road Race in Pondicherry University, Puducherry-605014, India
- 2017 Winner of the inter Department Tournament at Pondicherry University, Puducherry-605014, India

Publications

- Ganaie, R. A., Rather, A. A., Saraja, D. V., Alam, M., Ahmad, A., Tali, A. M., & Elemary,
 B. R. (2023). EXPONENTIATED ADYA DISTRIBUTION: PROPERTIES AND APPLICATIONS. Reliability: Theory & Applications, 18(2 (73)), 39-49.
- Arif Muhammad Tali (2023). DEA Efficiency Evaluation through Joint Performance and Multi-objective Approach. International Journal of Modern Mathematical sciences, 20(1), 1-11
- Dar, Q. F., Tali, A. M., Hyo, A. Y., Dar, G. F., Bhat, S. A., Bhat, Y. H. (2021). Fuzzy Data envelopment Analysis with SBM using α-levelFuzzyApproach.PakistanJournalofStatisticsandOperationRef 501.
- Muhammad, A., Rao, T., & Farooq, Q. (2018). DEA Window Analysis with a slack-based measure of Efficiency in Indian Cement Industry. Statistics, Optimization & Information Computing, 6(2), 292-302.
- Tali, A. M., Padi, T. R., & Dar, Q. F. (2016). Slack-based Measures of Efficiency in Two-stage Process: An Approach Based on Data Envelopment Analysis with Double Frontiers. Int. J Latest Trends Fin. Eco. Sc. Vol, 6(3), 1194.
- Shah, A., Tali, A., & Farooq, Q. (2018). Beta through the prism of wavelets. Financial Innovation, 4(1), 18.
- Dar, Q. F., Padi, T. R., & Tali, A. M. (2016). Mixed input and output orientations of data envelopment analysis with linear fractional programming and least distance measures. Statistics, Optimization & Information Computing, 4(4), 326-341.
- Rashid, U., Anwar, T. M., Arif, M., & Ahmad, M. (2009). Optimization of alkaline transesterification of rice bran oil for biodiesel production using response surface methodology. Journal of Chemical Technology Biotechnology, 84(9), 1364-1370.
- Dar, Q. F., Padi, T. R., & Tali, A. M. (2017). Decision support system through data envelopment analysis & stochastic frontier analysis. International Journal of modern mathematical sciences, 15(1), 1-13.
- o Dar, Q. F., Pad, T. R., Tali, A. M., Hamid, Y., & Danish, F. (2017). Data Envelopment Analysis with Sensitive Analysis and Super-efficiency in Indian Banking Sector. International Journal of Data Envelopment Analysis, 5(2), 1193-1206.

- Tali, A. M., Padi, T. R., & Dar, Q. F. (2016). DEA Double Frontier in Two-Stage Processes with Slack-Based Measure. Int. J. Modern Mgmt. Sci, 5(1), 23-36.
- Tali, A. M., Padi, T. R., & Dar, Q. F. (2016). Slack-based Measures of Efficiency in Two-stage Process: An Approach Based on Data Envelopment Analysis with Double Frontiers. Int. J Latest Trends Fin. Eco. Sc. Vol, 6(3), 1194.

Paper Under Review

- Mehraj Ahmad, Arif Muhammad, Ishfaq Farooq, and Aafaq Rather, "Optimization
 of energy efficiency and investment cost of apple production systems in western Himalayas
 region for sustainable development", Under review in Journal of "Natural Resources Forum".
- Arif Muhammad Tali, & Sayar Ahmad Taley, "Efficiency Analysis and Ranking of Top 20 Indian Private Hospitals using Slack-based Data Envelopment Analysis", Under Review in Journal of Health Management. (July 2024)
- Arif Muhammad Tali, "Non-radial DEA models in double frontiers for Series Type Two-Stage Production processes", Under Review in OPSEARCH. (November 2024) in Contemporary Mathematics
- Arif Muhammad, Aafaq Rather, and Sayed Aadil, A new intermediate network data envelopment analysis model with Robust optimization; An Interactive Approach. Under Review in Statistics, Optimization, and Information Computing. (November 2024)

Paper Presented

- Non-radial DEA model in Series type two-Stage production processes presented in "15th International Conference on Data Envelopment Analysis" at University of Ekonomatrika, Prague, Czech Republic, from Jun 26-29, 2017.
- A slack-based measure of efficiency in Data Envelopment Analysis: An approach to Indian cement industry presented at "National Conference on recent trends in mathematical analysis & its applications" organized by Department of mathematics, pondicherry university n February 25-26, 2016.
- Two-Stage Slack-Based Model in Data Envelopment analysis on "Statistics and Optimization" in conjunction with XXXVI- Annual Convention of (ISPS) Organized by Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh-India, from December 17-19, 2016.
- Evaluating stage efficiency with weight priority in two-stage network DEA model on "The 29th international conference of Jangjeon mathematical society" organized by Department of mathematics, pondicherry university n August 08-10, 2016.
- DEA Window Analysis for Efficiencies Caparison with Reference to Indian Cement Industry "Analytics in Operational Research" Organized by Operational Research Society of India at Birla Institute of Management Technology, Greater Noida New Delhi, from December 12-14, 2016.
- Data Envelopment Analysis in three-stage Networking structure with slack based measure (SBM) on "Analytics in Operational Research" Organized by Operational Research Society of

- India at Birla Institute of Management Technology, Greater Noida New Delhi, from December 12-14, 2016.
- Decision Support System through Data Envelopment Analysis & Stochastic Frontier Analysis on "Recent Development in Mathematical Analysis and Its Applications" Organized by Department of Mathematics, at Ramanujan School of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India, from February 25-26, 2016.
- Super efficiency in fuzzy data envelopment analysis (FDEA) with high-frequency data in the DEA2015:15th International Conference on Data Envelopment Analysis organized by iDEAs at the University of Economics, Prague, Czech Republic, from Jun 26-29, 2017.
- Fuzzy Analysis Approaches in DEA & SFA on "Statistics and Optimization" in conjunction with XXXVI-Annual Convention of (ISPS) Organized by Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh-India, from December 17-19, 2016.
- Maltiscale Bata Estimation through Wavelet at International Conference on "Capital Market and Finance" Organized by the Department of Economics and Centre for Research at ST.Teresa's Collage Ernaklum Kerala, India. From 6th-7th January-2017.
- National Conference on "Emerging Trends in Statistical Research: Issues and Challenges" Organized by Department of Statistics Ramanujan School Of Mathematical Science, Pondicherry University Puducherry during February 16-17, 2015.
- International Conference on "Operations Research for Data Analysis and Decision Analysis" with the 46th Annual Convention of Operation Research Society of India (ORSI) Organized by (ORSI) In the Department of Statistics University of Kashmir, Srinagar during October 19-23, 2014.
- Fuzzy Data Envelopment Analysis in three Stage networking structure on the National Conference on "Recent Trend in Pure and Applied Mathematics", Organized by Kashmir Mathematical Society-KMS at the Department of Mathematics, University of Kashmir, srinager-J& K, in Dec 19, 2017.
- An Algorithm for Evaluating the Performance of banking Sector in India using a Stochastic Data Envelopment Analysis an International Conference on "Changing Paradigms and Emerging Challenges in Statistical Sciences" in Conjunction with Bi-Decennial Convention Society of Statistics, Computer and Application at the Department of Statistics Ramanujan School Of Mathematical Science, Pondicherry University Puducherry during Jan 29-31, 2018.

Faculty Development Programmes

- 27-31th May Completed a Five days Online Faculty Development Program on Data Analysis 2023 using R Studio organised by Intellectual Manch from May 27 , 2023, to May 31 , 2023.
 - 24-25th **Session Chair** in the "International Conference on Applied & Industrial March 2023 Mathematics", Organized by Department of Mathematics, Sharda University, Greater Noida-India

Workshops and Seminars

24-25th **Session Chair** in the "International Conference on Applied & Industrial March 2023 Mathematics", Organized by Department of Mathematics, Sharda University, Greater Noida-India

- 24-25th Two Days workshop on " ${f Data}$ Envelopment Analysis" organized by DEA
- June 2017 society at Prague Czech Republic
- 23th June One day seminar on "tutorials on DEA organized by DEA society at **Vienna** 2017 **Austria**.
- 15th Jun to **26 Days** workshop on "Matrix Methods and Fractional Calculus" Or-10th Jul 2015 ganized by the Department of Science and Technology Government of India, New Delhi at Centre for Mathematical and Statistical Sciences Peechi Campus-(KFRI) Thissur Kerala-India.
- 30th May to **Ten days** Workshop on "**Productive Efficiency: Theory and Practice**" 8th Jun 2016 Organized by Global Initiative of Academic Networks, MHRD at Indian Institute of Technology Bhubaneswar-India.
- 17th to 23th Seven days national workshop on "Introduction to Research, Parametric Oct 2016 and Non-Parametric Regression Classification and SEM" Organized by Department of Commerce, School of Management, Pondicherry University, Kalapet Pondicherry-India.
- Dec 11, 2016 International Workshop on "**Data Envelopment Analysis**" Organized by Operational Research Society of India at Birla Institute of Management Technology, Greater Noida New Delhi, India.
- Oct 28, 2015 One day Workshop on "URKUND: Plagiarism detection tool provided by INFLIBNET" Organized by Ananda Rangapillai Library, Pondicherry University, India.
 - 17th Mar International workshop on "Intelligent Data Analysis Techniques" Orga-2015 nized by Indian- TAIWAN Cooperation Sponsored by (IWIDAT) in the Department of Mathematical, Pondicherry University, Kalapet Pondicherry-India
 - 15th Jul One Day National Workshop on "**Data Science and Big Data Analysis**" 2016 Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
 - 23rd Feb Seminar on "Role of Official Statistics in India Awareness, Impact & 2017 Opportunities" Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
 - 18th Jul Research Methodology Seminar on "Odds Ratio and Singular Values- A
 2016 Contrast:(Applications to population Genetics of Asthma)" Organized
 by Department of Statistics, Ramanujan School Of Mathematical Science,
 Pondicherry University, Kalapet Pondicherry-India.
 - 18th Jul One Day National Workshop on "Wonderful World of Data Mining and 2016 Statistical Genetics" Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
 - 30th-31st Two Day National Workshop on "Stochastic Modelling and Optimiza-Jan 2018 tion Methods" Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.

30th-31st Two Day National Workshop on "Stochastic Modelling and Optimiza-

Jan 2018 **tion Methods**" Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.

10-11 Feb Two Day Short Term Training Program on "Stochastic Calculas" Orga-

2018 nized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.

4th May One Day Workshop on Polycystic Ovary syndrom (PCOS), Under ICMR-PCOS

2019 Task Force Study at SKIMS Srinagar-India.

Associations

International Journal of Data Envelopment Analysis

Designation Reviewer

Pakistan Journal of Statistics and Operation Research(PJSOR)

Designation Reviewer

Pakistan Journal of Statistics(PJS)

Designation Reviewer

International Journal of Statistics, Optimization & Information Computing

Designation Reviewer

Operations Research Society of India (ORSI)

Designation Member

International Data Envelopment Analysis Society (iDEAs)

Designation Member

Kashmir Mathematical Society-KMS

Designation Member

Indian Society for Probability & Statistics(ISPS)

Designation Member

Personal Information

Date of Birth 25/03/1990

Birth Place Nildoora Shopian, J&K

Gender Male

Marital Single

Status

Nationality Indian

Hobbies Novels, Traveling, Web surfing, Barbecuing, Motorcycling

Languages English, Urdu, Kashmiri, Hindi

Address for Communication

Name: Dr. Arif Muhammad Tali

S/O: Gh Muhammad Tali

Address: Nildoora Herman,

Shopian Srinagar Kashmir,

Jammu and Kashmir-192303, India.

Email ID: 1. arif9dea@gmail.com, 2. aarifmuhammad25@gmail.com

Phone: +91-6005779215

Skype ID: live:arif9dea

Homepage https://arif9dea6.wixsite.com/mysite

Key Skills

Writing Author of more than 5 articles dealing with social, scientific and economic issues appeared in reputed newspapers like The Greater Kashmir, Kashmir Dispatch, Rising Kashmir, Indiaresisits.

Leadership Transformational Leader certified by Dale Carnegie and Associates.

Work Citations

Google 68

Scholar

Citations

H.Index 5

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Google Scholar: https://scholar.google.com/citations?hl=en&user=XPOmelUAAAAJ

References

- 1. **Prof.** Tirupathi Rao Padi, Professor, Dept.of Statistics, Pondicherry University Puducherry-605014,India. Email: drtrpadi@gmail.com +91-948649241
- Dr. Bilal Ahmad Para Assistant Professor Dept. of Mathematical Sciences, Islamic University of Science and Technology, Awantipora, Jammu and Kashmir-192122, India. Email:parabilal@gmail.com +91(0) 7006384470
- 3. **Prof.** Biresh K Sahoo Professor Dept. of Economics Xavier Institute of Management Xavier University, Bhubaneswar-75013, India. Email: biresh@ximb.ac.in +91(0)6746647735
- 4. **Prof. Vincent Charles** Professor Professor of Management Science, University of Buckingham Buckingham-UK. Email: v.charles@buckingham.ac.uk (44)7491226227

Declaration

I hereby declare that the above information is true and correct to my knowledge. Thank you for your time and Consideration.

Yours sincerely

Dr. Arif Muhammad Tali Assistant Professor (Contract) Email: arif9dea@gmail.com Contact: +91-600577925