



Dr. Arif Muhammad

Curriculum Vitae

BREIF BIO

Arif Muhammad holds doctorate degree in Statistics with core specialization in Data Envelopment Analysis and Operation Research from the Pondicherry Central University-India. His research work consists in contributing to his research area theoretically more than analytically. He has developed various mathematical models in the form of linear programming problems to evaluate different types of efficiency measurements of various profit as well as non-profit organizations. In the later context, he has employed different models on various real life problems to reflect their technical effectiveness. The thesis is available on Shodhganga-Inflibnet and university library with title ***Efficiency Evaluation through Radial and non-radial measures in Networking Processes***. His papers have been appeared in very reputed journals. He has presented his work in many international conferences held within India as well as outside India. He got the grant from DST-SERB for attending an international conference and workshop at Prague Czech Republic. Further, he has visited several other places in Europe for the purpose of gain in his research area. He was the recipient of national fellowship provided by UGC for perusing his doctoral studies. He is having almost **3 years of teaching experience** in different colleges of J&K affiliated with Kashmir university. He has also qualified UGC NET in the subject of Population Studies. At present, he is working as Assistant Professor in a college (Govt. Degree College Shopian) affiliated with Kashmir University.

Carrier Objective

Looking for an opportunity to work on an important research work/teaching in an institution which 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; Contributing effectively to the success of the organization and also further improving my personal, professional and technical skills. As a self-motivated and responsible person, I believe on one sentence, "The riskiest thing is to take no risks".

Teaching & Research Experience

- July 2018 to July-2019 **Assistant Professor**, Amar singh college, Cluster University Srinagar , Jammu and Kashmir, Srinagar- 190008, India
- March-2020 to Dec 2020 **Assistant Professor**, Amar singh college, Cluster University Srinagar , Jammu and Kashmir, Srinagar- 190008, India
- july 2021 to Dec 2021 **Assistant Professor**, Govt Degree college Shopian , Jammu and Kashmir, Shopian- 192303, India
- April 2022 to present **Assistant Professor**, Govt Degree college Shopian , Jammu and Kashmir, Shopian- 192303, India

Education in (Regular/Full-Time)

- 9th Sep, 2014 - 30th April, 2018 **Ph.D in Statistics**, Department of Statistics, Ramanujan School of Mathematical Sciences, Pondicherry Central University, Pondicherry - 605014, India (Completed 30th April, 2018)
- 2012 - 2014 **Masters in Statistics** , University of Kashmir, Srinagar - 190006, J&K, India, Percentage 77%, Passed - 3rd June 2014
- 2008 - 2011 **UG**, University of Kashmir, Srinagar - 190006, J&K, India Passed - 17th August 2011
- Annual 2007 **12th**, Jammu and Kashmir Board of School Education, Srinagar - 190006, J&K, India Passed -16th 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 - 24th Nov 2009

Technical Skill

- Programming Language C/C++, Matlab, Pig Latin, LINGO
- Statistical Software SPSS, R-Package, STATA, SAS and Origin
- Operations Research Software DEA Excel Solver, DEA-Frontier, DEAP 2.1, Frontier 4.1 , MAXDEA, TORA, COIN/OR and lp_solve.

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|-------------------|---|
| Database | Bloomberg, CMIE, RBI and Kaggle |
| Development Tools | Lingo, VBI, Microsoft Visual Studio 2010 and 2012, Matlab |

Areas of Expertise

Concepts Data Envelopment Analysis, Stochastic Frontier Analysis, Operation Research, Mathematical Programming, Probability Distribution theory, Statistical inference, Operational Management, Bio statistics, Descriptive Statistics, Sampling Techniques, Stochastic Process & Programming, Design of Experiment, Linear Algebra, Real Analysis and Demography

Projects

Mobile Networking Services in University of Kashmir

Description This Project was based on the estimation 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 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

- 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

- Muhammad, A., Rao, T., & Farooq, Q. (2018). DEA Window Analysis with slack-based measure of Efficiency in Indian Cement Industry. Statistics, Optimization & Information Computing, 6(2), 292-302.

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- 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.
- Dar, Q. F., Hyo, A. Y., Dar, G. F., Bhat, S. A., Tali, A. M., & Bhat, Y. H. (2019). Fuzzy Data envelopment Analysis with SBM using α -level Fuzzy Approach. *Pakistan Journal of Statistics and Operation Research*, 15(2), 481-501.
- 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.
- 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.
- 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.

Paper Under Reviewer

- **Arif Muhammad Tali**, "Non-radial DEA models in double frontiers for Series Type Two-Stage Production processes", **Communicated** to OPSEARCH Published in Association with Operational Research Society of India (2021).

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.
- *Multiscale 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 Ernakulum 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 Podicherry during February 16-17, 2015.
- International Conference on "Operations Research for Data Analytics 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 Indian 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 Podicherry during Jan 29-31, 2018.

Workshops and Seminars

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| 24-25th June 2017 | Two Days workshop on " Data Envelopment Analysis " organized by DEA society at Prague Czech Republic |
| 23th June 2017 | One day seminar on "tutorials on DEA organized by DEA society at Vienna Austria . |
| 15th Jun to 10th Jul 2015 | 26 Days workshop on " Matrix Methods and Fractional Calculus " Organized by 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 8th Jun 2016 | Ten days Workshop on " Productive Efficiency: Theory and Practice " Organized by Global Initiative of Academic Networks, MHRD at Indian Institute of Technology Bhubaneswar-India. |

- 17th to 23th Oct 2016 **Seven days national workshop on "Introduction to Research, Parametric 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 2015 International workshop on **"Intelligent Data Analysis Techniques"** Organized by Indian- TAIWAN Cooperation Sponsored by (IWIDAT) in the Department of Mathematical, Pondicherry University, Kalapet Pondicherry-India
- 15th Jul 2016 One Day National Workshop on **"Data Science and Big Data Analysis"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 23rd Feb 2017 Seminar on **"Role of Official Statistics in India Awareness, Impact & Opportunities"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 18th Jul 2016 Research Methodology Seminar on **"Odds Ratio and Singular Values- A Contrast:(Applications to population Genetics of Asthma)"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 18th Jul 2016 One Day National Workshop on **"Wonderful World of Data Mining and Statistical Genetics"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 30th-31st Jan 2018 Two Day National Workshop on **"Stochastic Modelling and Optimization Methods"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 30th-31st Jan 2018 Two Day National Workshop on **"Stochastic Modelling and Optimization Methods"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 10-11 Feb 2018 Two Day Short Term Training Program on **"Stochastic Calculus"** Organized by Department of Statistics, Ramanujan School Of Mathematical Science, Pondicherry University, Kalapet Pondicherry-India.
- 4th May 2019 One Day Workshop on Polycystic Ovary syndrom (PCOS), Under ICMR-PCOS Task Force Study at SKIMS Srinagar-India.

Associations

International Journal of Data Envelopment Analysis

Designation Reviewer

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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 Nildoorra 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
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 Shopian Srinagar Kashmir,
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--- 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, Indiaresits.

Leadership Transformational Leader certified by Dale Carnegie and Associates.

Work Citations

Citations 61

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=XP0melUAAAAJ>

References

1. **Prof. Tirupathi Rao Padi**, Professor, Dept.of Statistics, Pondicherry University Puducherry-605014,India. Email: drtrpadi@gmail.com +91-948649241
2. **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
3. **Prof. Josef Jablonsky** Professor & Head Dept. of Econometrics University of Economics Prague, Czech Republic. Email: jablon@vse.cz (420)224095403
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

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