

## Curriculum Vitae

### **Dr. Peer Bilal Ahmad (Ph.D.)**

Associate Professor & Head  
Department of Mathematical Sciences,  
Islamic University of Science and Technology (IUST),  
Awantipora, Kashmir, India.  
Mob: (+91) 8803064667  
Email: [bilalahmadpz@gmail.com](mailto:bilalahmadpz@gmail.com)  
[peer.bilal@islamicuniversity.edu.in](mailto:peer.bilal@islamicuniversity.edu.in)  
[peerbilal@yahoo.co.in](mailto:peerbilal@yahoo.co.in)



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### **Research Interests**

Distribution Theory  
Statistical Inference  
Regression Theory  
Bayesian Inference

### **Education**

B.Sc. (1999) Mathematics, Govt. Degree College Anantnag, University of Kashmir.  
M.Sc. (2001) Statistics, University of Kashmir. (**Gold Medalist**).  
M.Phil. (2004) Statistics, University of Kashmir.  
Ph.D. (2008) Statistics, University of Kashmir.

### **Objective:**

To work in an academic environment that offers challenges, utilization of professional skills, involves rational decision-making and promises career growth besides providing quality education and research.

### **Work Experience:**

- (i) Associate Professor w.e.f. **04-03-2022 till date** in Department of Mathematical Sciences, School of Sciences, Islamic University of Science & Technology, Awantipora, Kashmir, J&K, India.  
(ii) Assistant Professor (Selection Grade) w.e.f. 04-03-2019 to 03-03-2022 in Department of Mathematical Sciences, School of Sciences, Islamic University of Science & Technology, Awantipora, Kashmir, J&K, India.  
(iii) Assistant Professor (Sr. Scale) from **04-03-2014 to 03-03-2019** in Department of Mathematical Sciences, School of Sciences, Islamic University of Science & Technology, Awantipora, Kashmir, J&K, India.  
(iv) Assistant Professor from **04-03-2010 to 03-03-2014** in Department of Mathematical Sciences, School of Sciences, Islamic University of Science & Technology, Awantipora, Kashmir, J&K, India.

### **Job Responsibilities:**

- Teaching the subject of Probability & Probability Distributions, Statistical Inference, Statistics, Regression Theory in B.Sc. Actuarial and Financial Mathematics & M.Sc. Statistics Programs.
  - Teaching the subject of Business Mathematics, Business Statistics, Research Methodology in Master of Business Administration (MBA)
  - Setting of Question papers & Evaluation of the Answer Books
  - Administrative work/ Committee work
  - Consultancy work
2. Statistical Assistant from **31-08-2006 to 03-03-2010** (Substantive Basis) in the Department of Economics & Statistics, Planning and Development, J&K Government.

**Job responsibilities:**

- Teaching the subjects of Statistics & Mathematics to trainees ( Statistical Officers, Statistical Assistants , Junior Statistical Assistants)
  - Setting of Question Papers & Evaluation of the Answer Scripts
  - Evaluation of Survey Projects carried out by the trainees.
  - Dealing with the financial tasks of the institute.
  - Handling administrative work of Institute
  - Formulation of Plan Proposals.
3. Contractual Lecturer in the Department of Statistics, University of Kashmir w.e.f. 29-5-2004 to 31-12-2004 (One Academic Session), taught the subjects of Probability & Probability Distributions, Design of Experiments and Reliability to the Post Graduate Students of Statistics. Also involved in the paper setting and evaluation of answer scripts.
4. Contractual Lecturer in Amar Singh College, Srinagar w.e.f. 05-04-2004 to 28-5-2004, taught the subjects of Probability & Probability Distributions, Sampling and Sampling Methods & Design of Experiments to the students of B.Sc. /B.A. Ist, 2nd, 3rd year.
5. Visiting Faculty in Wigan and Leigh College, Srinagar Campus, taught the subject of Business Mathematics & Statistics to P.G. Students of Business Administration.
6. Visiting Faculty in Delhi Business School (DBS), Srinagar/Pulwama Campus, taught the subjects of Business Statistics & Research Methodology (RM) to the students of BBA & MBA.
7. Investigator for National Survey “A Social Scientific Study of Political Opinions and Attitudes” conducted by the ‘Centre for the Study of Developing Societies (CSDS)’, New Delhi.

**Committee Work/ Administrative Work:**

1. Head Department of Mathematical Sciences (w.e.f. January 2024)
2. Director, Directorate of Internal Quality Assurance (DIQA) (w.e.f. Jan 2024)
3. I/C Head Department of Mathematical Sciences (June-2023-December 2023)
4. Dy. Director, Directorate of Internal Quality Assurance (DIQA) (w.e.f. July 2018)
5. Nodal Officer AISHE
6. Nodal Officer Finance, TEQIP-III
7. Coordinator NIRF (2021, 2022, 2023)
8. Coordinator First Year Engineering/Advisory Committee to Council of students
9. Chairman/ member secretary/ member of different university committees like DRC, Board of Research Studies (BoRS), Board of Studies, DPC, Central Disciplinary Committee, CAS Committee, Anti-

Ragging Squad, Verification Committee for Stationary, Printing and Official Aids, Central Purchasing Committee, Central Time Table Committee, Unfair means committee, Monitoring Committee etc.

10. Central Coordinator from IUST for Spoken Tutorial Program, a project of NME-ICT being carried out by IIT Bombay.
11. Nodal Officer, Departmental Internal Quality Assurance Unit (DIQAU).

### **Ongoing Research Projects:**

1. “Statistical Count Modelling of Length of Stay (LOS) of Tourists visiting Jammu and Kashmir and the Factors affecting it” J&K Science Technology & Innovation Council, Department of Science and Technology, Govt. of Jammu and Kashmir.

Role: **Principal Investigator**

Amount: **5.75 Lacs**

2. Promotion of University Research and Scientific Excellence (PURSE). DST, Govt. of India to Islamic University of Science and Technology, Awantipora, Kashmir.

Role: **Co-Principal Investigator**

Amount: **9.76 Crore**

3. “To Study the Novel Role of Cullin- 3 SPOP E3 Ligase mediated immune surveillance in Prostate Cancer by promoting the degradation of Next generation immune checkpoint inhibitor CD73”. SERB-DST.

Role: **Statistician**

Amount: **50.34 Lacs**

### **Research Publications:**

1. Wani, Mohammad Kafeel and Ahmad, Peer Bilal (2024): One-Inflated Zero-Truncated Poisson Distribution: Statistical Properties and Real Life Applications, Annals of Data Sciences <https://doi.org/10.1007/s40745-024-00526-3> §**Corresponding author.**
2. Ahmad, Peer Bilal and Wani, Mohammad Kafeel (2024): New Discrete Distribution For Zero-Inflated Count Data, Reliability: Theory & Applications, 19, 1(77), 717-728. §**Corresponding author.**
3. Jan, Rameesa, T.R. Jan and Ahmad, Peer Bilal (2024): Marshall-Olkin Alpha Power Inverse Lindley Distribution and its Applications, Journal of Modern Applied Statistical Methods, 23(1). <https://doi.org/10.56801/Jmasm.V23.i1.4>
4. Shah, Ishfaq, Bhat, Mohammad Younus, Ahmad, Peer Bilal, Dar, Javid Gani and Pinelas, Sandra (2023): Bounded Inverse-Slashed Pareto Model: Structural Properties and Real-Life Applications, Advances in the Theory of Nonlinear Analysis, 7(3), 14-29. <https://doi.org/10.17762/atnaa.v7.i3.247>
5. Wani, Muneeb Ahmad, Ahmad, Peer Bilal, Para, Bilal Ahmad and Na Elah (2023): A New Regression Model for Count Data with Applications to Health Care Data, International Journal of Data Science and Analytics. <https://doi.org/10.1007/s41060-023-00453-1> §**Corresponding author.**

6. Wani, Mohammad Kafeel and Ahmad, Peer Bilal (2023): Zero-inflated Poisson-Akash distribution for count data with excessive zeros, Journal of the Korean Statistical Society , 52, 647–675. <https://doi.org/10.1007/s42952-023-00216-5> §**Corresponding author**.
7. Ahmad, Peer Bilal and Wani, Mohammad Kafeel (2023): A New Compound Distribution and Its Applications in Over-dispersed Count Data, Annals of Data Sciences. <https://doi.org/10.1007/s40745-023-00478-0>. §**Corresponding author**.
8. Skinder, Zehra, Ahmad, Peer Bilal and Na Elah (2023): A New Zero-Inflated Count Model with Applications in Medical Sciences, Reliability: Theory & Applications, 18, 3(74), 841-855. §**Corresponding author**.
9. Ahmad, Ishfaq S., Jan, Rameesaq, Nirwan, Poonam and Ahmad, Peer Bilal (2023): A New Class of Distribution Over Bounded Support and Its Associated Regression Mode, Annals of Data Sciences. <https://doi.org/10.1007/s40745-023-00483-3>
10. Na Elah, Ahmad, Peer Bilal and Wani, Muneeb Ahmad (2023): A New Zero-Truncated Distribution and Its Applications To Count Data, Reliability: Theory & Applications, 18, 2(73), 327-339. §**Corresponding author**.
11. Dar, Showkat Ahmad, Hassan, Anwar, and Ahmad, Peer Bilal, (2023): Negative Binomial Quasi Akash Distribution and its Applications, Journal of Statistics Applications & Probability 12(1), 101-108.
12. Dar, Showkat Ahmad , Hassan, Anwar, and Ahmad, Peer Bilal, (2022): Poisson size-biased Lindley distribution and its applications, International Journal of Modeling, Simulation, and Scientific Computing,13(4), 2250031. <https://doi.org/10.1142/S1793962322500313>
13. Hassan, Anwar, Lone, Murtiza Ali, Dar, Ishfaq Hassain and Ahmad, Peer Bilal (2022): A new continuous probability model based on a trigonometric function, Reliability: Theory & Applications, 17, 3(69), 261-272.
14. Dar, Showkat Ahmad , Hassan, Anwar, , Ahmad, Peer Bilal and Lotayif , Mansour (2022): On Poisson Weighted Pranav Distribution Applicable to Count Data, Journal of Statistics Applications & Probability, 11(2), 385-393.
15. Hassan, Anwar, Ishfaq S. Ahmad and Ahmad, Peer Bilal (2022): Zero-inflated Modified Borel-Tanner regression model for count data, Austrian Journal of Statistics, 51, 28-39. §**Corresponding author**.
16. Dar, Showkat Ahmad , Hassan, Anwar, , Ahmad, Peer Bilal, Wani, Sameer Ahmad (2021): A new count data model applied in the analysis of vaccine adverse events and insurance claims, STATISTICS IN TRANSITION new series, 22 (3),41–65.
17. Dar, Showkat Ahmad , Hassan, Anwar , Ahmad, Peer Bilal and Para, Bilal Ahmad (2021): A New Compound Probability Model Applicable to Count Data, The Philippine Statistician, 70(2), 11-21.
18. Hassan, Anwar, Ishfaq S. Ahmad and Ahmad, Peer Bilal (2021): Negative binomial-reciprocal inverse Gaussian distribution: Statistical properties with applications in count data, Thailand Statistician, 19(3), 437-449.
19. Jan, Rameesa, Ahmad, Peer Bilal and T.R. Jan (2021): Characterization and Estimation of Generalized Inverse Power Lindley Distribution, Journal of Scientific Research, 65(1), 276-282.
20. Hassan, Anwar, Dar, Showkat Ahmad , Ahmad, Peer Bilal and Para, Bilal Ahmad (2021): On Size Biased Poisson Ailamujia Distribution and Its Applications, Pakistan Journal of Statistics, 37(1), 19-38.
21. Hassan, Anwar, Ishfaq S. Ahmad and Ahmad, Peer Bilal (2020): Negative Binomial-Janardan Distribution with Applications in Count Data, Journal of Applied Probability and Statistics, 15(2), 85-95.

22. Ahmad, Peer Bilal (2020): Bayesian Analysis of Misclassified Generalized Power Series Distributions Under Different Loss Functions, *Journal of Statistical Theory and Applications*, 19(2), 173-184.
23. Hassan, Anwar, Dar, Showket Ahmad, Ahmad, Peer Bilal and Para, Bilal Ahmad (2020): A new generalization of Aradhana distribution: properties and applications, *Journal of Applied Mathematics, Statistics and Informatics*, 16(2), 51-66.
24. Hassan, Anwar, Dar, Showket Ahmad, Ahmad, Peer Bilal and Shafi, Sumeera (2020) : Negative Binomial Weighted Exponential Distribution and Its Applications, *Journal of Xi'an University of Architecture & Technology*, 12(4), 4351-4362.
25. Ahmad, Afaq, Ahmad, Peer Bilal and Ahmad, Ishfaq S. (2019): Weighted Analogue of Inverse Levy distribution: Statistical Properties and Estimation, *Journal of Applied Probability and Statistics*, 14(2), 99-112.
26. Hassan, Anwar, Dar, Showkat Ahmad and Ahmad, Peer Bilal (2019): Poisson Ishita Distribution: A New Compounding Probability Model, *IOSR Journal of Engineering (IOSRJEN)*, 9(2), 38-46.
27. Hassan, Anwar, Dar, Mohd Altaf , Ahmad, Peer Bilal and Para, Bilal Ahmad (2019): A New Generalization of Pranav Distribution Using Weighting Technique, *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 6(1), 25-32.
28. Hassan, Anwar, Ahmad, Peer Bilal & Shanmugam, Ramalingam (2018): Modeling Cesarean versus Natural Birth Data with Suspicious Zero Counts Should Be a Prelude to Healthcare Cost Analysis. *Pak. J. Statist.* 34(8), 33-46.
29. Maqsood Ahmad Dar, Vasundhara Aggarwal, Peer Bilal Ahmad, Rajasheikar Reddi, JD Mukherjee, Khushbu Goel, Owais Hamid Dar (2018): The National Institutes of Health Stroke Scale score—a valuable stroke scale used in emergency in predicting the need for mechanical ventilation and outcome in patients of acute ischemic stroke, *Journal of Emergency and Critical Care Medicine*, 1-6.
30. Tarray, Tanveer Ahmad , Bhat, Muzafar Rasool and Ahmad, Peer Bilal (2018): An Adroit Strategy Randomized Response Model Using Fuzzy Numbers, *Statistics and Applications*, 16(2),49-63.
31. Tarray, Tanveer Ahmad , Ahmad, Peer Bilal and Bhat, Muzafar Rasool (2018): A New Approach to Randomized Response Model Using Fuzzy Numbers, *Asian Journal of Mathematics and Statistics*,11(1), 1-11.
32. Ahmad, Peer Bilal (2016): On the Bayes Estimators of the Parameters of Size-Biased Generalized Power Series Distributions, *Communications in Statistics, Theory and Methods* 45(12), 3612-3624. (ID: 904353 DOI:10.1080/03610926.2014.904353).
33. Hassan, Anwar. Ahmad, Peer Bilal and Joarder, Anwar Hassan (2013): Bayesian Estimation in Some Power Series Distributions. *Journal of Statistical Theory and Applications*, 12(4), 419-427.
34. Hassan, Anwar and Ahmad, Peer Bilal (2012): On Bayesian Estimation of Size-Biased Modified Power Series Distributions. *Journal of Applied Statistical Science (USA)*, 20(3), 241-255(ZbI 06314265)
35. Ahmad, Peer Bilal and Hassan, Anwar (2010): On the Bayes Estimators of the Parameters of Zero-Inflated Modified Power Series Distribution. *Journal of Statistical Theory and Applications (USA)*, 9(3), 427-441.
36. Hassan, Anwar and Ahmad, Peer Bilal (2009): Misclassified Size-Biased Modified Power Series Distribution and its applications. *Mathematica Bohemica (Czech Republic)*, 134(1), 1-17. (ZbI 1206.62010).

37. Hassan, Anwar and Ahmad, Peer Bilal (2009): Misclassification in Size-Biased Modified Power Series Distribution and its applications, *Journal of the Korean Society for Industrial and Applied Mathematics* (South Korea), 13(1), 55-72.
38. Hassan, Anwar. , Ahmad, Peer Bilal and Bhatti, Ishaq. M (2008) : On the Bayes Estimator of Parameter and Reliability Function of the Zero-Truncated Poisson Distribution, *Journal of the Korean Society for Industrial and Applied Mathematics*( South Korea), 12(2) , 97-108.
39. Hassan, Anwar., Ahmad, Peer Bilal and Shanmugam, Ramalingam (2007).: Six Sigma Applications of Unbiased Versus Size-Biased Modified Power Series Distributions in Epileptic Samples, *Journal of Statistical Theory and Applications* (USA), 6(3), 236-253.
40. Shanmugam, Ramalingam., Hassan, Anwar and Ahmad, Peer Bilal (2006) : Correlation between the Number of Epileptic and Healthy Children in Family Size that Follows a Size-Biased Modified Power Series Distribution, *Journal of Modern Applied Statistical Methods*(USA), 5(2), 458-463.
41. Hassan, Anwar and Ahmad, Peer Bilal (2006): Application of Non-Zero Inflated Modified Power Series Distribution in Genetics, *Journal of Probability and Statistical Science* (Taiwan, Republic of China), 4(2), 195-205.

### **Conference Papers:**

1. Jan, Rameesa, T.R.Jan, Raeesa Bashir and Ahmad Peer Bilal (2020): Characterization and Estimation of Odd-Lomax Lindley Distribution, *Preceding of 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), IEEE*, 606-610.
2. Jan, Rameesa, T.R.Jan and Ahmad Peer Bilal (2020): A New Generalization of Ailamujia Distribution with Real Life Applications, *Preceding of 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), IEEE*, 237-242.
3. Hassan, Anwar, Ishfaq S. Ahmad and Ahmad, Peer Bilal (2020): Non-Central Negative Binomial Regression Model for Count Data, *Preceding of 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), IEEE*, 758-762.
4. Dar, Showkat Ahmad , Hassan, Anwar, Ahmad, Peer Bilal (2020): Poisson Size Biased Exponential Distribution With its Applications, *Proceedings ICRTSH 2020 extract*, 1-10, 210-223

### **Book Chapters:**

1. Ahmad, Peer Bilal (2019): Bayesian Analysis of Zero-Inflated Generalized Power Series Distributions Under Different Loss Functions, *Bayesian Analysis and Reliability Estimation of Generalized Probability Distributions*, AIJR Publisher, 1-12. ISBN: 978-81-936820-7-4.
2. Ishfaq S. Ahmad and Ahmad, Peer Bilal (2022): A New Mixed Generalized Negative Binomial Distribution , *Statistics and Research in the face of Covid-19 Pandemic*, Bright MP Publisher , 302-312. ISBN: 978-93-91143-59-6.
3. Wani, Mohammad Kafeel, Ahmad, Peer Bilal and Hassan, Anwar (2022): On Compounding of Zero-Inflated Poisson distribution with Beta Distribution, *Statistical Techniques in Research and Development*, Bright MP Publisher, 438-447. ISBN: 978-93-91143-66-4.

### **Invited Talk:**

1. Delivered an Invited talk entitled “Zero-Inflated Poisson Moment Exponential Distribution and its applications” in the Ninth International Conference on “ Statistics for Twenty-first Century-2023” (

15-18, December, 2023) organized by the International Statistics Fraternity(ISF), Department of Statistics and School of Physical and Mathematical Sciences, University of Kerala.

2. Delivered an Invited talk entitled “Career Opportunities in Statistics with Specialization in Industrial Statistics” in one day conference on LOCF on the theme “New Trends in Statistics & Optimization Techniques” held on 3rd March 2020 organized by Department of Statistics, Govt. Degree College Anantnag.
3. Delivered an Invited talk entitled “Bayesian Analysis of Misclassified Generalized Power Series Distributions under Different Loss Functions” in an International Conference on Statistical Distributions and Applications (14-16 October 2016) organized by Central Michigan University (USA) and Brock University ( Canada) at Niagara Falls, Canada.

### **Conferences attended/ Papers presented.**

1. Presented a paper titled “A New Regression Model for Count Data with Applications to Health Care Data” in a National Conference on “Statistics for All” (11th July, 2023) organized by Division of Social Sciences, Faculty of Fisheries, SKUAST- Kashmir.
2. Presented a paper titled “Zero-inflated Discrete Distribution and its Applications to Zero-Inflated Count Data” in an International Conference on “Applications of Statistics” (2-3, February, 2023) organized by the department of Statistics, Pachhunga University College (PUC) campus, Mizoram University.
3. Presented a paper titled “ A New Compound Distribution and its Applications in Over-Dispersed Count Data” in an International Conference on “ Statistics for Twenty-first century-2022” ( 16-19, December, 2022) organized by the International Statistics Fraternity (ISF), School of Physical and Mathematical Sciences and Department of Statistics, University of Kerala.
4. Presented a paper titled “Zero-inflated Modified Borel-Tanner Regression Model for Count Data” in an International Conference on “Applied Statistics in Biological, Agricultural, Social and Medical Sciences” (20-21, October, 2021) organized by Faculty of Fisheries, SKUAST- Kashmir.
5. Presented a paper titled “Misclassified Poisson Akash Distribution and its applications” in a National Conference on “Impact of Covid-19 from Statistical Perspective’ (29th June, 2021) organized by Division of Social Sciences, Faculty of Fisheries, SKUAST- Kashmir.
6. Presented a paper titled “Inflated Size-Biased Generalized Power Series Distributions and its Applications” in an International Conference on “Emerging Innovations in Statistics and Operations Research (EISOR-2018)’ (27-30, December, 2018) organized by Department of Statistics, M.D. University, Rohtak, Haryana.
7. Presented a paper titled “ On Bayesian Estimation of Parameters of Misclassified Size Biased Generalized Power Series Distribution” in an International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences (29-31 January-2018) organized by Department of Statistics, Pondicherry University, Puducherry.
8. Presented a paper titled “Bayesian Analysis of Zero-Inflated Generalized Power Series Distributions under Different Loss Functions” in an International Conference on Statistics for Twenty-First Century (17th-19th Dec 2015) organized by the Department of Statistics, University of Kerala, Trivandrum.
9. Presented a paper titled “Non Zero Inflated Poisson Distribution and its Applications” in an International Conference on Operations Research for Data Analytics and Decision Analysis (Oct 19-23, 2013)” organized by the Department of Statistics, University of Kashmir.

10. Presented a paper titled “On the Bayes Estimators of the Parameters of Non-Zero Inflated Generalized Power Series Distributions” in an International Conference on “contemporary issues and applications of statistics (January 2-4, 2012)” organized by Indian Statistical Institute (ISI) Kolkata, India ,
11. Presented a paper titled “On the Bayes Estimators of The Parameters of Size-Biased Generalized Power Series Distributions” in an International Conference on “Challenges in Statistics and Operations Research (March, 2011)” organized by the Department of Statistics & Operations Research, Kuwait University.
12. Presented a paper titled” On the Bayes Estimators of The Parameters of Zero-Inflate Modified Power Series Distributions in an International Conference on “Development and Applications of Statistics in Emerging Areas of Science & Technology (December 2010)” organized by the Department of Statistics, University of Jammu.
13. Presented a paper titled “Correlation between the Number of Epileptic and Healthy Children in Family Size that Follows a Size-Biased Modified Power Series Distribution” in an International Conference on New Trends in Statistical and Optimization (ICONTOSO-2008) (Oct, 2008)” organized by the Department of Statistics, University of Kashmir.
14. Presented a paper titled “Misclassified Size-Biased Modified Power Series Distribution and its applications” in a National Conference on “Emerging Trends in Statistical Methods and Optimization Techniques (Feb, 2008)” organized by the Department of Statistics, University of Jammu.

### **Services rendered as Resource Person**

1. Acted as a Resource Person and held one Session on “Statistics and Sampling Techniques” in one-week National Workshop on “Research Methodology in Social Sciences”, held from January 31st –February 4th, 2022, organized by the Centre for International Relations ,IUST.
2. Acted as a Resource Person and held one Session on “Statistical Approaches in Research” in one-week National Workshop on “Communication Research Tools, Methods and Approaches”, held from August 31- September 5, 2021, organized by the Department of Journalism and Mass Communication, IUST.
3. Acted as a Resource Person and held two Sessions on “Basic Statistics for Research” in Ten Day Workshop on “Research Methodology in Social Sciences”, held from July 22- July 31, 2019, organized by the Department of Social Work, University of Kashmir.
4. Acted as a Resource Person and held two Sessions on ‘Hypothesis Testing & Sampling “in one-week Course on Research Methodology in Social Sciences, held from 11-15- June, 2019 organized jointly by Rinchen Shah Centre for West Himalayan Cultures and Centre for international Relations (IUST).
5. Acted as a Resource Person and held two Sessions on ‘Hypothesis Testing & Sampling “in two-week Research Methodology in Social Sciences, held from 6-16 March, 2018, sponsored by Indian Council of Social Sciences Research (ICSSR) and organized jointly by Rinchen Shah Centre for West Himalayan Cultures and Centre for international Relations (IUST).

### **Workshops /Symposia/Refresher Courses Attended**

1. Three days Eighth International Virtual Workshop on Distribution Theory and its Applications-2022 organized by the International Statistics Fraternity (ISF), School of Physical and Mathematical Sciences and Department of Statistics, University of Kerala, ( 13-15 December, 2022)
2. Two weeks Refresher Course in Sciences organized by the UGC- Human Resource Development Centre, University of Kashmir, (23rd August – 03rd September, 2021)

3. One Week online international Faculty Development Program on “Research Advances in Mathematics and Statistics” in connection with the birth centenary of Prof. C.R. Rao (3rd -8th August, 2020) jointly organized by the Department of Mathematics, Institute of Science and Center for learning and Sustainability, GITAM, Visakhapatnam, Andhra Pradesh.
4. Three days Faculty Development Program on “Libra Office Suite Writer & R Software (1st -3rd September, 2020) organized by University of Kashmir with course material provided by Spoken Tutorial Project, IIT Bombay.
5. One day online National webinar entitled “Data Analysis and Statistical Computing (27th May, 2020) organized by Department of Statistics, Institute of Social Sciences, Dr. Bhimrao Ambedkar University, Agra.
6. One day Webinar titled “ Cryptography, Network Security and Cyber Security” ( 6th August, 2020) jointly organized by Maulana Abul Kalam Azad University of Technology, West Bengal and Islamic University of Science and Technology, Jammu & Kashmir.
7. One day Webinar on “Accelerate Research Planning using Elsevier Science Direct and Mendely” (4th May, 2020) jointly organized by Elsevier and Islamic University of Science and Technology, Jammu & Kashmir.
8. One day Webinar on “Exploring Web of Science, End Note X9, Journal Citation Report and Incites for Promoting Excellence in Research” ( 5th June 2020) Jointly organized by IUST, TEQIP -III and Clarivate Analytics.
9. One-Week Workshop on “The Basics of Econometrics and its Applications” (1st to 7th July, 2019), organized by the Department of Economics, Islamic University of Science and Technology, Awantipora, J&K.
10. Participated in the Celebration of World Book and Copyright Day on 25th April 2019 at Islamic University of Science and Technology, Awantipora, J&K
11. One Week Faculty Development Program on “Emerging Trends in Physical, Chemical and Mathematical Sciences” (14th-20th Feb., 2019) Jointly organized by the Department of Physics, Chemistry and Mathematical Sciences, Islamic University of Science and Technology, Awantipora, J&K.
12. One-Week Workshop on “Statistics and Optimization Techniques Using Software Packages” (14th to 19th January, 2019), organized by the Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh.
13. One Week National Faculty Development Program on “Research Trends in Information Technology” (25th-29th September, 2018) organized by the Department of Computer Science and Department of Computer Science Engineering, School of Engineering and Technology, Islamic University of Science and Technology, Awantipora, J&K, Under TEQIP-III.
14. Three weeks Special Summer School Refresher Course in Sciences organized by the UGC- Human Resource Development Centre, University of Kashmir, (09th August – 07th September, 2018).
15. Two days National Seminar on Stochastic Modelling and Optimization Methods (30-31, Jan- 2018) organized by Department of Statistics, Pondicherry University, Puducherry.
16. One week workshop on “Research Methodology in Mathematics” (23rd–29th Nov 2017) organized by the Department of Mathematics, Central University of Kashmir, Srinagar.
17. Three days international workshop on “Distribution Theory & Its Applications” (14th - 16th Dec 2015) organized by the Department of Statistics, University of Kerala, Trivandrum.

18. One Day International Workshop on Cyber Communication” Security and Laws” (08th May-2017) jointly organized by the Islamic University of Science & Technology and Springer Nature.
19. Two day workshop on Scientific & Technical Documentation Using LATEX ( 21st -22nd December 2017) organized by the Department of Electrical Engineering , Islamic University of Science & Technology
20. Three weeks Refresh Course in Mathematics/Statistics (ID) organized by the Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (03th Dec – 23th Dec, 2013).
21. Five day international workshop on “Optimization Techniques and Softwares” (October 19-23, 2013) organized by the Department of Statistics, University of Kashmir.
22. One day work shop on “Professional Development” ( 03 May 2013), organized jointly by Foundation for Academic Excellence & Access (FAEA) and Women in Security, Conflict Management and Peace ( WISCOMP) at Government Degree Collage, Bemina.
23. Four weeks General Orientation Program (57th General Orientation Program, 2012) organized by the Academic Staff College, University of Kashmir, Srinagar. (9th Feb – 10th March, 2012).
24. One day workshop on “Advanced Computing for Statistics and Optimization for Young Statisticians and Scientists Using Softwares” at Gulmarg (October 22, 2008) organized by the Department of Statistics, University of Kashmir.
25. Two days’ workshop on “Project Planning, Implementation, Monitoring and Evaluation (2nd & 3rd, March, 2009)” organized by the Directorate of Economics & Statistics, J&K in collaboration with the Ministry of Statistics & Program Implementation, Government of Indian and Water & Power Consultancy Services(I) Ltd. (WAPCOS).
26. One day Orientation Program (10th, October, 2009) organized by the Directorate of Economics & Statistics, J&K Government. Delivered a lecture on “Role of Statistics in Development Planning”

### **Conferences/Workshops Organized:**

1. Co-organizer (One Week International Workshop on “Thermodynamics of Earth System Components and its Application: Atmosphere, Hydrology, Ecology, Climate & Society”(March 11-15, 2024) organized by Dean Students IUST.)
2. Co-organizer (National Science Day held at IUST on 28th Feb. 2024). The programme was organized by School of Sciences ( IUST))
3. Co-organizer (Two-day regional workshop on “Research and Opportunities” held at IUST from May 22-23, 2023. The workshop was organized by Indian Women and Mathematics (IWM) in association with Department of Mathematical Sciences, IUST, funded by National Board of Higher Mathematics, India.)
4. Co-organizer (Math Festival organized by the Department of Mathematical Sciences, IUST held at Larnoo, Kokernag, May 18th , 2023)
5. Co-organizer (Women in Mathematics Day held at IUST on May 17th, 2023)
6. Co-organizer (Two days National Seminar on “The Language and Methods of Mathematical Sciences” (March 24-25, 2022) organized by Department of Mathematical Sciences, IUST)
7. Co-organizer (Math Festival in Connection with International Day of Mathematics (16th March, 2022) held at IUST organized by the Department of Mathematical Sciences, IUST.)

8. Co-organizer (One Week Faculty Development Program on “Emerging Trends in Physical, Chemical and Mathematical Sciences” (14th-20th Feb., 2019) jointly organized by the Department of Physics, Chemistry and Mathematical Sciences, IUST.)
9. Organized One day Orientation Workshop on Spoken Tutorial Project of IIT Bombay (7th April 2017), held at IUST Campus. The workshop was organized in collaboration with Spoken Tutorial Project ,IIT Bombay
10. Co-ordinated and conducted a workshop for Latex on 20th July 2012 held at Islamic University of Science & Technology, Awantipora. The workshop was organized with help from the Spoken Tutorial project, Developed at IIT Bombay, funded by NMEICT, MHRD, Govt. of India.
11. Organized one day workshop on “Waste Management and Cleanliness Drive” (29th November, 2017) Conducted by Mantaqi Center for Science & Society and Department of Mathematical Sciences, IUST.
12. Co-organizer (IMPACT workshop for High & Higher Secondary School Students organized by the Department of Mathematical Sciences IUST held on 18th June 2014)
13. Co-organizer (2-day Teacher Training Workshop for school level mathematics teachers organized by the Department of Mathematical Sciences, IUST held at IUST from November 13-14, 2015)
14. Co-organizer (Two day IMPACT, Math Festival organized by the Department of Mathematical Sciences, IUST held at SKICC, Srinagar from March 19-20th 2016)
15. Co-organizer (National Science Day held at IUST on 28th Feb. 2017.)
16. Co-organizer ( One day Math Festival organized by the Department of Mathematical Sciences, IUST held at Kupwara on May 29, 2016)
17. Organizer (One day Spoken Tutorial Awareness Program held on 7th April. 2017)

### **Ph.D. Students under Supervision: 04**

### **Student awarded Ph.D. Degree: 04**

### **M.Sc. Projects/ Dissertation Supervision: 11**

### **U.G. Projects Guided: 10**

### **Awards/Scholarships:**

1. Awarded ‘University Gold Medal’ by University of Kashmir for securing First class 1st Position in M.Sc Course.
2. Awarded Merit Scholarship by the University of Kashmir during M.Sc Course.
3. Awarded Research Scholarship by the University of Kashmir during M.Phil & Ph.D programme.
4. Best Paper Award in an International Conference on “Applied Statistics in Biological, Agricultural, Social and Medical Sciences” (20-21, October, 2021) organized by Faculty of Fisheries, SKUAST-Kashmir

### **Membership:**

- Lifelong member of Indian Society for Probability & Statistics (ISPS).

## Reviewer:

Reviewer of many journals like *Journal of Modern Applied Statistical Methods (USA)*, *Thailand Statistician*, *Austrian Journal of Statistics*, *Pakistan journal of statistics and operation research etc.*

## Computer Knowledge:

- **Computer Programming & Applications** as one of the optional paper during M.Sc. Program in Statistics.
- Working Knowledge of **MS Office, MS Word, FORTRAN-77, Minitab, SPSS** package.

## Thrust Areas (Teaching):

I love teaching the subjects of Probability & Probability distributions, Inference, Regression Theory, Differential Calculus, Design of Experiments, Research Methodology and Business Statistics & Mathematics because of their applied nature. In today's complex environment, most decision cannot be made by simply applying personal experience, guesswork or intuition, because the consequences of decision are serious and costly, I am very keen to comprehensively equip students the techniques which will help them in making rational, practical and effective decisions by having the basic knowledge of Mathematics and Statistics. I am trying to teach the students the practical applications of these subjects so that they can make their use in solving the real life problems. My aim is to teach these subjects in different disciplines such as engineering, management, food technology, computer applications etc.

I can also teach the subjects of Sampling and Sampling Methods, Quality Control, Operational Research, Stochastic Models, Financial Mathematics, Statics, Dynamics, Trigonometry, Matrices, Real Analysis & Integral Calculus

## Future Research Plan:

As the probability distributions form a basic and promising field of study in the domain of statistics and have many applications in wide variety of disciplines, such as biological and medical sciences, social sciences, physical sciences, quality control, engineering etc., my research interests are in data modeling, statistical inference and distribution theory. During the last twenty years of research I have made an attempt to explore some new horizons of Modified Power Series Distributions, Compounded distributions, generalized distributions etc. and in future I will try to develop some methods of probability inference, regarding the Modified Power Series Distributions, Compounded distributions, generalized distributions etc. and their other forms. The results are expected to be applicable to many real life problems. I am also interested to work on, regression modeling, insurance, risk management models in banks (especially market risk and credit risk), models for population growth and epidemic models besides working on Six Sigma tools and their applications.

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### Further Details:

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Date of Birth	: 01-02-1978
Marital Status	: Married
Languages	: English, Urdu, Kashmiri.
Hobbies	: Playing Cricket, Gardening
Nationality	: Indian
Residential Address	: Takya Damhal Koshipora, Anantnag, J&K.

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P/O. Hakura Badasgam-192211

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**Dated: 17-05-2024**

**Peer Bilal Ahmad (Ph.D.)**