

Khawar Javaid

Ph.D. in Statistics
Islamic University of Science & Technology
Awantipora, J&K, India

+91-7006565099, 8494053738
khawarjavaid096@gmail.com
Google Scholar
LinkedIn
ORCID

SUMMARY

I am a statistician with a PhD specializing in probability modeling and the development of advanced regression frameworks for complex healthcare and lifetime data. My research focuses on deriving rigorous mathematical proofs, evaluating empirical results through comprehensive simulation studies, and applying robust statistical methodologies to real-world datasets, supported by an active publication record in peer-reviewed journals. Beyond research, I am deeply committed to academia, bringing a structured, step-by-step pedagogical approach to teaching statistics and making complex theories accessible to students. Additionally, I hold a strong foundational background and maintain an ongoing interest in actuarial science.

EDUCATION

Degree	Institute	Department	CGPA/Percentage	Year
Ph.D. Statistics	Islamic University of Science & Technology	Mathematical Sciences	-	2023–2026
M.Sc. Statistics (Actuarial)	Islamic University of Science & Technology	Mathematical Sciences	9.58	2019–2021
B.Sc. Actuarial & Financial Mathematics	Islamic University of Science & Technology	Mathematical Sciences	9.34	2016–2019

EXPERIENCE

- **Government Degree College, Anantnag** — *Sept 2026–Present*
  Faculty Member (Contractual), Department of Statistics — Anantnag
  – Instruct undergraduate students across multidisciplinary introductory statistics courses and advanced major modules, including Sampling Theory, Advanced Probability Theory, Linear Models, Regression Analysis, and applied Statistical Computing using R.
  – Develop structured lecture materials, design practical examination papers, and manage student performance tracking.
- **ASEAN Institute of Insurance & Risk Management (AIIRM)** — *Jan 2021–Mar 2021*
  Student Intern — Jamia Hamdard
  – Analyzed grievances and design flaws in insurance products via risk management frameworks.
- **Cluster Innovation Centre, University of Delhi** — *Jan 2019–Feb 2019*
  Research Intern — New Delhi
  – Conducted research on numerical methods for boundary value problems.

PROJECTS

- **Some Contribution to Generalized Probability Distributions** — *Aug 2021–Dec 2021*
  Dept. of Mathematical Sciences, IUST
  – Contributions to generalized probability distributions and their applications to lifetime data.
- **Study of Grievances Related to Design of Insurance Products** — *Jan 2021–Mar 2021*
  AIIRM, Jamia Hamdard
  – Analyzed grievances and design flaws in insurance products.
- **Statistical Study of Road Traffic Violations in Kashmir** — *May 2019–Oct 2019*
  Dept. of Mathematical Sciences, IUST
  – Comprehensive data analysis of road traffic violations using SPSS.
- **Numerical Methods for Boundary Value Problems** — *Jan 2019–Feb 2019*
  Cluster Innovation Centre, University of Delhi
  – Implemented numerical solutions for complex mathematical boundary value equations.

PUBLICATIONS

- **A New Regression Model for Analysis of Count Response and Other Related Patient Outcomes** — *2025*
  Javaid, K., & Para, B. A. - Annals of Data Science, 1-26. DOI: 10.1007/s40745-025-00620-0 — **Published**
- **A NEW TRANSMUTED PROBABILITY MODEL: PROPERTIES AND APPLICATIONS** — *2025*
  Javaid, K., & Para, B. A. - Reliability: Theory & Applications, 20(1 (82)), 1020-1034. DOI: 10.24412/1932-2321-2025-182-1020-1034 — **Published**
- **A novel probability distribution for count data modelling based on Bernoulli–Poisson-Ailamujia convolution: properties, regression framework and applications** — *2026*
  Javaid, K., & Para, B. A. - Hacettepe Journal of Mathematics and Statistics, Advanced Online Publication, 1-34. DOI: 10.15672/hujms.1923173 — **Published**
- **A Weighted Extension of the Chris-Jerry Distribution: Statistical Properties, Estimation and Regression Modelling** — *2026*
  Javaid, K., & Para, B. A. - Austrian Journal of Statistics (In Production) — **Accepted**

TECHNICAL SKILLS

- **Statistical Methodologies**: Probability Theory, Statistical Inference, Regression Analysis, Parameter Estimation, Numerical Methods, Time-to-Event/Lifetime Data Analysis
- **Statistical Computing**: R Programming, Python, SPSS, C Programming
- **Tools and Frameworks**: LaTeX (Scientific Typesetting), Mathematica, MS Excel, MS Word & PowerPoint
- **Soft Skills**: Logical Reasoning, Technical Writing, Step-by-Step Problem Solving, English Proficiency (Written & Oral)

CERTIFICATIONS

- **Avogadro Training** University of Kashmir / Spoken Tutorial Project, IIT Bombay
- **R Programming Training** University of Kashmir / Spoken Tutorial Project, IIT Bombay
- **LibreOffice Suite Writer Training** University of Kashmir / Spoken Tutorial Project, IIT Bombay

SEMINARS, CONFERENCES, WORKSHOPS & MEMBERSHIPS

- **Membership:** Student Member, Institute of Actuaries of India (IAI).
- Presented a paper titled "A Novel Weighted Probability Model for Continuous Data: Properties and Regression Analysis" at **J&K Science Congress 2026**, Islamic University of Science & Technology (IUST), Kashmir (29th September–01st October 2026).
- Presented a paper titled "Regression Analysis of Medical Count Data Using a Novel Poisson Mixture Distribution" and participated in the **X International Symposium on Statistics, Optimization and Related Areas**, Department of Statistics & Operations Research, Aligarh Muslim University, Aligarh (15th–17th December 2025).
- Presented a paper titled "A New Transmuted Lifetime Distribution: Properties & Applications" and attended the National Conference-Cum-Workshop on **"Role of AI in Data Driven Informed Decision Making"**, Division of Agricultural Economics & Statistics, FOA Wadura, SKUAST-K in collaboration with JKSTIC (25th September 2025).
- Presented a paper titled "A New Probability Model for Medical Count Data with Properties and Applications" and attended the National Conference Cum Awareness Program on **"Mathematics in Daily Life"**, Division of Agricultural Economics & Statistics, FOA Wadura, SKUAST-K in collaboration with JKSTIC (27th December 2024).
- Participated in **JK Science Congress 2024** on the theme "Scientific Endeavors, Innovations, and Exploring New Possibilities", Government College for Women, M.A. Road, Srinagar (21st–22nd October 2024).
- Participated in a one-week international workshop on **"Thermodynamics of Earth System Components and its Applications: Atmosphere, Hydrology, Ecology, Climate and Society"**, IUST, Kashmir (11th–15th March 2024).
- Presented a poster titled "A New Probability Model with Applications" and participated in **National Science Day**, School of Sciences, IUST, Kashmir (28th February 2024).
- Attended an author workshop on **"Academic Publishing: Read & Publish with Cambridge University Press"**, IUST, Kashmir in collaboration with Cambridge University Press (03rd August 2023).
- Participated in the national seminar on **"The Language and Methods of Mathematical Sciences"**, IUST, Kashmir (March 2022).
- Participated in the **Virtual Actuarial Conclave 2022** (February 2022).
- Attended a series of actuarial webinars organized by AIIRM: **"Growing with Numbers—Actuarial Profession"** (March 2021), **"Paradigm Shift in (Re) Insurance Dynamics"** (December 2020), and **"Actuarial Education & Career Opportunities"** (August 2020).
- Attended a one-day workshop on **"Introduction to Intellectual Property Rights and Their Importance"**, Innovation Council, University of Delhi at Cluster Innovation Centre (January 2019).
- Participated in the **IMPACT Math Festival**, IUST, Kashmir.
- Attended a workshop on **"Waste Management & Cleanliness Drive"**, Environmental Science Section, Department of Mathematical Sciences, IUST, Kashmir.