Zamir Hussain

Associate Professor

School of Interdisciplinary Engineering & Sciences

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About

Dr. Zamir Hussain is working as Associate Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Zamir Hussain has a PhD in Applied Statistics. Dr. Zamir Hussain has published 25 research articles & conference papers having a citation count of 203, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Applied Statistics   2005 - 2012
  BZU, Multan , Pakistan

MSc in (Statistics)   2000 - 2002
  University of the Punjab , Pakistan

BSc in (Math A, Math B And, Statistics)   1998 - 2000
  University of Lahore , Pakistan

Experience

Associate Professor   2022- Present
  School of Interdisciplinary Engineering & Sciences

Associate Professor   2021 - 2022
  Research Centre for Modelling & Simulation

Assistant Professor   2013 - 2021
  Research Centre for Modelling & Simulation

Lecturer (BPS- 17)   2010 - 2013
  Pakistan Institute of Development Economics , Pakistan Institute of Development Economics

Research Projects

National Projects

Equitable Urban Heat Island Mapping: A Citizen Science Approach for Climate Justice   2024
  Funding Agency: NUST
  Amount: PKR 1,000,000.00
  Status: Approved_inprocess

City-level vulnerability to COVID pandemic: Spatio-temporal analysis of land use and land cover type   2022
effect on COVID incidences"
  Funding Agency: National Institute of Health (NIH), PAK
  Amount: PKR 1,980,000.00
  Status: Approved_inprocess

International Projects

Industry Projects

National Projects

International Projects

Decentralization, Subnational Politics and Democratic Transition in Pakistan (2010-17)   2022
    Client: Department of Political Science & International Relations, University of Gujrat
    Amount: PKR 60,000.00
    Status: Completed

Research Articles

Discovering promising drug candidates for Parkinson's disease: integrating miRNA and DEG analysis with molecular dynamics and MMPBSA   2025

    Bisma Ishtiaq Rehan Zafar Paracha Maryum Nisar Saima Ejaz Zamir Hussain

    Journal of Computer-Aided Molecular Design, Volume:39, Issue:1, Article Number 8

    Impact Factor: 3.000 | **Quartile:** 2 | **Citations:** 1
    DOI: https://doi.org/10.1007/s10822-025-00586-4

A comparative analysis of L-moments, maximum likelihood, and maximum product of spacing methods for the four-parameter kappa distribution in extreme value analysis   2025

    Muhammad Shafeeq ul Rehman Khan Zamir Hussain Sadaf Sher Muhammad Amjad Faisal Baig Ishfaq Ahmad Hamd Ullah

    Scientific Reports, Vol: 15, Article number: 164, Pages:15

    Impact Factor: 3.8 | **Quartile:** 1 | **Citations:** 1
    DOI: https://doi.org/10.1038/s41598-024-84056-1

Quality, safety, and microbiological assessment of loose market milk and antibiotic resistance analysis of Escherichia coli isolates in different areas of Faisalabad, Pakistan   2024

    Linta Khalid Aiman Fatima Shahid Nawaz Ayaz Khurram Zamir Hussain Imran Sajid

    International Dairy Journal, Volume 154, Article Number 105936

    Impact Factor: 3.100 | **Quartile:** 2
    DOI: https://doi.org/10.1016/j.idairyj.2024.105936

Modeling of flood extremes using regional frequency analysis of sites of Khyber Pakhtunkhwa, Pakistan   2021

    Muhammad Shafeeq ul Rehman Khan Zamir Hussain Ishfaq Ahmad Farzana Noor

    Journal of Flood Risk Management, Volume14, Issue 4, Article Number e12751

    Impact Factor: 3.884 | **Quartile:** 1 | **Citations:** 4
    DOI: 10.1111/jfr3.12751

Long non-coding RNAs and their targets as potential biomarkers in breast cancer   2021

    Maryam Khalid Rehan Zafar Paracha Maryum Nisar Sumaira Malik Dr Zamir Hussain Salma Tariq Iqra Arshad Amnah Siddiqa, Jamil Ahmad Amjad Ali

    IET Systems Biology, Volume 15, Issue 5, Pages 137-147

    Impact Factor: 1.615 | **Quartile:** 4 | **Citations:** 5
    DOI: https://doi.org/10.1049/syb2.12020

Statistical modeling for analyzing grain yield of durum wheat under rainfed conditions in Azad Jammu Kashmir, Pakistan   2021

    Kamran Abbas Zamir Hussain Mubasher Hussain Faisal Rahim Nasra Ashraf Qayyum Khan Ghulam Raza Amjad Ali Dost Muhammad Khan Umair Khalil Nausheen Irshad

    Brazilian Journal of Biology, Volume 82, Article Number e240199

    Impact Factor: 1.651 | **Quartile:** 3 | **Citations:** 2
    DOI: https://doi.org/10.1590/1519-6984.240199

Integrated analysis of microarray and RNA-Seq data for the identification of Hub genes and networks involved in the pancreatic cancer   2021

    Rumeza Hanif Rehan Zafar Paracha Mehak Rafiq Zamir Hussain Maryum Nisar Iqra Arshad Sidra Adil Sabaoon Zeb

    Frontiers in Genetics, Volume 12, Article Number 663787

    Impact Factor: 4.599 | **Quartile:** 2 | **Citations:** 18
    DOI: doi.org/10.3389/fgene.2021.663787

A Computational Systems Analyses to Identify Biomarkers and Mechanistic Link in Psoriasis and Cutaneous Squamous Cell Carcinoma   2021

    Sidra Adil Rehan Zafar Paracha Zamir Hussain Salma Tariq Maryum Nisar Sadaf Ijaz Afreenish Aamir Amnah Siddiq

    Frontiers in Immunology, Volume 12, Article Number 662528

Frequency analysis of annual maximum rainfall series of fifteen meteorological observatories of Sindh, Pakistan

2021

Uzma Nawaz Muhammad Shafeeq ul Rehman Khan Zamir Hussain Imran Rafi Khan Maryum Nisar

Arabian Journal of Geosciences, Volume 14, Issue 9, Article Number 749

Effects of L-Moments, Maximum Likelihood and Maximum Product of Spacing Estimation Methods in Using Pearson Type-3 Distribution for Modeling Extreme Values

2021

Muhammad Shafeeq ul Rehman Khan Zamir Hussain Ishfaq Ahmad

Water Resources Management, Volume 35, Pages 1415–1431

Regional Flood Frequency Analysis, using L-moments, Artificial Neural Networks and OLS Regression, of Various Sites of Khyberpakhtunkhwa, Pakistan

2021

Muhammad Shafeeq ul Rehman Khan Zamir Hussain Ishfaq Ahmad

Applied Ecology and Environmental Research, Volume 19(1), Pages 471-489

Design and Optimization of a Diffuser for a Horizontal Axis Hydrokinetic Turbine using Computational Fluid Dynamics based Surrogate Modelling

2020

Waleed Khalid Salma Sherbaz Adnan Maqsood Zamir Hussain

Mechanika, Volume 26(2), Pages 161-170

Bayesian Estimation of Gumbel Type-II Distribution under Type-II Censoring with Medical Applications

2020

Kamran Abbas Zamir Hussain Noreen Rashid Amjad Ali Muhammad Taj Sajjad Ahmad Khan Sadaf Manzoor Umair Khalil Dost Muhammad Khan

Computational and Mathematical Methods in Medicine, Volume 2020, Article ID 1876073, 11 pages

Rainfall Frequency Analysis using Frechet and Log-Logistic Distributions of Sites of Azad Jammu and Kashmir, Pakistan

2019

Zamir Hussain Kamran Abbas

Applied Ecology and Environmental Research, Vol.17(6), Pages 13607-13623

MicroRNAs and their target mRNAs as Potential Biomarkers among Smokers and Non-Smokers with Lung Adenocarcinoma

2019

Zamir Hussain Sumaria Malik Rehan Zafar Paracha Maryam Khalid Maryum Nisar Amnah Siddiqa Raheel Nawaz Amjad Ali Jamil Ahmad

IET Systems Biology, Volume 13, Issue 2, Pages 69-76

A comparison of quadratic regression and artificial neural networks for the estimation of quantiles at ungauged sites in regional frequency analysis

2019

M. S. R Khan I. Ahmad Zamir Hussain

Applied Ecology and Environmental Research, Volume 17, Issue 3, Pages 6937-6959

Bayesian Analysis of Three-Parameter Frechet Distribution with Medical Applications

2019

Zamir Hussain Kamran Abbas Nosheen Yousaf Abbasi Amjad Ali Sajjad Ahmad Khan Sadaf Manzoor Alamgir Khalil Umair Khalil Dost Muhammad Khan Muhammad Altaf

Computational and Mathematical Methods in Medicine, Volume 2019, Article ID 9089856, 8 pages

Influences on Freshman Attitudes toward Engineering: Lessons from a Case Study of a Major Engineering University in Pakistan

2017

Qaiser Hameed Malik Zamir Hussain Naveed Zafar JAMES C. WITTE

International Journal of Engineering Education, Volume 33, Issue 2, Pages 596-609,

Impact Factor: 0.575 | **Quartile:** 4

DOI: https://www.ijee.ie/contents/c330217A.html

Estimation of flood quantiles at gauged and ungauged sites of the four major rivers of Punjab, Pakistan

2016

Zamir Hussain

Natural Hazards , Volume: 86 Issue: 1 Pages: 107-123

Impact Factor: 1.833 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1007/s11069-016-2676-3

Application of Regional Rainfall Frequency Analysis on Seven Sites of Sindh, Pakistan

2016

Zamir Hussain Mirza Naveed Shahzad Kamran Abbas

KSCE Journal of Civil Engineering, Print , Volume: 21 Issue: 5 Pages: 1812-1819

Impact Factor: 0.812 | **Quartile:** 3 | **Citations:** 9

DOI: 10.1007/s12205-016-0946-y

Bayesian Estimation of Exponentiated Pareto Distribution

2016

Kamran Abbas Irshad Ahmed Arshad Zamir Hussain Khuram Shehzad Khan

Pakistan Journal of Statistics , Volume 32, Issue 5, Pages 349-370

Impact Factor: -

DOI: https://www.scopus.com/record/display.uri?eid=2-s2.0-85003601547&origin

Application of the Regional Flood Frequency Analysis to the Upper and Lower Basins of the Indus River, Pakistan

2011

Zamir Hussain

Water Resources Management , Volume 25, Issue 11, Pages 2797-2822

Impact Factor: 2.054 | **Quartile:** 1 | **Citations:** 33

DOI: 10.1007/s11269-011-9839-5

Regional Frequency Analysis of the Seven Sites of Punjab, Pakistan, Using L-moments.

2009

G. R. Pash Zamir Hussain

Water Resources Management , Volume: 23 Issue: 10 Pages: 1917-1933

Impact Factor: 2.013 | **Quartile:** 1 | **Citations:** 48

DOI: 10.1007/s11269-008-9360-7

Conference Proceedings

Quantitative evaluation of Security and Privacy perceptions in online social networks: A case study

2017

Asma Bibi Zamir Hussain Fawad Khan Adnan Maqsood

2017 14th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)

Citations: N/A

DOI: 10.1109/IBCAST.2017.7868089

Shape optimization of non-linear swept ceiling fan blades through RANS simulations and Response Surface Methods

2015

Ehsan Adeeb Adnan Maqsood Ammar Mushtaq Zamir Hussain

2015 12th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)

Citations: N/A

DOI: 10.1109/IBCAST.2015.7058532