



E-NEWSLETTER

**STATISTICS DEPARTMENT
LCWU**

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LCWU

100
GLORIOUS YEARS OF



COLLEGE FOR
WOMEN UNIVERSITY
LAHORE
1922 - 2022



"To understand God's thoughts one must study Statistics, for these are the measure of His purpose"

Florence Nightingale



E-NEWSLETTER, STATISTICS DEPARTMENT LCWU

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E-NEWSLETTER, STATISTICS DEPARTMENT LCWU NEWS

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STATISTICS DEPARTMENT SIGNED LETTER OF INTENT WITH MIZAN TEPI UNIVERSITY, ETHIOPIA

The Letter of Intent (LOI) was signed between the Department of Statistics, Lahore College for Women University (LCWU), Lahore, Pakistan, and Mizan Tepi University, Ethiopia. Dr. Asifa Kamal, Chairperson, Department of Statistics, LCWU, and Dr. Wegayehu Enbeyle, Director International Relations, were appointed as the coordinators for the implementation of the terms and conditions of this cooperation program. The major scope of the LOI was academic and research activities. The LOI includes joint development of research projects, exchange of academic material and information, student and faculty exchange, and joint organisation of symposiums, conferences, and workshops.



INTERNSHIP PROGRAM CEREMONY AT PAKISTAN BUREAU OF STATISTICS

A great inauguration ceremony for the internship programme was held in June 2023 at the Pakistan Bureau of Statistics. Dr. Asifa Kamal, Chairperson, Statistics Department, LCWU, and Ms. Samina Irfan, Lecturer in the Statistics department, attended the ceremony.





E-NEWSLETTER, STATISTICS DEPARTMENT LCWU AWARDS

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APPRECIATION AWARD

Worthy Ex-Vice Chancellor Dr. Bushra Mirza (T.I.) and Ms. Huma Saeed, Controller of Examination, LCWU, awarded an appreciation certificate to Dr. Asifa Kamal, Chairperson, Statistics Department for her working as a member of inspection committee and convocation committee.




RESEARCH PRODUCTIVITY AWARD

Worthy Ex-Vice Chancellor Dr. Bushra Mirza (T.I.) presented research productivity award for the year 2021/2022 to Dr. Asifa Kamal, Dr. Naila Amjad, Ms. Naz Saud, Dr. Sadia Khalil, and Dr. Sehar Saleem.





E-NEWSLETTER, STATISTICS DEPARTMENT LCWU WORKSHOPS

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R FOR DATA SCIENCE

Laboratory for Interdisciplinary Statistical Analysis (LISA-LCWU), in collaboration with the Directorate of Faculty Development and Internationalization (DFDI), organized a three-day training workshop titled "R for Data Science" on January 24th to 26th, 2023. Dr. Asifa Kamal, Chairperson, Statistics Department, served as the resource person voluntarily for the workshop. The training workshop aimed to familiarise students and faculty

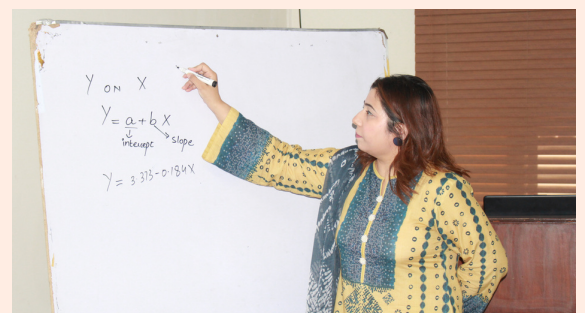
members with the concept of Big data and data handling using the tidyverse tool in R. The workshop provided a valuable opportunity for participants to engage in hands-on practice and gain a better understanding of the software.



STRUCTURAL EQUATION MODELING

Laboratory for Interdisciplinary Statistical Analysis (LISA-LCWU) organized a "Structural Equation Modeling (SEM)" workshop in collaboration with the Directorate of Faculty Development and Internationalization (DFDI). The resource person for the workshop was Ms. Jiya Amir, Lecturer, Statistics Department, LCWU.

The workshop covered the theoretical and practical application of exploratory factor analysis (EFA), confirmatory factor analysis (CFA), and mediation analysis using AMOS software. Participants from statistics, education, mass communication, geography, gender and development, management sciences, and economics department attended the workshop.





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WORKSHOP ON ENDNOTE AND LATEX

The Directorate of Faculty Development and Internationalization (DFDI) and Department of Botany jointly collaborated with the Department of Statistics under the umbrella of LISA-LCWU to organize workshops on "Endnote" and "Latex". Ms. Abeera Shakeel was the resource person for the two-day workshop on "Endnote" on May 29 to 30, 2023. Endnote helps researchers to manage their reference lists. Another two-day workshop on "Latex" was conducted from May 31st to June 1st, 2023. Ms. Noor Shahid, Lecturer, Statistics Department, was the resource person for the event.




Faculty and students from Botany department participated in the workshop. Dr. Anjum Tahira, Director DFDI, Dr. Asifa Kamal, Chairperson Statistics department and Dr. Sumera Iqbal, Associated Professor Botany department presented certificates to the resource person and organizers.





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MACHINE LEARNING TECHNIQUES: THEORY AND IMPLEMENTATION



The introduction and fundamentals of machine learning (ML) were explained. The workshop also covered the mathematical foundation and application of basic algorithms of ML. Faculty members from other departments at LCWU also attended the workshop. Faculty members from Forman Christian College (A Chartered University), Government Post Graduate College for Women Samanabad, Virtual University and Govt graduate college civil line, Sheikhpura participated in the workshop.

Laboratory for Interdisciplinary Statistical Analysis (LISA-LCWU) organized a five-day workshop titled "Machine Learning Techniques: Theory and Implementation" on 5th to 9th June, 2023 in collaboration with the Directorate of Faculty Development and Internationalization (DFDI). The resource person for the workshop was Dr. Muhammad Farooq. He has completed PhD from University of Stuttgart, Germany in Machine Learning and now serving as Assistant Professor at Department of Statistics, GCU Lahore. The Dean of Arts and & Social Sciences Prof. Dr. Muhammad Afzal, Director DFDI Dr. Anjum Tahira, and Controller of Examinations, Ms. Huma Saeed. graced the event and presented souvenir to the resource person.





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ONE-DAY INTERNATIONAL SYMPOSIUM ON THE ROLE OF STATISTICS IN THE DATA-CENTRIC WORLD AT GOVERNMENT COLLEGE UNIVERSITY, KSK

Dr. Asifa Kamal, Chairperson Statistics Department, attended a symposium on the "Role of Statistics in the Data-Centric World" at Government College University (GCU), Kala Shah Kaku (KSK) Campus on 13th Feb, 2023.



WORKSHOP ON "A STUDY OF ENVIRONMENTAL FACTORS THAT COULD CAUSE EVENTS SUCH AS THE DISASTROUS INDUS RIVER FLOOD OF 2022"

A three-day workshop on "A Study of Environmental Factors that could cause events such as the disastrous Indus River Flood of 2022" was organized by the Pak Institute of Statistical Training and Research (PISTAR) in collaboration with the Islamic Countries Society of Statistical Sciences (ISOSS) and Bureau of Statistics, Punjab on the 23rd, 24th and 26th of June, 2023 at the Bureau of Statistics, Punjab, Lahore. The convenor of the workshop was Prof. Dr. Saleha Naghmi Habibullah, Professor of Statistics at Kinnaird College For Women, Lahore and Honorary Executive Director of PISTAR. The resource person



was Emeritus Professor Don McNeil, School of Mathematical and Physical Sciences, Macquarie University, Australia who conducted the workshop in collaboration with his team members consisting of academics from Thailand and Indonesia. Ms. Shahana Khan, Ms. Sidra Sajjad and Ms. Jiya Amir, Lecturer, Statistics Department, LCWU attended the workshop.



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SERVICE OF CELEBRATION FOR COMMONWEALTH DAY

Ms. Anum Fatima, Lecturer Statistics Department, attended the Service of Celebration for Commonwealth Day at Westminster Abbey on 13th March, 2023 as a commonwealth scholar.



DISTANCE-BASED METHODS IN MACHINE LEARNING WORKSHOP AT UNIVERSITY COLLEGE LONDON, UK

Ms. Anum Fatima, Lecturer Statistics Department, gave a short talk on "Stein's method for Erdős-Rényi Mixture graph models" at Distance based in Machine Learning workshop, University College London, London, UK, on 27th June to 28 June, 2023.



- Ms. Anum Fatima, Lecturer Statistics Department, gave a talk on "Stein's method for Poisson-Exponential distribution" in the Junior Probability Seminar at the Department of Statistics, University of Oxford, UK.
- Ms. Anum Fatima, presented a poster at "First Year Graduate Poster Session" at the Department of Statistics, University of Oxford, UK.



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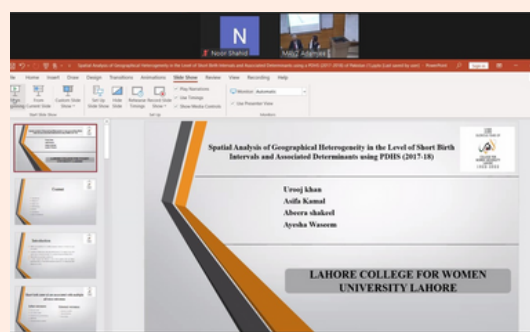
20TH INTERNATIONAL CONFERENCE ON STATISTICAL SCIENCES

Dr. Asifa Kamal, Chairperson, Statistics Department, LCWU, attended the 20th International Conference on Statistical Sciences on 9th March to 11th March, 2023 with Ms. Shahana Khan, Ms Sidra Sajjad and students of Statistics Department, LCWU. The conference was jointly organized by the Islamic Countries Society of Statistical Sciences (ISOS), Imperial College of Business Studies, and the Pak Institute of Statistical Training and Research. Ms. Zainab Arshad and Ms. Farheen, final year BS students, presented a research titled "Kumaraswamy Generalized Exponentiated Moment Exponential Distribution: properties and application" and "The Odd Gumble Type-2 Weibull distribution: properties and application"



POPULATION RESEARCH CONFERENCE 2023 AT IBA, KARACHI

Ms. Urooj Khan, BS Statistics Student, LCWU presented a study titled "Spatial Analysis of Geographical Heterogeneity in the level of Short birth interval and associated determinants using PDHS (2017-18)" in Population Research Conference at IBA, Karachi on 20th March, 2023.





E-NEWSLETTER, STATISTICS DEPARTMENT LCWU FACULTY INDUCTION



Noor Shahid

Lecturer, Statistics Department

I, Noor Shahid, completed my BS (Statistics) from Lahore College for Women University (LCWU) in 2016. After that, I got admission in College of Statistical Sciences (CSS) at the University of the Punjab for MPhil. During the academic years at LCWU and CSS, the theoretical knowledge and real-life application of statistics broadened my vision for the subject. My career began working as a visiting teaching assistant at LCWU in 2018. I also worked as a biostatistician at Avicenna Medical College (AMC), Lahore. They provided me with the opportunity to participate in numerous



workshops and activities while working in the Department of Medical Education (DME) at AMC. My collaborative work with students and faculty led me to start working on applied research. After that, I was given the chance to work remotely for Curiato, Inc. in Waterloo, Canada, as a data and research analyst. While working at Curiato, Inc., use of machine learning tools for prediction and classification analysis gave me integrated dimension of using statistical methodologies and computer science programming. I always found myself very motivated, dedicated, and curious about new research aspects.

During my remote job at Curiato, Inc., Central Park Medical College (CPMC) offered me a position as a statistician. Throughout my career, teaching and non-teaching tasks were part of my job description. I started my PhD in statistics at CSS in 2021. My coursework has been completed. Metaheuristic algorithms and machine learning algorithms are my prime areas of interest in PhD. I have many national and international research publications. Most of the published research is on applied statistics; a few are on mathematical statistics. I work in biostatistics and classification analysis in applied statistics and probability distributions, sampling estimators, metaheuristics, hybrid metaheuristics, and machine learning algorithms in mathematical statistics. My dedication to research activities led me back to LCWU as a permanent faculty member. I personally believe that my training during my BS at LCWU played a great role in building my career. And if this struggle keeps on, we will make the best of this place for other statistics students.



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Jiya Amir

Lecturer, Statistics Department

I, Jiya Amir, completed my MS in Statistics from Lahore College for Women University in 2021. I won gold medal and roll of medal in MS Statistics as well as in BS Statistics. In these years of my education at LCWU, I've learnt a lot of theoretical knowledge of statistics in the classroom. When I finished my MS thesis, I started working as an intern at LISA-LCWU in the year 2021. I participated in numerous workshops held by the statistics department of LCWU under the patronage of LISA-LCWU. I also organized and assisted in many workshops, titled as




- Machine Learning Techniques: Theory and Implementation
- R for Data Science
- Statistical Data Analysis Consultancy Desk Activity
- Organize Research with EndNote
- LATEX: Technical Writing in LaTeX for the Researchers
- Data Analysis using SPSS

I served as a resource person for a workshop titled "Structural Equation Modeling". Each of these workshops helped me to enhance my knowledge regarding the practical application of Statistics. My interest in the field of statistics has increased as a result of participating and assisting in these workshops. In addition to engaging actively in LISA-LCWU workshops while I was an intern there, I also found myself learning and attending seminars and workshops that were held by other institutions under the global network of LISA 2020. I've also collaborated with faculty and students on several statistical projects from other disciplines. In this process, I learned to relate theory with practice. I'm always very curious about the next workshops and new programmes that LISA-LCWU will be introducing.

Engagement in LISA-LCWU activities trained me to apply Statistics in real life. I personally think due to this training as intern has enabled me to successfully compete and got selected as a permanent lecturer in statistics at LCWU. Without a doubt, LISA 2020 is playing a great role in building the capacity of women in Statistics in developing countries. I sincerely hope LISA-LCWU will continue to create new programmes because doing so helps young statisticians flourish.



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TRIP TO CHANGA MANGA FOREST & WILD PARK

Department of Statistics, LCWU arranged one-day trip to Changa Manga Forest and Wild Park on 11th Feb, 2023 as co-curricular activity. Ms. Sameena Irfan being focal person of student affair, Statistics Department, managed all the necessary arrangements. Faculty and Students from BS Statistics department enjoyed a lot. Students express gratitude towards Dr. Asifa Kamal, Chairperson Statistics Department.



FAREWELL PARTY OF BS-IV

Department of Statistics, LCWU arranged a farewell party for BS IV Session 2019-2023. BS III being the host presented gifts to seniors. Ms. Sameena Irfan being focal person of student affair, Statistics Department, made all the necessary arrangements. Dr. Naila Amjad, and Ms. Sameena Irfan also attended the event.

