



E-NEWSLETTER

**STATISTICS DEPARTMENT
LCWU**

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100
GLORIOUS YEARS OF



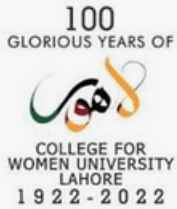
COLLEGE FOR
WOMEN UNIVERSITY
LAHORE
1922 - 2022

"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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LCWU COLLABORATES WITH AZIZ JAHAN BEGUM TRUST FOR THE BLIND TO EMPOWER DIFFERENTLY-ABLED STUDENTS

Lahore College for Women University (LCWU) has taken a groundbreaking step towards inclusivity and accessibility by forging a strategic partnership with Aziz Jahan Begum Trust for the Blind, Lahore. An official Memorandum of Understanding (MoU) was signed on the 3rd of May, 2024, solidifying a commitment to support and empower visually impaired students.

The scope of cooperation outlined in the MoU encompasses a wide array of collaborative endeavors, including joint conferences, seminars, workshops, and various activities aimed at fostering academic and personal development. Additionally, the agreement ensures access to essential software and facilities, facilitates the sharing of data, publications, and information, and explores other areas of mutual interest.

LCWU currently hosts over 80 differently-abled students across multiple departments, underscoring the institution's dedication to providing equitable opportunities for all learners. This milestone achievement is the result of tireless dedication and unwavering commitment, notably spearheaded by Dr. Asifa Kamal, Associate Professor and Chairperson of the Department of Statistics at LCWU.


The MoU signing ceremony was graced by esteemed dignitaries, including Prof. Dr. Shugufta Naz, Vice Chancellor of Lahore College for Women University, and Mr. Mian Kamran Afzal, Chairman of the Board of Trustees at Aziz Jehan Begum Trust for the Blind. Controller Examination LCWU Ms. Huma Tariq also attended the event. Prof. Dr. Shugufta Naz commended the collaborative efforts of the entire team, recognizing the initiative as a testament to LCWU's ethos of inclusivity and excellence.

The event was attended by senior administrative officials and faculty members from relevant departments, highlighting the collective commitment to creating a more accessible and inclusive learning environment.





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LCWU COLLABORATES WITH INFORMATION TECHNOLOGY UNIVERSITY OF THE PUNJAB

MOU: MEMORANDUM OF UNDERSTANDING

An important occasion took place in Jan 2024 at the Syndicate Hall of Bushra Mateen Building, LCWU. Vice Chancellor Prof. Dr. Shagufta Naz and Vice Chancellor Prof. Dr. Adnan Noor Mian, representing Lahore College for Women University (LCWU) and Information Technology University of the Punjab (ITU) respectively, formally inked a Memorandum of Understanding (MOU). This significant agreement paves the way for fruitful collaborations in research, development, faculty and student exchanges, as well as joint efforts in organizing conferences, seminars, and workshops.



The initiative of this MOU can be attributed to the vision of Dr. Asifa Kamal, Chairperson of the Department of Statistics, and Dr. Saima Farhan, Chairperson of Computer Science. The signing ceremony witnessed the presence of esteemed dignitaries, including

the registrar, director of the




Office of Research, Innovation and Commercialization (ORIC), deans, and senior faculty members from both

institutions.



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LISA LCWU OFFERED THE GREATEST NUMBER OF MULTI-DAY WORKSHOP

Laboratory for Interdisciplinary Statistical Analysis (LISA-LCWU) offered the greatest number of multi-day workshop in 2023 according to the Global LISA network in Multi-Day workshop tab in workbook.

In the workbook in the **multi-day workshops** tab, there are six tables provided—there is one table for each year, plus one table showing the combined multi-day workshop information. For each lab in each year, the total number of multi-day workshops offered by the lab, the total number of attendees (broken down by type and gender) and the percent of each type of attendee that are female is provided.

The average number of multi-day workshops offered by a single lab each quarter in 2023 is 0.23; the median number of multi-day workshops offered each quarter is 0. SUA-LISA offered 24 multi-day workshops between 2019 and 2021, although they did not provide any reports in 2022; the **greatest number of multi-day workshops offered by a single lab in 2023 was 6, offered by LISA-LCWU**. There are 7 labs that have never offered a multi-day workshop (including KU-LISA, which is now retired from the network).

The average number of faculty/staff attendees per multi-day workshop is 8.9 overall and 8.4 in 2023; the average number of student attendees per multi-day workshop is 25.1 overall and 39.8 in 2023; the average number of outside attendees per multi-day workshop is 11.1 overall and 5.9 in 2023.

STATS SORORITY

Societies Certificates distribution ceremony was held at LCWU on 9th May 2024. The newly formed Statistical Society named "Stats SorORITY" at LCWU has been officially registered and received a certificate of recognition from the Vice-Chancellor.



The event concluded with a networking session, where students had the opportunity to interact with faculty, alumni, and industry professionals. This session aimed to foster connections and provide mentorship opportunities for the students.



ARTICLE ACCEPTED FOR ORAL PRESENTATION

Ms. Anum Hassan, Lecturer at Department of Statistics, LCWU got her paper accepted for an Oral presentation at The Bernoulli-IMS 11th World Congress in Probability and Statistics on the campus of Ruhr University Bochum, Germany.

ALUMNI OF STATISTICS DEPARTMENT

Tanzeela Noor, one of the Alumni of Statistics Department got selected as Statistical Officer at **Bureau of statistics** through Federal Public Service Commission (FPSC). She also got her selected as Statistical Officer through FPSC under the **Ministry of Defence**.

Internship Program Ceremony at Pakistan Bureau of Statistics

A great inauguration ceremony for the internship programme was held in June 2024 at the Pakistan Bureau of Statistics. Dr. Maryam Hafeez, Incharge, Statistics Department, LCWU, and Ms. Samina Irfan, Lecturer, Statistics Department, attended the ceremony.





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DATA ANALYSIS USING "STATA"

The Laboratory for Interdisciplinary Statistical Analysis (LISA-LCWU) organized a three-day workshop on "STATA from March 6th-8th, 2024." Dr. Asifa Kamal, Chairperson, Department of Statistics at LCWU, led the workshop by sharing her extensive expertise as a resource person. The hands-on training session proved beneficial for young researchers, enhancing their skills in data analysis.



The certificate of appreciation was presented to Dr. Asifa Kamal, in recognition of her

contribution. The certificates were also distributed among the participants, including students and faculty from LCWU as well as affiliated colleges.



CELEBRATING THE INTERNATIONAL DAY OF STATISTICAL LITERACY: CONSULTANCY DESK

Laboratory for Interdisciplinary Statistical Analysis LISA-LCWU in collaboration with the Department of Statistics, LCWU organized two days consultancy desk for the faculty and students of LCWU to celebrate "International Day of Statistical Literacy". The basic purpose of this consultancy desk was to assist young researchers in data analysis. It also helped students in providing guidelines about sample size, structuring questionnaire, data entry etc. The faculty and students of Department of Statistics provide their services voluntarily for consultancy. The success of the event is attributed to Chairperson Department of Statistics, Dr. Asifa Kamal who made data analysis consultancy easily accessible to the researchers at LCWU.

Celebrating the "International Day of Statistical Literacy"





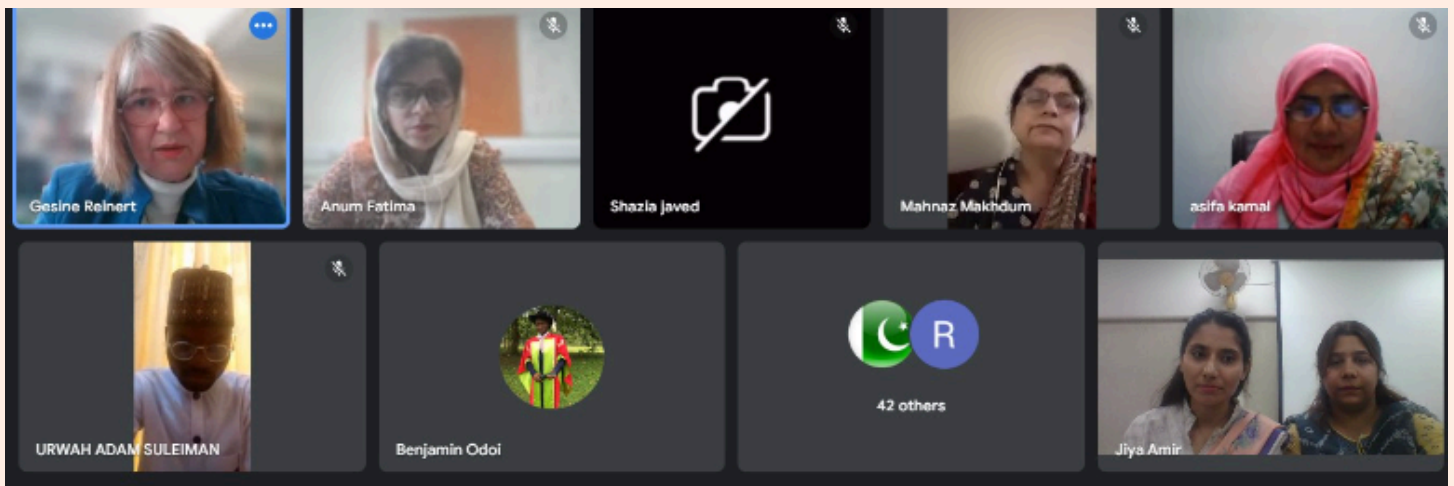
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INTERNATIONAL WEBINAR ON "PROBABILITY IN NETWORK ANALYSIS"

A successful Webinar titled "Probability in Network Analysis" was organized by Laboratory for Interdisciplinary Statistical Analysis LISA-LCWU in collaboration with Department of Statistics, LCWU on April 17th, 2024.



Dr. Gesine Rinert, Professor, University of the Oxford, UK was the guest speaker. She has vast experience in applied probability and computational analysis. Faculty from LCWU and affiliated colleges, doctorate/post-doctorate research scholars, many industrial experts, International participants from Global LISA network 2020 attended the webinar. This webinar provided an opportunity to learn the application of probability in social network analysis. The event aimed to explore emerging opportunities for statisticians and data scientists.

Dr. Asifa Kamal, Chairperson, Department of Statistics, LCWU warmly welcomed the speaker and participants. She also acknowledged Dr. Rinert for giving her valuable time to this session.

Example: the Florentine marriage network

16 nodes, 20 edges, 3 triangles
average degree: $20/120 = 1/6$

We take this as estimate of the edge probability.

If the network is a realisation of a Bernoulli random graph then we would expect to see

$$p^3 n(n-1)(n-2)/6 = (1/6)^3 * 16 * 15 * 14 / 6 = 2.5925$$

triangles.

The observed number of triangles does not seem untypical.



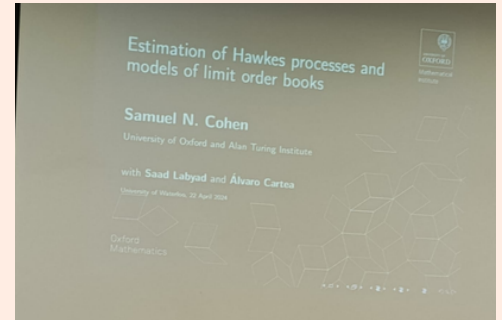
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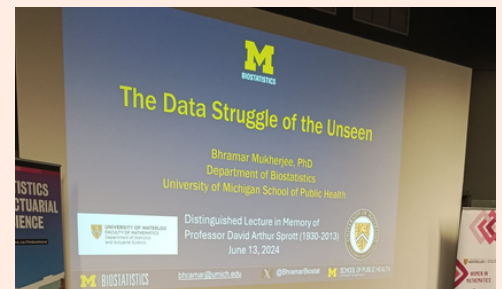
ONE-DAY SEMINAR ON "CALIBRATING HAWKES PROCESS IN FINANCIAL DATA"

Dr. Naila Amjad, Assistant Professor at Department of Statistics, LCWU attended one-day seminar on "Calibrating Hawkes process in financial data" by Samuel Cohen, Professor at University of Oxford on 22nd April, 2024.



ONE-DAY SEMINAR ON "THE DATA STRUGGLE OF THE UNSEEN"

Dr. Naila Amjad, Assistant Professor at Department of Statistics, LCWU attended one-day seminar on "The data struggle of the Unseen", by Bhramar Mukherjee, Professor of Biostatistics University of Michigan on 13th June, 2024.



WORKSHOP ON STEIN'S METHOD AND NETWORKS

Ms. Anum Hassan, Lecturer at Department of Statistics, LCWU attended a workshop on "Stein's Method and Network" on 20th-21st June, 2024 at University College London, University of Oxford during her PhD.

WORKSHOP ON QUALITATIVE RESEARCH AND DATA ANALYSIS USING NVIVO



Ms. Jiya Amir, Lecturer at Department of Statistics, LCWU attended a three-day workshop on "Qualitative Research and Data Analysis using NVivo" on 12th-14th Feb, 2024. The workshop was organized by Punjab Higher Education Commission at Hailey College of Commerce, University of the Punjab.





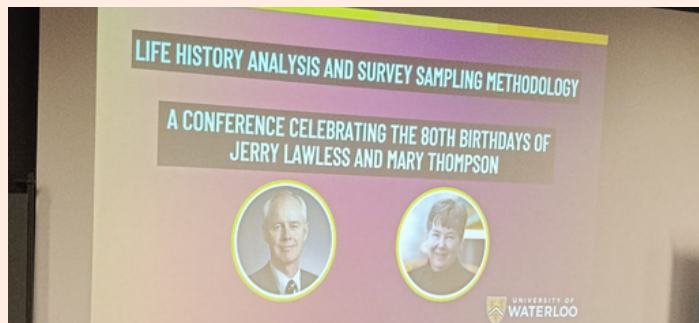
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CONFERENCE ON "LIFE HISTORY ANALYSIS AND SURVEY SAMPLING METHODOLOGY"

Dr. Naila Amjad, Assistant Professor at Department of Statistics, LCWU attended two-days conference on "Life history analysis and survey sampling methodology- during her stay at University of Waterloo for Post-Doctoral fellowship.



The conference celebrating the 80th birthday of Jerry Lawless and Mary Thompson", held on 28th -29th May, 2024 at Department of Statistics and Actuarial Science, University of Waterloo, Canada.

1ST INTERNATIONAL CONFERENCE ON RECENT TRENDS IN STATISTICS DATA ANALYTICS WITH APPLICATIONS IN NATURAL SCIENCES AT AIR UNIVERSITY

Warda Mukhtar and Rimsha Zahid, MS Students at Department of Statistics, LCWU presented their research work titled "Assessing the Impact of Household Fuel Choices on Household Energy Expenditures using Machine Learning and Classical Approach: Evidence from Household Integrated Economic Survey (HIES) 2018-2019, Pakistan" and "A comparative study of classical techniques and machine learning algorithms in predicting coronary heart disease based on dietary intake" in "1st International



Conference on Recent Trends in Statistics Data Analytics with applications in Natural Sciences" at Air University on 9th May, 2024.





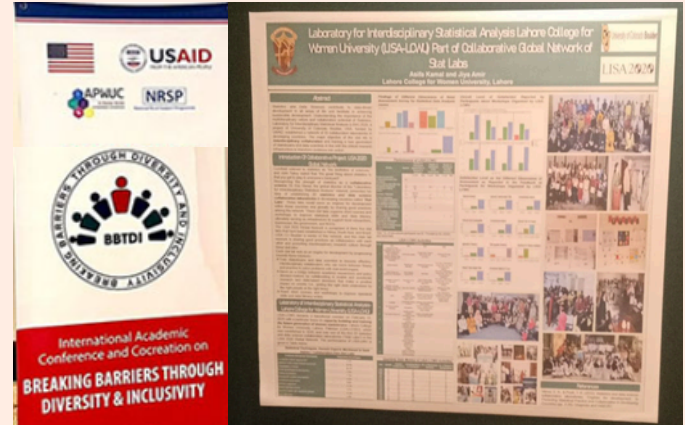
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POSTER DISPLAY AT US AID CONFERENCE

Three posters from Department of Statistics were selected for display at US AID International Conference "BREAKING BARRIERS THROUGH DIVERSITY AND INCLUSIVITY" jointly organized by National Rural Support Programme (NRSP) and the All Pakistan Women Universities Consortium (APWUC). The four-day international conference was held on 26th-29th February, 2024.



STATISTICIAN CONVENTION AT ISOSS HOUSE

Ms. Shahana Khan and Ms. Sidra Sajjad, Lecturer, Department of Statistics, LCWU attended the STATISTICIANS CONVENTION at ISOSS House, Lahore on 18th April 2024.

The purpose of the get together is to get to know each other better in a congenial, friendly environment and to have a conversation regarding collaborative efforts that can be made for the promotion of our subject in today's data-driven world.




PIDE DINNER AT SHALTON HOTEL

Dr. Asifa Kamal, Chairperson, Department of Statistics along with Ms. Shahana Khan, Ms. Sidra Sajjad, Ms. Noor Shahid and Ms. Jiya Amir, Lecturers at Department of Statistics, LCWU attended PIDE Event at Shelton Hotel on 1th Jan 2024. The purpose of the event is to get suggestions from the academia in policy making PIDE Agenda.





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WORKSHOP ON GIS AND CLIMATE MODELLING

Ms. Noor Shahid, Lecturer Statistics Department, attended two-day international workshop on "GIS and Climate Modelling" on 24th-25th June, 2024. The workshop was organized by Department of Environmental Science, LCWU.



SOCIETY FAIR 2024

Society Fair 2024, was held at LCWU on 15th May, 2024. The fair featured a range of activities designed to engage and educate the participants about the field of statistics. Interactive booths, games, and competitions were set up to make learning about statistics fun and accessible. The fair also provided a platform for students to showcase their research projects. The success of the Stats



Sorority at LCWU highlights the growing interest in the field of statistics among students and underscores the importance of fostering a supportive community for academic and personal growth.


ALUMNI DINNER 2024

A Two-Day Annual Alumni Event was organized at LCWU under the guideline of Worthy Vice Chancellor Prof. Dr. Shagufta Naz. Alumni, and students, of Department of Statistics attended two-day alumni event. Chairperson, Dr. Asifa Kamal, along with her faculty welcomed Dr. Ayesha Roohi, Ex-Chairperson, Department of Statistics and faculty of Higher Education Department. The event was organized to celebrate the old memories at LCWU and the whole gathering of Alumni was a source of immense pleasure.





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SUCCESS STORY: WHERE THERE IS A WILL, THERE IS A WAY UPGRADING THE DEPARTMENTAL SYSTEM AT LAHORE COLLEGE FOR WOMEN UNIVERSITY (LCWU), PUNJAB- PAKISTAN

 Muhammad Arsal Latif
Communication Specialist - HESSA PMU

January 5, 2024



Dr. Asifa Kamal is an Associate Professor and Chair of the Statistics Department at Lahore College for Women University (LCWU), Punjab, Pakistan. She has been associated with LCWU for just over 23 years, spanning nearly her entire professional career.



Dr. Kamal was promoted to the position of department chair in January 2021, and she eagerly accepted the responsibility with the ambition to initiate a Ph.D. program in Statistics,

forge national and international collaborations, and promote research culture in the department. "I was also interested in helping my faculty win projects and grants, and to generate resources to provide financial support for the students. An increase in students' enrollment in the various programs of the Statistics department was also one of my objectives," said Dr. Kamal.

As a department chair, she notes that one of her major challenges is time management. The lack of necessary physical and human resources in the department results in fewer research and grant writing activities due to managerial assignments as a chair.

In May 2022, Dr. Kamal was nominated by the Vice Chancellor of LCWU to attend the Department Chairs' training under USAID's Higher Education System Strengthening Activity (HESSA). This was the first time she had participated in a program designed specifically for the department heads. Since then, she has been associated with various HESSA programs. This training program emphasizes the role departmental chairs play as leaders, not just managers. The participants were required to prepare departmental plans. "For the very first time, I was able to learn about the strategic planning of a department. I prepared a strategic plan of the Statistics department with the guidance of an international mentor," shared Dr. Kamal.

Her team was struggling to bridge the gap between industry and academia. She formed an industrial advisory board comprised of internal and external stakeholders. Dr. Kamal accompanied the delegation of department chairs to the University of Utah in 2023, for a one-week exposure visit where they attended various lectures and met with U.S. academic leadership to learn from their experiences. This was a life-changing experience for Kamal. She noted that the training program transformed her approach to leadership.

<https://hessa.utah.edu/stories/success-story-where-there-is-a-will-there-is-a-way/>



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EDUCATIONAL TRIP TO MANGLA DAM

Department of Statistics, LCWU arranged one-day trip to Mangla Dam on 2nd March, 2024 as an educational activity. Ms. Sameena Irfan being focal person of student affair, Statistics Department, managed all the necessary arrangements. Faculty and Students from BS Statistics department observed the reservoir and operating process of Dam. Students enjoyed the trip and expresses gratitude towards Worthy Vice Chancellor LCWU, Prof. Dr Sagufta Naz, Chairperson Department of Statistics, Dr. Asifa Kamal, and Head of Security LCWU, Mr. Qadeer.




FAREWELL PARTY OF BS-IV

Department of Statistics, LCWU arranged a farewell party for BS IV Session 2020-2024. BS III, presented gifts to seniors. Ms. Sameena Irfan being focal person of student affair, Statistics Department, made all the necessary arrangements. Ms. Sameena Irfan also attended the event with Ms. Noor Shahid .





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MS



Syeda Aroob Shah
Gold Medalist
Session: 2021-2023

BS



Urooj Khan
Gold Medalist &
Roll of Honor
Session: 2019-2023



Tatheer Fatima
Silver Medalist &
Roll of Honor
Session: 2019-2023



Maham Mahmood
3rd Position &
Roll of Honor
Session: 2019-2023



Hajira Muzammal
4th Position
Session: 2019-2023