

MUHAMMAD YASEEN

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Profile

- ☞ **Data Scientist with twenty-four years of teaching & research experience** executing data driven decisions & solutions to increase efficiency & accuracy
- ☞ **Experienced at developing statistical models**, using predictive data modeling & analyzing data algorithms to deliver insights & implement action-oriented solutions to complex problems
- ☞ **Proficient in developing R package/software for statistical analysis & machine learning**

Work Experience

- ☞ **Postdoctoral Fellow:** School of Mathematical & Statistical Sciences, Clemson University, Clemson, South Carolina, USA (**Mar 2024 - Present**)
 - 🔗 Conduct research on **Group Testing** methodologies, contributing to innovative solutions in statistical sciences.
 - 🔗 Taught undergraduate and graduate courses in Statistics.
- ☞ **Team Lead of the Policy and Research Unit (PRU):** Asian Development Bank (ADB) Consultant at Benazir Income Support Programme (BISP), Pakistan (**Sep 2023 - March 2024**)
 - 🔗 **Strategic Leadership:** Oversaw the preparation and implementation of PRU's annual work plans, research strategies, and performance reports in alignment with BISP Board and Secretary directives.
 - 🔗 **Research & Program Design:** Developed research methodologies, supervised evaluations, and designed evidence-based poverty reduction models, including improvements to NSER, UCT, CCT, and complementary initiatives.
 - 🔗 **Stakeholder Collaboration:** Built partnerships with national and international academic/research institutions, coordinated with federal/provincial governments, and facilitated knowledge sharing through a centralized knowledge management hub.
 - 🔗 **Team Management:** Supervised PRU core teams, short-term experts, and outsourced personnel, ensuring high-quality research outputs, policy recommendations, and timely project delivery.
 - 🔗 **Policy Advocacy:** Reviewed global and national social protection literature, identified policy gaps, and supported the development of evidence-based policies and legislative frameworks.
- ☞ **Research Methodology & Monitoring & Evaluation Expert:** Asian Development Bank (ADB) Consultant at Benazir Income Support Programme (BISP), Pakistan (**Mar 2021 - March 2024**)
 - 🔗 Designed and implemented research methodologies, evaluation frameworks, and data collection tools for large-scale social protection programs.
 - 🔗 Led impact assessments, supervised data collection, & ensured high-quality data management & analysis.
 - 🔗 Produced technical reports & presented findings to stakeholders for evidence-based decision-making.
 - 🔗 Collaborated with the M&E Wing to establish monitoring systems & improve program performance.
 - 🔗 Facilitated training sessions and workshops to enhance data collection and program implementation.
- ☞ **Assistant Professor:** University of Agriculture, Faisalabad (**Feb 2014 - Mar 2021**)
 - 🔗 Delivered courses in Statistics and conducted research in Statistics.
 - 🔗 Provided statistical consulting to researchers, assisting in experimental design, survey development, and data analysis.

- ☞ **Lecturer:** University of Agriculture, Faisalabad (**Oct 2003 – Feb 2014**)
 - 📌 Taught undergraduate and graduate courses in Statistics.
 - 📌 Conducted research and contributed to academic publications.
- ☞ **Statistician:** College of Dentistry, University of Nebraska Medical Center, Lincoln-NE, USA (**Mar 2009 – May 2012**)
 - 📌 Provided statistical expertise in designing experiments, surveys, and data analysis for dental research projects.
 - 📌 Collaborated with researchers to publish findings in peer-reviewed journals.
- ☞ **Lecturer:** University of Agriculture, Faisalabad (**Dec 2002 – Oct 2003**)
 - 📌 Taught undergraduate courses in Statistics.
- ☞ **Lecturer:** Government College University, Faisalabad (**Nov 2002 – Dec 2002**)
 - 📌 Delivered lectures and supported academic activities in Statistics.

Education & Qualifications

Doctor of Philosophy (Statistics)	University of Nebraska, Lincoln-NE, USA	2012
Master of Philosophy (Statistics)	University of Agriculture, Faisalabad-Pakistan	2005
Master of Science (Statistics)	University of Agriculture, Faisalabad-Pakistan	2001

Awards & Academic Distinctions

- ☞ **Research Productivity Allowance (RPA-2012, Category G)** by the Pakistan Council of Science & Technology, Islamabad, Pakistan
- ☞ Higher Education Commission (HEC) Pakistan **Approved PhD Supervisor**
- ☞ **PhD scholarship** under the Faculty Development Program of University of Agriculture-Faisalabad
- ☞ **Teaching Assistant (TA)** at **University of Nebraska-Lincoln USA** during PhD studies
- ☞ **Research Assistant (RA)** at **University of Nebraska-Lincoln USA** during PhD studies
- ☞ **First Position in MPhil (Statistics)**
- ☞ **Second Position in MSc (Statistics)**

Software Skills

- ☞ Proficient in:

R	Python	SciPy	Pandas	SciKit-Learn	matplotlib
Seaborn	SparkR	tensorflow	SQL	L^AT_EX	markdown
git	SAS	SPSS	Eviews	Mathematica	Maxima
- ☞ Conducted **fifty-one** computer aided statistical workshops as a resource person
- ☞ On the training panel of National Institute of Banking & Finance (**NIBAF**), State Bank of Pakistan (**SBP**), Karachi, Pakistan & National Institute of Managmnt (**NIM**), Lahore, Pakistan

Research Interests

- *Data Science*, ➤ *Machine Learning*, ➤ *Statistical Modeling and Computing*, ➤ *Group Testing*,
- *Reproducible Research*, ➤ *Design and Analysis of Experiments*, ➤ *Generalized Linear Mixed Models*,
- *Multivariate Techniques and Analysis*

Publications

29 i10-index, 20 h-index & 1,680 Citations (Since 2007)

Books

1. Shah, D., Hussain, K. S., Khan, M. I., **Yaseen, M.**, Kakli, M. B., Piracha, Z. F., Zia, M. A., and Javed, M. I. (2021). *Pakistan Education Statistics 2017-18*. National Education Management Information System (NEMIS), Academy of Educational Planning & Management (AEPAM), Islamabad, Pakistan. ISBN: 978-969-444-115-3 <https://pie.gov.pk/SiteImage/Publication/PES%202017-18.pdf>, <https://myaseen208.com/PakEduStat2017-18/>.

Refereed Research Papers

1. Ali, E. A., Ghafar, A., Angeles-Hernandez, J. C., **Yaseen, M.**, Gauci, C. G., Beveridge, I., Baxendell, S., and Jabbar, A. (2025). Global prevalence of Eimeria species in goats: a systematic review and meta-analysis. *Front. Vet. Sci.* **11**(2024). <https://doi.org/10.3389/fvets.2024.1537171>.
2. Khalid, U. and **Yaseen, M.** (2023). Social Protection for Persons with Disabilities in Pakistan: Current Scenario and Contribution of BISP. *Ahi Evran Akademi* **4**(1), 75–93. <https://dergipark.org.tr/en/download/article-file/3146989>.
3. Al-Bouwarthan, M., AlMulla, A. A., and **Yaseen, M.** (2022). The impact of heat on kidney health: A PRISMA-compliant bibliometric analysis. *Medicine* **101**(36), e30328. <https://doi.org/10.1097/MD.00000000000030328>.
4. Mehmood, K., Bao, Y., Saifullah, Bibi, S., Dahlawi, S., **Yaseen, M.**, Abrar, M. M., Srivastava, P., Fahad, S., and Faraj, T. K. (2022). Contributions of Open Biomass Burning and Crop Straw Burning to Air Quality: Current Research Paradigm and Future Outlooks. *Frontiers in Environmental Science* **10**, 854292. <https://doi.org/10.3389/fenvs.2022.854292>.
5. Mubeen, A., Tanveer, A., Khaliq, A., and **Yaseen, M.** (2022). Exploiting the potential of weedy rice as value added silage under different nitrogen levels and cutting intervals. *Pak. J. Agri. Sci.* **10**(1), 93–103. https://www.researchgate.net/publication/363612920_Exploiting_the_potential_of_weedy_rice_as_value_added_silage_under_different_nitrogen_levels_and_cutting_intervals.
6. **Yaseen, M.**, Kashif, M., Nazish, H. T., Munir, R., Iqbal, J., Usman, M., and Rabbani, G. (2022). Effect of Rain-Fed Conditions on Yield of Mash Bean Genepool by Using Augmented Design. *Journal of Statistical Theory and Applications*. <https://doi.org/10.1007/s44199-022-00047-z>.
7. Bao, Y., Mehmood, K., Saifullah, **Yaseen, M.**, Dahlawi, S., Abrar, M. M., Khan, M. A., Saud, S., Dawar, K., Fahad, S., and Kh.Faraj, T. (2021). Global research on the air quality status in response to the electrification of vehicles. *Science of The Total Environment* **795**(3), 148861. <https://doi.org/10.1016/j.scitotenv.2021.148861>.
8. Chattha, W. S., Ahmad, H. B., Farooq, M. A., Shafqat, W., **Yaseen, M.**, Ihsan, M. Z., Alghabari, F., and Alzamanan, S. M. (2021). A novel parent selection strategy for the development of drought-tolerant cotton cultivars. *Plant Genetic Resources* **19**(4), 299–307. <https://doi.org/10.1017/S1479262121000332>.
9. Chishti, S. A. S., Hassan, A., Ahmad, M., Nadeem, K., Shabbir, R. H., Iqbal, M., **Yaseen, M.**, and Najeebullah, M. (2021). Effect of repeated pollination on tomato hybrid seed yield under field conditions. *J. Agric. Res.* **59** (2), 127–132. <https://journal30.magtechjournal.com/bfnyxb/EN/Y2010/V/I2/61>.
10. Fatma, S., Sabir, M., Aziz, T., Ahmad, H. R., **Yaseen, M.**, Rehman, M. Z. ur, and Hakeem, K. R. (2021). Comparison of Fine and Coarse Rice Varieties for Nickel Accumulation and Growth Response at Different Levels of Nickel. *CLEAN–Soil, Air, Water* **49** (6), 2000336. <https://doi.org/10.1002/clen.202000336>.
11. Gul, H., Ghazali, S. S. A., **Yaseen, M.**, and Qasim, H. (2021). A Study on Time Use of Nurses and Paramedical Staff, Working in Public Hospitals of District Rahim Yar Khan, Bahawalpur, Pakistan. *International Journal of Innovation, Creativity and Change* **15**(3), 931–944. https://www.ijicc.net/images/Vol_15/Iss_3/15373_Gul_2021_E1_R.pdf.
12. Haq, M. E. ul, Kamran, M., Sahib, A., **Yaseen, M.**, Anwar, M. F., Abbas, H., Chand, S. A., Hameed, A., Rashid, A., Khan, Q. A. T., Shahbaz, M. U., Abbas, W., and Ali, S. (2021). Nitrogen application accelerates the downy mildew disease severity with leaf age in canola plants. *Archives of Phytopathology and Plant Protection* **54**(19-20), 1569–1577. <https://doi.org/10.1080/03235408.2021.1929041>.

13. Jamil, S., Shahzad, R., Rahman, S. U., Iqbal, M. Z., **Yaseen, M.**, Ahmad, S., and Fatima, R. (2021). The level of Cry1Ac endotoxin and its efficacy against *H. armigera* in Bt cotton at large scale in Pakistan. *GM Crops and Food* **12**(1), 1–17. <https://doi.org/10.1080/21645698.2020.1799644>.
14. Qasim, H., Ghazali, S. S. A., **Yaseen, M.**, and Gul, H. (2021). Pensioners and their Time Use: A Case Study of District Rahimyar Khan, Pakistan. *International Journal of Innovation, Creativity and Change* **15**(3), 1050–1060. https://www.ijicc.net/images/Vol_15/Iss_3/15378_Qasim_2021_E_R.pdf.
15. Ahmad, M., Chand, S., and **Yaseen, M.** (2020). High resolution Bayesain Spatio-Temporal precipitation modelling in Pakistan for the appraisal of trends. *Pak. J. Agri. Sci.* **57** (6), 1669–1680. https://www.researchgate.net/publication/388647489_High_resolution_Bayesain_Spatio-Temporal_precipitation_modelling_in_Pakistan_for_the_appraisal_of_trends.
16. Bashir, M. R., **Yaseen, M.**, Mahmood, A., Din, A. M. ud, and Khan, Q. A. T. (2020). Adaptability trials of sesame germplasm against *macrophomina phaseolina* (tassi) goid by using AMMI Biplot analysis in Pakistan. *International Journal of Agriculture and Biology* **23**, 851–856. https://www.researchgate.net/publication/388649190_Adaptability_Trials_of_Sesame_Germplasm_against_Macrophomina_phaseolina_by_using_AMMI_Biplot_Analysis_in_Pakistan.
17. Chattha, W. S., Shakeel, A., Iqbal, M., **Yaseen, M.**, Amin, M., and Mahmood, N. (2020). Quantifying the Effect of Water Deficit on Cotton Genotypes Using Agro-physiological and Biochemical Parameters. *Journal of Natural Fibers*. <https://doi.org/10.1080/15440478.2019.1710654>.
18. Jameel, H. T., Panatik, S. A., Nabeel, T., Sarwar, F., **Yaseen, M.**, Jokerst, T., and Faiz, Z. (2020). Observed social support and willingness for the treatment of patients with schizophrenia. *Psychology Research and Behavior Management* **13**, 193–201. <https://doi.org/10.2147/PRBM.S243722>.
19. Bashir, M. R., Mahmood, A., Atiq, M., **Yaseen, M.**, Rajput, N. A., Aftab, M., Din, A. M. U., Mohsan, M., and Khan, Q. A. T. (2019). Assessment of genetic variability in mustard against *alternaria* leaf spot disease through natural field conditions. *Pakistan Journal of Phytopathology* **31** (02), 211–216. <https://pjp.pakps.com/index.php/PJP/article/view/525/277>.
20. Rehman, F., Saeed, A., **Yaseen, M.**, Shakeel, A., Ziaf, K., Munir, H., Tariq, S. A., Raza, M. A., and Riaz, A. (2019). Genetic evaluation and characterization using cluster heat map to assess NaCl tolerance in tomato germplasm at the seedling stage. *Chilean Journal of Agricultural Research* **79**(1), 56–65. <https://doi.org/10.4067/S0718-58392019000100056>.
21. Jameel, H. T., Nabeel, T., and **Yaseen, M.** (2017). Effects of training for in-hand manipulation on legibility of Urdu handwriting. *Journal of Inclusive Education* **1**, 7–18. <https://ojs.aiou.edu.pk/index.php/jie/article/view/234>.
22. Murtaza, G., Murtaza, B., Kahlon, U. Z., and **Yaseen, M.** (2017). A comparative study of different amendments on amelioration of saline-sodic soils irrigated with water having different EC: SAR ratios. *Communications in Soil Science & Plant Analysis* **48**(22), 2630–2641. <https://doi.org/10.1080/00103624.2017.1416130>.
23. Raza, M. M., Khan, M. A., **Yaseen, M.**, Munawar, A., and Sabir, Z. (2016). Exploring the Potential of Multivariate Analysis to Study the Impact of Cotton Leaf Curl Disease on Yield Traits. *Pak. J. Agri. Sci.* **53**(3), 339–347. https://www.researchgate.net/publication/305992391_Exploring_the_potential_of_multivariate_analysis_to_study_the_impact_of_cotton_leaf_curl_disease_on_yield_traits.
24. Ansari, T. M., Hanif, M. A., Rasool, T., Ali, M., Nadeem, R., and **Yaseen, M.** (2015). Reclamation of wastewater containing Cu(II) using alginate *Mentha spicata* biomass. *Desalination & Water Treatment*, 1–10. <https://doi.org/10.1080/19443994.2015.1043585>.
25. Aslam, M., Maqbool, M. A., **Yaseen, M.**, and Qamar-U-Zaman (2015). AMMI Biplot analysis for comparative evaluation of maize genotypes under different saline environments. *Pak. J. Agri. Sci.* **52**(2), 339–347. https://www.researchgate.net/publication/279527161_AMMI_biplot_analysis_for_comparative_evaluation_of_maize_Zea_may_L_genotypes_under_different_saline_environments.
26. Fatima, K., Khan, M. A., Raza, M. M., **Yaseen, M.**, Iqbal, M. A., and Shahbaz, M. (2015). Identification of resistant source in lentil germplasm against *Fusarium* wilt in relation to environmental factors. *Academic Research Journal of Agricultural Science & Research* **3**(4), 60–70. <https://doi.org/10.14662/ARJASR2015.005>, <https://www.academicresearchjournals.org/ARJASR/PDF/2015/April/Fatima%20et%20al.pdf>.
27. Jabran, K., Ullah, E., Hussain, M., Farooq, M., Zaman, U., **Yaseen, M.**, and Chauhan, B. S. (2015). Mulching Improves Water Productivity, Yield and Quality of Fine Rice under Water-saving Rice Production Systems. *Journal of Agronomy & Crop Science* **201**(2015), 389–400. <https://doi.org/10.1111/jac.12099>, <https://onlinelibrary.wiley.com/doi/abs/10.1111/jac.12099>.

28. Tanveer, A., Javaid, M. M., Irfan, M., Khaliq, A., and **Yaseen, M.** (2015). Yield Losses in Chickpea (*Cicer arietinum* L.) with Varying Densities of *Euphorbia dracunculoides* L. *Weed Science* **63**, 522–528. <https://doi.org/10.1614/WS-D-13-00049.1>.
29. Novacek, M. J., Mason, S. C., Galusha, T. D., and **Yaseen, M.** (2014). Bt transgenes minimally influence maize grain yield and lodging across plant populations. *Maydica* **59**(1), 90–95. https://www.researchgate.net/publication/262261262-Bt_transgenes_minimally_influence_maize_grain_yield_and_lodging_across_plant_populations.
30. **Yaseen, M.**, Griess, J. K., Mason, S. C., and Jackson, D. S. (2014). Potential use of GGE Bi-plot analysis to evaluate white Sorghum grain attributes for end uses. *Pak. J. Agri. Sci* **51**(1), 263–271. https://www.researchgate.net/publication/262261452-Potential_use_of_GGE_Bi-plot_analysis_to_evaluate_white_Sorghum_grain_attributes_for_end_uses.
31. Lum, A., Albrecht, J. A., **Yaseen, M.**, Litchfield, R., and Ritter-Gooder, P. (2013). Food-handling Practices and Knowledge among Families with Young Children. *Food Protection Trends* **33**(6), 358–375. <https://www.foodprotection.org/files/food-protection-trends/Nov-Dec-13-Albrecht.pdf>.
32. Novacek, M. J., Mason, S. C., Galusha, T. D., and **Yaseen, M.** (2013). Twin Rows Minimally Impact Irrigated Maize Yield, Morphology, and Lodging. *Agronomy Journal* **105**(1), 268–276. <https://doi.org/10.2134/agronj2012.0301>.
33. Shahzad, M. W., Razaq, M., Hussain, A., **Yaseen, M.**, Afzal, M., and Mehmood, M. K. (2013). Yield and Yield Components of Wheat (*Triticum Aestivum* L.) affected by Aphid feeding and sowing time at Multan, Pakistan. *Pak. J. Bot* **45**(6), 2005–2011. [https://www.pakbs.org/pjbot/PDFs/45\(6\)/23.pdf](https://www.pakbs.org/pjbot/PDFs/45(6)/23.pdf).
34. Zakria, M., **Yaseen, M.**, Muhammad, F., and Mahmood, S. (2013). Modelling Fertility Patterns of Pakistan during 1984-2007. *Pakistan Journal of Statistics* **29**(4), 479–486. https://www.researchgate.net/publication/260083176-Modelling_Fertility_Patterns_of_Pakistan_during_1984-2007.
35. Jabran, K., Ali, A., Sattar, A., Ali, Z., **Yaseen, M.**, Mubshir, H., Iqbl, J., and Munir, M. K. (2012). Cultural, mechanical and chemical weed control in wheat. *Crop & Environment* **3**(1-2), 50–53. https://www.researchgate.net/publication/260082892-Cultural_mechanical_and_chemical_weed_control_in_wheat.
36. Masood, M. A., Raza, I., and **Yaseen, M.** (2012). Estimation of Optimum Field Plot Size and Shape in Paddy Yield Trial. *Pakistan J. Agric. Res.* **25**(4), 280–287. [https://www.idosi.org/aejsr/7\(6\)12/7.pdf](https://www.idosi.org/aejsr/7(6)12/7.pdf).
37. McFarland, K. K., Reinhardt, J. W., and **Yaseen, M.** (2012). Rural dentists Does growing up in a small community matter? *The Journal of the American Dental Association* **143**(9), 1013–1019. <https://doi.org/10.14219/jada.archive.2012.0331>.
38. Griess, J., Mason, S., Jackson, D., Galusha, T., Pedersen, J., and **Yaseen, M.** (2011). Environment and Hybrid Influences on Rapid-Visco-Analysis Flour Properties of Food-Grade Grain Sorghum. *Crop Science* **51**, 1757–1766. <https://doi.org/10.2135/cropsci2010.10.0604>.
39. McFarland, K., Salama, F., and **Yaseen, M.** (2011). Access to Dental Care for Rural Children: A Survey of Nebraska General Dentists. *The Journal of Rural Health* **27**, 205–210. <https://doi.org/10.1111/j.1748-0361.2010.00333.x>.
40. Yamin, M., Tahir, A., Nasir, A., and **Yaseen, M.** (2011). Studying the impact of farm mechanization on wheat production in Punjab-Pakistan. *Soil & Environment* **30**(2), 151–154. https://www.researchgate.net/publication/260083175-Studying_the_impact_of_farm_mechanization_on_wheat_production_in_Punjab-Pakistan.
41. Griess, J., Mason, S., Jackson, D., Galusha, T., **Yaseen, M.**, and Pedersen, J. (2010). Environment and Hybrid Influences on Food-Grade Sorghum Grain Yield and Hardness. *Crop Science* **50**(4), 1480–1489. <https://doi.org/10.2135/cropsci2009.08.0463>.
42. McFarland, K., Reinhardt, J., and **Yaseen, M.** (2010). Rural Dentists of the Future: Dental School Enrollment Strategies. *Journal of Dental Education* **74**(8), 830–835. <https://doi.org/10.1002/j.0022-0337.2010.74.8.tb04939.x>.
43. Saddiqi, H. A., Iqbal, Z., Khan, M. N., Sarwar, M., Muhammad, G., **Yaseen, M.**, and Jabbar, A. (2010). Evaluation of three Pakistani sheep breeds for their natural resistance to artificial infection of *Haemonchus contortus*. *Veterinary Parasitology* **168**, 141–145. <https://doi.org/10.1016/j.vetpar.2009.10.022>.
44. Saeed, M., Iqbal, Z., Jabbar, A., Masood, S., Babar, W., Saddiqi, H., **Yaseen, M.**, Sarwar, M., and Arshad, M. (2010). Multiple anthelmintic resistance and the possible contributory factors in Beetal goats in an irrigated area (Pakistan). *Research in Veterinary Science* **88**, 267–272. <https://doi.org/10.1016/j.rvsc.2009.08.004>.

45. Arshad, M., Suhail, A., Gogi, M., **Yaseen, M.**, Asghar, M., Tayyib, M., Karar, H., Hafeez, F., and Ullah, U. (2009). Farmers' perceptions of insect pests and pest management practices in Bt cotton in the Punjab, Pakistan. *International Journal of Pest Management* **55**(1), 1–10. <https://doi.org/10.1080/09670870802419628>.
46. Saifullah, Ghafoor, A., Sabir, M., Zia-Ur-Rehman, M., and **Yaseen, M.** (2008). Removal of Lead from Calcareous Contaminated Soils by Organic Acids. *International Journal of Agriculture & Biology* **10**(2), 173–178. https://www.researchgate.net/publication/262261179_Removal_of_Lead_from_Calcareous_Contaminated_Soils_by_Organic_Acids.
47. Yasmeen, F., Mahmood, S., Hassan, M., Akhtar, N., and **Yaseen, M.** (2008). Comparative productive performance and egg characteristics of pullets and spent layers. *Pakistan Veterinary Journal* **28**(1), 5–8. https://www.pvj.com.pk/pdf-files/28_1/5-8.pdf.
48. Iqbal, Z., Sarwar, M., Jabbar, A., Ahmed, S., Nisa, M., Sajid, M., Khan, M., Mufti, K., and **Yaseen, M.** (2007). Direct and indirect anthelmintic effects of condensed tannins in sheep. *Veterinary Parasitology* **144**, 125–131. <https://doi.org/10.1016/j.vetpar.2006.09.035>.
49. Jabbar, A., Zaman, M., Iqbal, Z., **Yaseen, M.**, and Shamim, A. (2007). Anthelmintic activity of *Chenopodium album* (L.) and *Caesalpinia crista* (L.) against trichostrongylid nematodes of sheep. *Journal of Ethnopharmacology* **114**(1), 86–91. <https://doi.org/10.1016/j.jep.2007.07.027>.
50. Malik, M. A., Iqbal, Z., Javed, A., Malik, N. A., Munir, I., Ahmad, M., Bashir, T., and **Yaseen, M.** (2007). Alpha (α)-Adrenergic Blocker (Doxazosin): Role in Medical Management of Ureteric Stone. *Saudi German Hospitals Medical Journal* **2**(1), 30–35. https://www.researchgate.net/publication/260082884_Alpha_alpha-Adrenergic_Blocker_Doxazosin_Role_in_Medical_Management_of_Ureteric_Stone.
51. Munir, M., Malik, M., and **Yaseen, M.** (2007). Performance of sunflower in response to nitrogen management at different stages. *Pakistan Journal of Agricultural Sciences* **44**(1), 12–15. https://www.researchgate.net/publication/260082885_Performance_of_sunflower_in_response_to_nitrogen_management_at_different_stages.
52. Nadeem, M., Khan, M., Iqbal, Z., Sajid, M., Arshad, M., and **Yaseen, M.** (2007). Determinants influencing prevalence of louse infestations on layers of District Faisalabad (Pakistan). *British Poultry Science* **48**(5), 546–550. <https://doi.org/10.1080/00071660701573086>.
53. Raza, M. A., Iqbal, Z., Jabbar, A., and **Yaseen, M.** (2007). Point prevalence of gastrointestinal helminthiasis in ruminants in southern Punjab, Pakistan. *Journal of Helminthology* **81**(03), 323–328. <https://doi.org/10.1017/S0022149X07818554>.
54. **Yaseen, M.**, Zakria, M., Shahzad, I., Khan, M., and Javed, M. (2005). Modeling and forecasting the sugarcane yield of Pakistan. *International Journal of Agriculture & Biology* **7**(2), 180–183. https://www.researchgate.net/publication/242284065_Modeling_and_Forecasting_the_Sugarcane_Yield_of_Pakistan.

R Packages/Software

1. Hitt, B., Bilder, C., Tebbs, J., McMahan, C., and **Yaseen, M.** (2024). *PooledTesting: A Shiny App for Pooled Testing*. <https://bilder.shinyapps.io/PooledTesting/>.
2. **Yaseen, M.** and Asghar, Z. (2024). *PakNAcc: 'shiny' App for National Accounts*. <https://cran.r-project.org/web/packages/PakNAcc/index.html>. **Shiny App** available at <https://myaseen208.shinyapps.io/PakNAcc/>.
3. **Yaseen, M.**, Dilber, M. A., and Asghar, Z. (2024). *PakPC: 'shiny' App to Analyze Pakistan's Population Census Data*. <https://cran.r-project.org/web/packages/PakPC/index.html>. **Shiny App** available at <https://myaseen208.shinyapps.io/PakPC/>.
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Publications in Conference Proceedings

1. Batool, Z. and **Yaseen, M.** (2016a). Time Series Analysis and Forecasting of Water Reservoir in Pakistan. In: *14-th International Conference on Statistical Sciences, Karachi, Pakistan*. Vol. 29, pp.195–202. https://www.researchgate.net/publication/370691615_Time_Series_Analysis_and_Forecasting_of_Water_Reservoir_in_Pakistan.
2. Shafiq, F., Arif, M., and **Yaseen, M.** (2016). Impulse Response Function Analysis: An Application to Macroeconomic Data of Pakistan. In: *14-th International Conference on Statistical Sciences, Karachi, Pakistan*. Vol. 29, pp.67–76. https://www.researchgate.net/publication/388631846_IMPULSE_RESPONSE_FUNCTION_ANALYSIS_AN_APPLICATION_TO_MACROECONOMIC_DATA_OF_PAKISTAN.
3. Zafar, H., Arif, M., and **Yaseen, M.** (2016a). An Empirical Investigation of Economic Variables of Pakistan by Using Autoregressive Distributed LAG Model. In: *14-th International Conference on Statistical Sciences, Karachi, Pakistan*. Vol. 29, pp.203–214. https://www.researchgate.net/publication/388631710_AN_EMPIRICAL_INVESTIGATION_OF_ECONOMIC_VARIABLES_OF_PAKISTAN_BY_USING_AUTOREGRESSIVE_DISTRIBUTED_LAG_MODEL.
4. Naveed, M., Saifullah, Bibi, S., **Yaseen, M.**, and Murtaza, G. (2015). Grain Cadmium concentration decreased in Rice (*Oryza sativa* L.) while managing different Water Regimes. In: *International Conference on Soil Sustainability for Food Security, Univ. of Agri., Faisalabad, Pakistan*. https://www.researchgate.net/publication/388631932_Grain_Cadmium_concentration_decreased_in_Rice_Oryza_sativa_L_while_managing_different_Water_Regimes.
5. Batool, S. and **Yaseen, M.** (2014a). Spatial Analysis of Hepatitis C Epidemiology in Faisalabad District. In: *12-th International Conference on Statistical Sciences, Karachi, Pakistan*. Vol. 26, pp.391–396. https://www.researchgate.net/publication/262261178_Spatial_Analysis_of_Hepatitis_C_Epidemiology_in_Faisalabad_District.
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Abstracts Published in Conferences

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2. Saleem, S., Munir, R., and **Yaseen, M.** (2018). Empirical Comparison of Partial Least Squares, Principal Component and Ridge Regression in the presence of multicollinearity. In: *16-th International Conference on Statistical Sciences: Advances in Statistics and Data Management: It's Role in National Growth and Socio-Economic Developments, Peshawar, Khyber Pakhtunkhwa, Pakistan*.
3. Ishaq, K., Younas, M., **Yaseen, M.**, Ali, M., and Riaz, M. (2017). Effect of physical form of feed and addition of live yeast culture (*saccharomyces cerevisiae*) on the growth performance and carcass traits of beetal male kids under high input feeding system. In: *2017 International Conference on Agricultural and Food Science (ICAFS2017) & 7-th International Conference on Biotechnology and Bioengineering (7-th ICBB) ICAFS&ICBB2017, Lahore, Pakistan*.
4. Batool, Z. and **Yaseen, M.** (2016c). Time Series Analysis and Forecasting of Water Reservoir in Pakistan. In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
5. Irfan, M. and **Yaseen, M.** (2016). Bayesian network for modeling relationships among variables of neonatal sepsis. In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
6. Jameel, H. T., Nabeel, T., and **Yaseen, M.** (2016). Development of a Tool for the Assessment of English and Urdu Handwriting. In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
7. Khan, S., **Yaseen, M.**, Idress, N., and Ghamkhar, M. (2016). Structural Equation Modeling to study the relationship of Cotton fiber traits. In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
8. Khan, U. W., **Yaseen, M.**, and Arif, M. (2016). Bayesian Approach: An Alternative of Additive Main effect and Multiplicative Interaction (AMMI) model for Genotype-by-Environment Interaction (GEI). In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
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10. Munawar, A., Arif, M., **Yaseen, M.**, Ullah, S., and Ahmad, H. R. (2016). Interpolating CD Metal in Soil Using Spatial Techniques in Metropolis Areas of Faisalabad. In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
11. Nazir, N. and **Yaseen, M.** (2016). Assessing the In-control Robustness of Progressive Mean Control Chart. In: *14-th International Conference on Statistical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan*.
12. Raza, M. M., Khan, M. A., **Yaseen, M.**, and Nutter, F. (2016). Exploring the slow rusting potential of wheat genotypes against leaf and strip rust of wheat. In: *APS Annual Meeting, Tampa, Florida, USA*.
13. Rehman, F., Saeed, A., Munir, H., Shakeel, A., Saleem, M. F., Ziaf, K., **Yaseen, M.**, and Raza, M. A. (2016). Genotype × Environment interaction for NaCl tolerance in *Solanum lycopersicum* L. at seedling stage. In: *2-nd International Conference on Horticultural Sciences (ICH2016), University of Agriculture, Faisalabad, Pakistan*.
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16. Raza, M. M., Khan, A., M., **Yaseen, M.**, Atiq, M., Mushtaq, A., Ikram, A., and Riaz, K. (2015). Biorational management of leaf rust of wheat caused by *Puccinia recondita* rob.ex. Desm. f. Sp. tritici. In: *10-th Biennial International Conference of Pakistan Society for Microbiology. Microbiology and Molecular Genetics, Punjab University, Lahore, Pakistan*.

17. **Yaseen, M.** and Eskridge, K. M. (2015). Linear System of Simultaneous Equations with Random Effects. In: *International Conference on Management, Education & Social Sciences Research, University of Karachi, Karachi, Pakistan.*
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19. Chattha, W. S., Shakeel, A., Akram, H. M., Saeed, A., Saleem, M. F., and **Yaseen, M.** (2014). Evaluating genetic variability for water-deficit tolerance in *Gossypium hirsutum* L. In: *5-th International Conference on Agriculture, Food Security & Climate Change, University of Poonch, Rawalakot, Azad Kashmir, Pakistan.*
20. Ishaq, K., Younas, M., Yaqoob, M., Mirza, M. A., **Yaseen, M.**, and Rafiq, M. (2014). Effect of Dietary Protein Levels and Age of Weaning on the Growth Performance of Beetal Male Kids under High Input Feeding System. In: *International Participated Small Ruminant Congress, Konya, Turkiye.*
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22. **Yaseen, M.** and Eskridge, K. M. (2014a). Combining Experiments - A tool for selection of Superior and Stable Genotypes tested in diverse Environments. In: *12-th International Conference on Statistical Sciences, Dow University of Health Sciences, Karachi, Pakistan.*
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26. Zakria, M., **Yaseen, M.**, Muhammad, F., and Mahmood, J. (2012b). Modelling the Age Specific Fertility Rates of Rural and Urban Areas of Pakistan During 1984-2007. In: *The 12-th Islamic Countries Conference on Statistical Sciences (ICCS-12), Doha, Qatar.*
27. Abbas, R. Z., Iqbal, Z., and **Yaseen, M.** (2008). Anticoccidial Activity of Salinomycin Sodium in Broilers. In: *The 1st International Veterinary Poultry Congress, Tehran, Iran.*
28. Mustafa, G., Yasmin, I., **Yaseen, M.**, and Ullah, S. (2008). Modeling and Forecasting Gross Domestic Product Deflator for Pakistan. In: *The 4th National Conference on Statistical Sciences, University of Gujrat, Gujrat, Pakistan.*
29. Saeed, M., Iqbal, Z., Jabbar, A., **Yaseen, M.**, and Arshad, M. (2008). Anthelmintic Resistance: Beetal Goats in Punjab (Pakistan). In: *The Parasitology Conference, Kalamapura, Malaysia.*
30. Ahmad, I., Arif, M., **Yaseen, M.**, Idrees, N., Ahmad, I. J., and Hassan, M. U. (2007). Latent Variables Approach for handling Multicollinearity Problem. In: *International Conference on Statistical Sciences with Special Reference to Survival Data Analysis, G.C University Lahore, Lahore, Pakistan.*
31. Ullah, S., **Yaseen, M.**, and Arif, M. (2007). Exploring Uses and Abuses of internet by using Correspondence Analysis. In: *International Conference on Statistical Sciences with Special Reference to Survival Data Analysis, G.C University Lahore, Lahore, Pakistan.*
32. **Yaseen, M.** (2007). Comparison of proposed Estimators of Box's correction in Single Factor Experiments having three Repeated Measures on the same subjects. In: *The 3rd National Conference on Statistical Sciences and its application to Engineering, Biostatistics, Industrial, Computer & Telecom Technology, National University of Computer and Emerging Sciences FAST-NU, Lahore, Pakistan.*
33. Jabbar, A., Zaman, M. A., Iqbal, Z., **Yaseen, M.**, and Shmim, A. (2006). Anthelmintic Activity of *Chenopodium album* (L.) and *Caesalpinia crista* (L.) against Trichostrongylid Nematodes of Sheep. In: *The 9th International Congress on Ethnopharmacology, Nanning, Guangxi, P.R. China.*

Manuals

1. Khan, M. I., **Yaseen, M.**, and Arif, M. (2006). *Manual for Biometric Techniques for Agriculture Research in Pakistan using STATISTICA.* Department of Mathematics & Statistics, Univ. of Agriculture, Faisalabad.

Research & Development Grant Funding & Support

1. **Effects of Air Pollution on Performance and Attendance of School Children** Funded by Interactive Group (Pvt) Ltd. as Co-Principal Investigator (Rs 1.268 million, Running)
2. **Improved mechanism for UAF Synopses and Theses using L^AT_EX**(2017) Funded by **U.S. Pakistan Center for Advanced Studies in Agriculture & Food Security (USPCAS-AFS)** as Principal Investigator (Rs 0.623 million, 10 Month Duration)
3. **Complementing Food Security through selection of Superior & Stable genotypes of major crops** (2017) Funded by **Higher Education Commission (HES) Pakistan under National Research Programme for Universities (NRPU)** as Principal Investigator (Rs 1.686 million, 36 Month Duration)
4. **Research grant** from the Endowment Fund Secretariat at the University of Agriculture-Faisalabad, Pakistan of Rs.61,200 to organize training workshop titled **An Introduction to R-Programming Language for Statistical Computing**

Statistical Training & Workshops Offered

1. **L^AT_EX: A Typesetting for Official and Scientific Writing** held on June 13-14, 2022 at National Institute of Banking & Finance (NIBAF), Karachi, Pakistan
2. **In-Service Eight Weeks Mandatory Pre-Promotion Training Research Officer (BS-17) to Senior Research Officer (BS-18) 1st Session** held on January 29, 2021 & February 29, 2021 at Forest Services Academy Ghoragali, Murree, Pakistan
3. **In-Service Eight Weeks Mandatory Pre-Promotion Training Research Officer (BS-17) to Senior Research Officer (BS-18) 1st Session** held on January 22, 27-28, 2021 at Forest Services Academy Ghoragali, Murree, Pakistan
4. **In-Service Eight Weeks Mandatory Pre-Promotion Training Research Officer (BS-17) to Senior Research Officer (BS-18) 1st Session** held on January 19-20, 2021 at Forest Services Academy Ghoragali, Murree, Pakistan
5. **Training Course on Capacity Building of NARS Scientists in Advance Analytical Techniques** held on October 27-29, 2020 at Ayub Agricultural Research Institute (AARI), Faisalabad, Pakistan
6. **Training Course on Capacity Building of NARS Scientists in Advance Analytical Techniques** held on November 25-28, 2019 at National Agricultural Research Centre, Islamabad, Pakistan
7. **Econometrics using STATA** held during July 29, 2019 to August 2, 2019 at National Institute of Banking & Finance (NIBAF), Karachi, Pakistan
8. **1st International Workshop on Scholarly Writing and Publishing** held on March 18-21, 2019 at the University of Agriculture, Faisalabad, Pakistan
9. **Python: Programming for Statistics** held on February 18, 2019 at Department of Statistics, Bahauddin Zakariya University, Multan, Pakistan
10. **An Introduction to Statistics using SPSS** held on August 16-17, 2018 at National Textile University, Faisalabad, Pakistan
11. **Emerging Technologies in Research: Google Apps and SPSS** held on May 15-16, 2018 at Ayub Agriculture Research Institute, Faisalabad, Pakistan
12. **An introduction to R for Agricultural Research** held on May 09-11, 2018 at Ayub Agriculture Research Institute, Faisalabad, Pakistan

13. *Structural Equation Modeling with Latent Variables using R* during *Symposium on Professional Development of New Generation of Research Scholars* held on December 14, 2017 at COMSATS Institute of Information Technology, Lahore, Pakistan
14. *Applied Econometrics* during *Statistical Officers Training Scheme (SOTS-7)* held on December 12-13, 2017 at National Institute of Banking & Finance (NIBAF), Islamabad, Pakistan
15. *Statistical Methods for Researchers using R* held on August 10-12, 2017 at the University of Agriculture, Faisalabad, Pakistan
16. *Statistical Methods for Researchers using R* held on August 07-09, 2017 at the University of Agriculture, Faisalabad, Pakistan
17. *An Introduction to R & Bioconductor for Computational Biology & Bioinformatics* during one day international workshop on *Application of Computational Biology in Biotechnology* held on July 31, 2017 at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan
18. *An Introduction to L^AT_EX: UAF Synopsis and Thesis* held on July 26-28, 2017 at the University of Agriculture, Faisalabad, Pakistan
19. *Statistics for Veterinary and Animal Science using R* held on July 17-19, 2017 at the University of Agriculture, Faisalabad, Pakistan
20. *Statistics for Veterinary and Animal Science using R* held on July 17-19, 2017 at the University of Agriculture, Faisalabad, Pakistan
21. *Generalized Linear Mixed Modeling for Agricultural Sciences* held on February 25, 2017 at Bahauddin Zaria University, Multan, Pakistan
22. *Technical and Patent Writing* held on January 28, 2017 at the University of Agriculture, Faisalabad, Pakistan
23. *Generalized Linear Mixed Models using R* held on December 13, 2016 during *14-th Islamic Countries Conference on Statistical and Allied Sciences (ICCS-14)* held on December 12-15, 2016 at Multan, Pakistan
24. *An Introduction to L^AT_EX* held on December 13, 2016 during *14-th Islamic Countries Conference on Statistical and Allied Sciences (ICCS-14)* held on December 12-15, 2016 at Multan, Pakistan
25. *An Introduction to Econometrics with R* held on February 22-25, 2016 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
26. *Statistics: The Art and Science of Learning from Data* held on February 6, 2016 at the University of Agriculture Faisalabad, Pakistan
27. *Quantitative Techniques for Decision Making* during 20-th Mid-Career Management Course (MCMC) held on Aug 21, 24-25, 2015 at National Institute of Management, Lahore, Pakistan
28. *An Introduction to L^AT_EX* held on May 27, 2015 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
29. *An Introduction to R* held on May 25-26, 2015 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
30. *Structural Equation Modeling with R* held on May 24, 2015 at Iqra University, Karachi, Pakistan
31. *Generalized Method of Moments Estimation with R* held on April 06, 2015 at Iqra University, Karachi, Pakistan
32. *An Introduction to R* held on March 28, 2015 at the University of Agriculture Faisalabad, Pakistan

33. *An Introduction to L^AT_EX* held on August 13, 2014 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
34. *An Introduction to R* held on August 11-12, 2014 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
35. *An Introduction to R-Programming Language for Statistical Computing* held on May 24 to June 14, 2013 (16 Contact Hours) at University of Agriculture Faisalabad, Pakistan
36. Training Course on *Statistical and Economic Analysis of Experimental Data using Statistical Software* held on December 17-21, 2012 at Agricultural Research Institute (ARI), Muzaffarabad, AJK, Pakistan
37. *SPSS Training for Social Sciences* held on August 13-20, 2007 at University of Agriculture Faisalabad, Pakistan
38. *Design and Analysis of Agricultural Research Experiments using STATISTICA/Minitab (Biological Sciences)* held on August 06-11, 2007 at University of Agriculture Faisalabad, Pakistan
39. *Statistical and Economical Analysis of Field Experiments* held on May 21-25, 2007 at AZRE, Quetta, Balochistan, Pakistan
40. *Advanced Econometric Techniques using EViews* held on August 24-29, 2006 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
41. *Workshop on Applied Multivariate Statistical Techniques Using Different Statistical Packages* held on June 05-10, 2006 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
42. *STATISTICA Training Workshop of Biological Scientists* held on August 08-13, 2005 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
43. *SPSS Training Workshop of Social Scientists* held on August 01-06, 2005 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
44. *Advanced Biometric Techniques for Agricultural Research in Pakistan* held on June 20-25, 2005 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
45. *Training Course on Design and Analysis of Agricultural Field Experiments using STATISTICA* held on Feb 21-25, 2005 at Social Sciences Institute, National Agriculture Research Center, Islamabad, Pakistan
46. *Research Methodology and Analytical Techniques* held from 21-06-04 to 03-07-04 in the Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan

Training & Workshops Attended

1. *Consultative Workshop on Social Protection for Persons with Disabilities* organized by Benazir Income Support Programme (BISP) held on June 9, 2022 at BISP HQ Islamabad, Pakistan
2. *Consultative Workshop on Research Strategy for BSIP* organized by Benazir Income Support Programme (BISP) held on February 2, 2022 at BISP HQ Islamabad, Pakistan
3. *Introduction to TileDB for R* in *The R User Conference, useR! 2021*, during July 5-9, 2021
4. *Introduction to Responsible Machine Learning* in *The R User Conference, useR! 2021*, during July 5-9, 2021
5. *The R User Conference, useR! 2021*, July 5-9, 2021 online

6. **BISP Orientation** organized by Benazir Income Support Programme (BISP) held on June 15-17, 2021 at BISP HQ Islamabad, Pakistan
7. **UN World Data Forum 2018** organized by United Nations Statistics Division & Federal Competitiveness and Statistics Authority of United Arab Emirates held on October 22-24, 2018 at Madinat Jumeirah Conference Centre Madinat Jumeirah, Al Sufouh Road Dubai, United Arab Emirates
8. **5th Workshop on Advanced Techniques for Scientific Programming and Management of Open Source Software Packages Science** organized by The Abdus Salam International Centre for Theoretical Physics (ICTP), in collaboration Sharif University of Technology, Tehran, Iran held on March 04-15, 2017, at Sharif University of Technology, Tehran, Iran
9. **Second Consultative Workshop on Multiple Indicator Cluster Survey (MICS) Punjab 2017** held on January 31, 2017 at Faisalabad Institute of Cardiology (FIC), Faisalabad, Pakistan
10. **Technical and Patent Writing** held on January 28, 2017 at the University of Agriculture, Faisalabad, Pakistan
11. **14-th Islamic Countries Conference on Statistical and Allied Sciences (ICCS-14)** held on December 12-15, 2016 at Multan, Pakistan
12. **Four-Day Workshop on "Hybrid Course Design and Development"** organized by U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security, October 18-21, 2016, University of Agriculture-Faisalabad, Pakistan
13. **The CODATA-RDA School of Research Data Science** organized by The Abdus Salam International Centre for Theoretical Physics (ICTP), in collaboration with International Council for Science - Committee on Data for Science and Technology (CODATA), The Research Data Alliance (RDA), The World Academy of Sciences and The Association of Commonwealth Universities (TWAS), August 01-12, 2016, Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy
14. **Dialogue on Current Fertilizer Policy** organized by Food and Agriculture Organization (FAO) of the United Nations, June 06, 2016, Ramada Hotel, Islamabad, Pakistan
15. **Two-Day Workshop on "4R Nutrient Stewardship for Food, Economic and Environmental Security"** organized by Food and Agriculture Organization (FAO) of the United Nations, April 04-05, 2016, Serena Hotel, Islamabad, Pakistan
16. **14-th International Conference on Statistical Sciences** held on March 14-16, 2016 at Jinnah Sindh Medical University, Karachi, Pakistan
17. **2-nd International Conference on Horticultural Sciences (ICH2016)** held on February 18-20, 2016 at the University of Agriculture, Faisalabad, Pakistan
18. **Water Dialogue on Irrigation System of Pakistan: Challenges & Opportunities** held on February 10, 2016 at the University of Agriculture, Faisalabad, Pakistan
19. **Grant Writing Workshop - Competitive Grants Program** organized by U.S.-Pakistan Centers for Advanced Studies in Agriculture/Food Security, June 01, 2015, University of Agriculture- Faisalabad, Pakistan
20. **International Conference on Management, Education & Social Sciences Research** held on April 4-5, 2015 at the University of Karachi, Karachi, Pakistan
21. **12-th International Conference on Statistical Sciences** held on March 24-26, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
22. **Reference Management in Scientific Writings**, Oct 25, 2014 at Dept. of Physics, University of Agriculture-Faisalabad, Pakistan
23. **One day Workshop on Scientific Writing**, May 24, 2014 at Dept. of Agronomy, University of Agriculture-Faisalabad, Pakistan

24. *2-nd Annual Workshop on Scientific Writing & Plagiarism*, May 07, 2014 at the University of Agriculture-Faisalabad, Pakistan
25. *Statistical Learning*, presented by Drs. Trevor Hastie & Rob Tibshirani, January 20, 2014 to April 04, 2014 Stanford University, Stanford, CA, USA (Through Stanford Online OpenEdx)
26. *Advanced Multivariate Techniques*, March 23, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
27. *Introduction to SAS*, March 23, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
28. *Introduction to SPSS*, March 22, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
29. *Remote Sensing for Monitoring Agricultural Crops and Assessing Soil Salinity*, presented by Dr. Muhammad Waqar, February 3-15, 2014, at the University of Agriculture, Faisalabad, Pakistan
30. *Development in Applied Forecasting for Business and Economics*, presented by Dr. Muhammad Akram, January 16-17, 2013, at the University of Agriculture, Faisalabad-Pakistan
31. *Introduction to Statistical Software R*, presented by Dr. Muhammad Akram, January 15, 2013, at the University of Agriculture, Faisalabad-Pakistan
32. *Three-day Workshop on Data Analysis & Developing Research Grant Proposal*, presented by Drs. H. Anwar Ahmad & Shaukat Ali Bhatti, December 27-29, 2012, at the University of Agriculture, Faisalabad-Pakistan
33. *Learn R In-Depth*, presented by Dr. Paul Geissler, June 7 to August 25, 2011 (23 contact hours), U.S. Geological Survey
34. *Generalized Linear Mixed Model*, presented by Prof. Charles McCulloch in the *2011 Joint Statistical Meetings* on August 1, 2011 at Miami Beach Florida, USA
35. *Bayesian Inference*, presented by Prof. Bruno Sanso in the *2011 Joint Statistical Meetings* on July 31, 2011 at Miami Beach Florida, USA
36. *Analysis and Design of Agricultural Research: A Generalized Mixed Model Perspective*, presented by Prof. Walter Stroup in the *Conference on Applied Statistics in Agriculture* held on May 1-3, 2011 at Kansas State University, Manhattan, Kansas, USA
37. *Learn R by Example*, presented by Dr. Paul Geissler, October 12 to November 16, 2010 (32 contact hours), U.S. Geological Survey
38. *Fitting and evaluating mixed models using lme4*, presented by Prof. Douglas Bates in *The R User Conference, useR! 2010*, at the Gaithersburg, Maryland, USA, campus of the National Institute of Standards and Technology (NIST), during July 21-23, 2010
39. *Applied spatial data analysis with R*, presented by Dr. Virgilio Gomez-Rubi in *The R User Conference, useR! 2010*, at the Gaithersburg, Maryland, USA, campus of the National Institute of Standards and Technology (NIST), during July 21-23, 2010
40. *The R User Conference, useR! 2010* July 21-23 2010 National Institute of Standards and Technology (NIST), Maryland, USA
41. *Training for International Teaching Assistants* held on August 3-7, 2009 at University of Nebraska-Lincoln USA
42. *Faculty Development Program* held on March 27-28, 2007 at The University of Faisalabad, Faisalabad, Pakistan
43. *Workshop on Intelligent Data Analysis Methods in Functional Genomics* held on March 17-18, 2007 at Lahore University of Management Sciences, Lahore, Pakistan
44. *Workshop on Data Analysis* held on March 10-11, 2007 at Lahore University of Management Sciences, Lahore, Pakistan

45. **Workshop on Foundation of Data Mining** held on June 11-12, 2005 at Lahore University of Management Sciences, Lahore, Pakistan
46. **Staff Development Course** under the scheme National Academy of Higher Education, held from May 9-June 4, 2005 at University of Agriculture, Faisalabad, Pakistan
47. **Research Orientation Program on Research Methodology and Analytical Techniques** held on June 15-30, 2004 at University of Agriculture, Faisalabad, Pakistan
48. **Bio-Informatics, Information Technology and Bio-Statistics** held on December 27-28, 2003 at National College of Business Administration and Economics, Lahore, Pakistan
49. **EU Asia Link Project Short Course on Principles of Experimental Design and Analysis** organized by SALINE Agriculture Research Center, University of Agriculture, Faisalabad, held from December 1-12, 2003 at University of Agriculture, Faisalabad, Pakistan
50. **GRE Preparation Course of 45 teaching hours** held on 27-10-2003 to 12-11-2003 at University of Agriculture, Faisalabad, Pakistan