

Muhammad Yaseen, PhD

School of Mathematical and Statistical Sciences

Clemson University, SC 29634, USA

myaseen208.com

Research Profile

Statistician specializing in statistical methodology, computational statistics, and data science, with more than 24 years of experience across academia, public health, and policy applications.

- Author of more than 54 peer-reviewed publications, with approximately 1,900 citations (h-index: 22)
- Developer of 31 open-source CRAN R packages used in statistical research and applied analytics
- Software adoption exceeding 1,096,943 verified downloads worldwide across research, government, and public health
- Contributions implemented in COVID-19 pooled testing systems across 47 U.S. states and more than 91 countries
- Supervised 32 MPhil students as Principal Supervisor
- Initiated four academic programs (PhD Statistics, BS Statistics, BS Mathematics, MPhil Mathematics) at UAF

Research Interests

Group testing; Bayesian methods; machine learning and artificial intelligence; generalized linear mixed models; experimental design; statistical computing; reproducible research

Applied domains: agricultural statistics, biostatistics, environmental statistics, social statistics, impact evaluation

Education

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| PhD in Statistics , University of Nebraska–Lincoln, USA | 2012 |
| MPhil in Statistics , University of Agriculture Faisalabad, Pakistan | 2004 |
| MSc in Statistics , University of Agriculture Faisalabad, Pakistan | 2001 |

Professional Experience

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| Postdoctoral Fellow , School of Mathematical & Statistical Sciences, Clemson Univ., USA | Mar 2024–Present |
| PRU Team Lead (ADB Consultant) , BISP Pakistan | Sep 2023–Mar 2024 |
| Research Methodology & M&E Expert (ADB Consultant) , BISP Pakistan | Mar 2021–Mar 2024 |
| Assistant Professor , Dept. of Math & Stat, Univ. of Agriculture Faisalabad, Pakistan | Feb 2014–Mar 2021 |
| Statistician , College of Dentistry, Univ. of Nebraska Medical Center, Lincoln, NE, USA | Mar 2009–May 2012 |
| Lecturer , Dept. of Math & Stat, Univ. of Agriculture Faisalabad, Pakistan | Dec 2002–Feb 2014 |

Academic Leadership & Program Development

Chairman, Department of Mathematics & Statistics, UAF 2016–2019

- Led department of 25+ faculty members and 500+ students
- Initiated and developed four academic programs: PhD Statistics, BS Statistics, BS Mathematics, and MPhil Mathematics
- Designed curricula and developed core courses for these programs
- Implemented technology infrastructure for statistical computing
- Established international collaboration agreements

Publications

Complete list of publications available at: myaseen208.com/publications

Refereed Research Papers

55. Bilder, C. R. and Nguyen, M. and **Yaseen, M.** and Tebbs, J. M. and McMahan, C. S. (2026) Group Testing Complexity. *The American Statistician*, 00(0), 1–8. <https://doi.org/10.1080/00031305.2026.2638492>.
54. 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.

53. 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>.
52. 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>.
51. 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.2022.852492>.
50. 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.
49. **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>.
48. 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.scitoten.v.2021.148861>.
47. 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>.
46. 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.
45. 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>.
44. 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.
43. 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>.
42. 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>.
41. 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.
40. Ahmad, M., Chand, S., and **Yaseen, M.** (2020). High resolution Bayesian Spatio-Temporal precipitation modelling in Pakistan for the appraisal of trends. *Pak. J. Agri. Sci.* 57(6), 1669–1680.

39. 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.
38. 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>.
37. 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>.
36. 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.
35. 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>.
34. 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.
33. 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>.
32. 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.
31. Ansari, T. M., Hanif, M. A., Rasool, T., Ali, M., Nadeem, R., and **Yaseen, M.** (2015). Reclamation of wastewater containing Cu(II) using alginated *Mentha spicata* biomass. *Desalination & Water Treatment*, 1–10. <https://doi.org/10.1080/19443994.2015.1043585>.
30. 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.
29. 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>.
28. 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, 389–400. <https://doi.org/10.1111/jac.12099>.
27. 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>.
26. 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.
25. **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.

24. 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.
23. 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>.
22. 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.
21. 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.
20. 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.
19. 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.
18. 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>.
17. 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>.
16. 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>.
15. 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.
14. 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>.
13. 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>.
12. 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>.
11. 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>.
10. 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>.
9. 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.

8. 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.
7. 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>.
6. 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>.
5. 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.
4. 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.
3. 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>.
2. 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>.
1. **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.

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.

Publications in Conference Proceedings

7. Batool, Z. and **Yaseen, M.** (2016). Time Series Analysis and Forecasting of Water Reservoir in Pakistan. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan. Vol. 29, pp.195–202. <https://www.researchgate.net/publication/370691615>.
6. Shafiq, F., Arif, M., and **Yaseen, M.** (2016). Impulse Response Function Analysis: An Application to Macroeconomic Data of Pakistan. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan. Vol. 29, pp.67–76. <https://www.researchgate.net/publication/388631846>.
5. Zafar, H., Arif, M., and **Yaseen, M.** (2016). An Empirical Investigation of Economic Variables of Pakistan by Using Autoregressive Distributed LAG Model. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan. Vol. 29, pp.203–214. <https://www.researchgate.net/publication/388631710>.
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>.
3. Batool, S. and **Yaseen, M.** (2014). Spatial Analysis of Hepatitis C Epidemiology in Faisalabad District. In: *12th International Conference on Statistical Sciences*, Karachi, Pakistan. Vol. 26, pp.391–396. <https://www.researchgate.net/publication/262261178>.

2. Saleem, S. and **Yaseen, M.** (2014). Modeling Survival Rates of Cardiovascular Patients in Faisalabad. In: *12th International Conference on Statistical Sciences*, Karachi, Pakistan. Vol. 26, pp.397–402. <https://www.researchgate.net/publication/262261097>.
1. Zakria, M., **Yaseen, M.**, Muhammad, F., and Mahmood, J. (2012). Modelling the Age Specific Fertility Rates of Rural and Urban Areas of Pakistan During 1984–2007. In: *Proc. ICCS-12*, Doha, Qatar. Vol. 23, pp.607–618. <https://www.researchgate.net/publication/388631936>.

Abstracts Published in Conferences

33. Jabeen, S., Usman, M., and **Yaseen, M.** (2018). Factors affecting C-section deliveries in Punjab. In: *16th International Conference on Statistical Sciences*, Peshawar, Pakistan.
32. 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: *16th International Conference on Statistical Sciences*, Peshawar, Pakistan.
31. Ishaq, K., Younas, M., **Yaseen, M.**, Ali, M., and Riaz, M. (2017). Effect of physical form of feed and addition of live yeast culture on growth performance of beetal male kids. In: *ICAFS&ICBB2017*, Lahore, Pakistan.
30. Batool, Z. and **Yaseen, M.** (2016). Time Series Analysis and Forecasting of Water Reservoir in Pakistan. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
29. Irfan, M. and **Yaseen, M.** (2016). Bayesian network for modeling relationships among variables of neonatal sepsis. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
28. Jameel, H. T., Nabeel, T., and **Yaseen, M.** (2016). Development of a Tool for the Assessment of English and Urdu Handwriting. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
27. Khan, S., **Yaseen, M.**, Idress, N., and Ghamkhar, M. (2016). Structural Equation Modeling to study the relationship of Cotton fiber traits. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
26. Khan, U. W., **Yaseen, M.**, and Arif, M. (2016). Bayesian Approach: An Alternative of AMMI model for GEL. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
25. Lodhi, T. S. and **Yaseen, M.** (2016). Drought Forecasting using Seasonal ARIMA Models and Artificial Neural Networks. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
24. Munawar, A., Arif, M., **Yaseen, M.**, Ullah, S., and Ahmad, H. R. (2016). Interpolating CD Metal in Soil Using Spatial Techniques in Faisalabad. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
23. Nazir, N. and **Yaseen, M.** (2016). Assessing the In-control Robustness of Progressive Mean Control Chart. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
22. 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. In: *APS Annual Meeting*, Tampa, Florida, USA.
21. 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: *2nd International Conference on Horticultural Sciences*, University of Agriculture, Faisalabad, Pakistan.
20. Shafique, F., Arif, M., and **Yaseen, M.** (2016). Impulse Response Function Analysis: An Application to Macroeconomic Data of Pakistan. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
19. Zafar, H., Arif, M., and **Yaseen, M.** (2016). An Empirical Investigation of Economic Variables of Pakistan by using Autoregressive Distributed Lag Model. In: *14th International Conference on Statistical Sciences*, Karachi, Pakistan.
18. 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. In: *10th Biennial International Conference of Pakistan Society for Microbiology*, 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, Pakistan.
16. Batool, S. and **Yaseen, M.** (2014). Spatial Analysis of Hepatitis C Epidemiology in Faisalabad District. In: *12th International Conference on Statistical Sciences*, Karachi, Pakistan.
15. 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: *5th International Conference on Agriculture, Food Security & Climate Change*, University of Poonch, Rawalakot, Azad Kashmir, Pakistan.
14. 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.
13. Saleem, S. and **Yaseen, M.** (2014). Modeling Survival Rates of Cardiovascular Patients in Faisalabad. In: *12th International Conference on Statistical Sciences*, Karachi, Pakistan.
12. **Yaseen, M.** and Eskridge, K. M. (2014). Combining Experiments – A tool for selection of Superior and Stable Genotypes tested in diverse Environments. In: *12th International Conference on Statistical Sciences*, Dow University of Health Sciences, Karachi, Pakistan.
11. **Yaseen, M.** and Eskridge, K. M. (2014). Linear Model: A Unified Approach for Regression, ANOVA, and ANCOVA. In: *12th International Conference on Statistical Sciences*, Dow University of Health Sciences, Karachi, Pakistan.
10. **Yaseen, M.**, Eskridge, K. M., Arif, M., and Nadeem, A. (2014). Fitting Simultaneous Equations using Multivariate Approach. In: *12th International Conference on Statistical Sciences*, Dow University of Health Sciences, Karachi, Pakistan.
9. Rafiq, M., Younas, M., Ishaq, K., Yaqoob, M., Shahzad, A., and **Yaseen, M.** (2013). Effect of feeding systems on growth performance and blood urea concentration of beetal and teddy male kids. In: *Proceedings of the 2nd Workshop on Dairy Science Park*, Peshawar, Pakistan.
8. Zakria, M., **Yaseen, M.**, Muhammad, F., and Mahmood, J. (2012). Modelling the Age Specific Fertility Rates of Rural and Urban Areas of Pakistan During 1984–2007. In: *12th Islamic Countries Conference on Statistical Sciences (ICCS-12)*, Doha, Qatar.
7. Abbas, R. Z., Iqbal, Z., and **Yaseen, M.** (2008). Anticoccidial Activity of Salinomycin Sodium in Broilers. In: *1st International Veterinary Poultry Congress*, Tehran, Iran.
6. Mustafa, G., Yasmin, I., **Yaseen, M.**, and Ullah, S. (2008). Modeling and Forecasting Gross Domestic Product Deflator for Pakistan. In: *4th National Conference on Statistical Sciences*, University of Gujrat, Gujrat, Pakistan.
5. Saeed, M., Iqbal, Z., Jabbar, A., **Yaseen, M.**, and Arshad, M. (2008). Anthelmintic Resistance: Beetal Goats in Punjab (Pakistan). In: *The Parasitology Conference*, Kalampura, Malaysia.
4. 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, Pakistan.
3. 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, Pakistan.
2. **Yaseen, M.** (2007). Comparison of proposed Estimators of Box's correction in Single Factor Experiments having three Repeated Measures on the same subjects. In: *3rd National Conference on Statistical Sciences*, FAST-NU, Lahore, Pakistan.

1. 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: *9th International Congress on Ethnopharmacology*, Nanning, Guangxi, P.R. China.

Software Development (CRAN R Packages)

Complete list of R Packages available at: myaseen208.com/software

- Developed 31 R packages spanning multiple statistical domains
 - Achieved over 1,096,943 verified downloads worldwide
 - Four packages adopted as official computational companions to graduate-level statistical textbooks
32. **Yaseen, M.**, Iqbal, J., and Hanif, M. N. (2026). **mhpfilter**: Modified Hodrick-Prescott Filter with Optimal Smoothing Parameter Selection. <https://cran.r-project.org/web/packages/mhpfilter/>.
 31. Hitt, B., Bilder, C., Tebbs, J., McMahan, C., and **Yaseen, M.** (2024). **PooledTesting**: A Shiny App for Pooled Testing. <https://bilder.shinyapps.io/PooledTesting/>.
 30. **Yaseen, M.** and Asghar, Z. (2024). **PakNAcc**: shiny App for National Accounts. <https://cran.r-project.org/web/packages/PakNAcc/>.
 29. **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/>.
 28. **Yaseen, M.** and Eskridge, K. M. (2024). **StabilityApp**: Stability Analysis App for GEI in Multi-Environment Trials. <https://cran.r-project.org/web/packages/StabilityApp/>.
 27. **Yaseen, M.** and Dilber, M. A. (2023). **PakPC2023**: Pakistan Population Census 2023. <https://cran.r-project.org/web/packages/PakPC2023/>.
 26. Edmondson, R., Piepho, H.-P., and **Yaseen, M.** (2019). **agriTutorial**: Tutorial Analysis of Some Agricultural Experiments. <https://cran.r-project.org/web/packages/agriTutorial/>.
 25. **Yaseen, M.** (2019). **PakPMICS2018**: Multiple Indicator Cluster Survey (MICS) 2017–18 Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2018/>.
 24. **Yaseen, M.**, Ullah, S., and Haider, G. (2019). **SupMZ**: Detecting Structural Change with Heteroskedasticity. <https://cran.r-project.org/web/packages/SupMZ/>.
 23. **Yaseen, M.** and Usman, M. (2019). **PakPMICS2018bh**: MICS 2017–18 Birth History Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2018bh/>.
 22. **Yaseen, M.** and Usman, M. (2019). **PakPMICS2018fs**: MICS 2017–18 Children Age 5–17 Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2018fs/>.
 21. **Yaseen, M.** and Usman, M. (2019). **PakPMICS2018hh**: MICS 2017–18 Household Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2018hh/>.
 20. **Yaseen, M.** and Usman, M. (2019). **PakPMICS2018mm**: MICS 2017–18 Maternal Mortality Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2018mm/>.
 19. **Yaseen, M.** and Usman, M. (2019). **PakPMICS2018mn**: MICS 2017–18 Men Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2018mn/>.
 18. **Yaseen, M.**, Aslam, M., Ullah, S., Azam, M., Jun, C.-H., and Kashif, M. (2018). **qccrs**: Quality Control Charts under Repetitive Sampling. <https://cran.r-project.org/web/packages/qccrs/>.
 17. **Yaseen, M.**, Aslam, M., Ullah, S., and Kashif, M. (2018). **rgsp**: Repetitive Group Sampling Plan Based on Cpk. <https://cran.r-project.org/web/packages/rgsp/>.

16. **Yaseen, M.**, Crossa, J., Perez-Elizalde, S., Jarquin, D., Cotes, J. M., Viele, K., Liu, G., and Cornelius, P. L. (2018). **bayesammi**: Bayesian Estimation of AMMI Model. <https://cran.r-project.org/web/packages/bayesammi/>.
15. **Yaseen, M.** and Dilber, M. A. (2018). **ppcSpatial**: Spatial Analysis of Pakistan Population Census. <https://cran.r-project.org/web/packages/ppcSpatial/>.
14. **Yaseen, M.** and Eskridge, K. M. (2018). **stability**: Stability Analysis of Genotype by Environment Interaction (GEI). <https://cran.r-project.org/web/packages/stability/>.
13. **Yaseen, M.**, Jarquin, D., Perez-Elizalde, S., Burgueno, J., and Crossa, J. (2018). **baystability**: Bayesian Stability Analysis of GEI. <https://cran.r-project.org/web/packages/baystability/>.
12. **Yaseen, M.** and Nadeem, A. (2018). **dmai**: Divisia Monetary Aggregates Index. <https://cran.r-project.org/web/packages/dmai/>.
11. **Yaseen, M.** and Ullah, S. (2018). **eda4treeR**: Experimental Design and Analysis for Tree Improvement. <https://cran.r-project.org/web/packages/eda4treeR/>.
10. **Yaseen, M.** and Ullah, S. (2018). **gvcR**: Genotypic Variance Components. <https://cran.r-project.org/web/packages/gvcR/>.
9. **Yaseen, M.** and Dilber, M. A. (2017). **PakPC2017**: Pakistan Population Census 2017. <https://cran.r-project.org/web/packages/PakPC2017/>.
8. **Yaseen, M.** and Dilber, M. A. (2017). **PSLM2015**: Pakistan Social and Living Standards Measurement Survey 2014–15. <https://cran.r-project.org/web/packages/PSLM2015/>.
7. **Yaseen, M.** and Usman, M. (2017). **PakPMICS2014Ch**: MICS 2014 Child Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2014Ch/>.
6. **Yaseen, M.** and Usman, M. (2017). **PakPMICS2014HH**: MICS 2014 Household Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2014HH/>.
5. **Yaseen, M.** and Usman, M. (2017). **PakPMICS2014HL**: MICS 2014 Household Listing Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2014HL/>.
4. **Yaseen, M.** and Usman, M. (2017). **PakPMICS2014Wm**: MICS 2014 Women Data for Punjab, Pakistan. <https://cran.r-project.org/web/packages/PakPMICS2014Wm/>.
3. **Yaseen, M.**, Duchateau, L., Janssen, P., and Rowlands, J. (2016). **VetResearchLMM**: Linear Mixed Models for Veterinary Research. <https://cran.r-project.org/web/packages/VetResearchLMM/>.
2. **Yaseen, M.**, Eskridge, K. M., Barbosa, P., and Guo, Y. (2016). **DiallelAnalysisR**: Diallel Analysis with R. <https://cran.r-project.org/web/packages/DiallelAnalysisR/>.
1. **Yaseen, M.**, Munawar, A., Stroup, W. W., and Eskridge, K. M. (2016). **StroupGLMM**: Codes and Datasets for Generalized Linear Mixed Models. <https://cran.r-project.org/web/packages/StroupGLMM/>.

Research Funding

| | |
|--|-------------------|
| Food Security through Superior Genotype Selection | 2017–2020 |
| Higher Education Commission Pakistan (NRPU) | PKR 1.686 million |
| Principal Investigator | |
| <ul style="list-style-type: none"> • Developed statistical analysis of crop genotype stability across multiple environments • Created novel stability indices and selection methods for enhanced food security | |
| LaTeX Implementation for Academic Writing | 2017–2018 |
| US-Pakistan Center for Advanced Studies | PKR 0.623 million |
| Principal Investigator | |

- Led educational technology innovation project; modernized university thesis submission systems

Effects of Air Pollution on School Performance

Interactive Group (Pvt.) Ltd.

PKR 1.268 million

Co-Principal Investigator

- Conducted environmental health research examining impact of air quality on educational outcomes

Statistical Computing Workshop Development

2013

University of Agriculture Faisalabad

PKR 61,200

Principal Investigator

- Capacity building project for R programming education and statistical computing literacy

Teaching Experience

Clemson University, USA

• Courses Taught:

- Stat-8010 Statistical Methods I
- Stat-4110 Statistical Methods for Process Development and Control
- Math-3020 Statistics for Science and Engineering
- Stat-2300 Statistical Methods I
- Math-4020 Statistics for Science and Engineering II

University of Agriculture, Faisalabad, Pakistan

• Courses Developed and Taught:

- Stat-703 Design and Analysis of Experiments for Researchers
- Stat-705 Advanced Design of Experiments
- Stat-707 Advanced Linear Models
- Stat-711 Statistical Computing and Data Analysis
- Stat-712 Theory of Experimental Design
- Stat-722 Multivariate Statistical Inference
- Stat-709 Experimental Design-I
- Stat-710/713 Experimental Design-II

• Additional Courses Taught:

- Stat-700/701 Elements of Statistics and Biometry
- Stat-704 Probability and Distribution Theory-I
- Stat-706 Estimation and Testing of Hypotheses
- Stat-714 General Statistical Concepts
- Stat-715 Interval Estimates and Time Series
- Stat-721 Advanced Design of Experiments
- Stat-724 Statistical Models
- Stat-101/302 Bio-Statistics and Computer Application
- Stat-301/501 Introductory Statistics
- Stat-502 Experimental Designs
- Math-502 Applied Engineering Statistics
- Math-709 Introduction to Information Technology and Data Analysis
- Econ-703 Econometrics
- MBA-711 Quantitative Analysis Techniques
- BM-707 Business Mathematics and Statistics
- COM-702 Research Methods in Business
- B.Ad.-706 Business Research Methods

University of Nebraska–Lincoln, USA

• Courses Taught:

- Stat-218 Introduction to Statistics
- Stat-801 Statistical Methods in Research

Graduate Supervision

- Supervised 32 MPhil students as Principal Supervisor
- Provided supervision in research design, statistical analysis, and thesis development
- Served as PhD examiner and academic evaluator at multiple institutions
- Vice Chancellor's Nominee for PhD comprehensive examinations

Workshops Delivered

- Delivered more than 50 professional workshops at national and international institutions
 - Trained over 1,200 professionals in statistical computing and data analysis
46. **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
 45. **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
 44. **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
 43. **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
 42. **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
 41. **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
 40. **Econometrics using STATA** held during July 29, 2019 to August 2, 2019 at National Institute of Banking & Finance (NIBAF), Karachi, Pakistan
 39. **1st International Workshop on Scholarly Writing and Publishing** held on March 18-21, 2019 at the University of Agriculture, Faisalabad, Pakistan
 38. **Python: Programming for Statistics** held on February 18, 2019 at Department of Statistics, Bahauddin Zakariya University, Multan, Pakistan
 37. **An Introduction to Statistics using SPSS** held on August 16-17, 2018 at National Textile University, Faisalabad, Pakistan
 36. **Emerging Technologies in Research: Google Apps and SPSS** held on May 15-16, 2018 at Ayub Agriculture Research Institute, Faisalabad, Pakistan
 35. **An introduction to R for Agricultural Research** held on May 09-11, 2018 at Ayub Agriculture Research Institute, Faisalabad, Pakistan
 34. **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
 33. **Applied Econometrics** during Statistical Officers Training Scheme (SOTS-7) held on December 12-13, 2017 at National Institute of Banking & Finance (NIBAF), Islamabad, Pakistan
 32. **Statistical Methods for Researchers using R** held on August 10-12, 2017 at the University of Agriculture, Faisalabad, Pakistan

31. **Statistical Methods for Researchers using R** held on August 07-09, 2017 at the University of Agriculture, Faisalabad, Pakistan
30. **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
29. **An Introduction to L^AT_EX: UAF Synopsis and Thesis** held on July 26-28, 2017 at the University of Agriculture, Faisalabad, Pakistan
28. **Statistics for Veterinary and Animal Science using R** held on July 17-19, 2017 at the University of Agriculture, Faisalabad, Pakistan
27. **Statistics for Veterinary and Animal Science using R** held on July 17-19, 2017 at the University of Agriculture, Faisalabad, Pakistan
26. **Generalized Linear Mixed Modeling for Agricultural Sciences** held on February 25, 2017 at Bahauddin Zaria University, Multan, Pakistan
25. **Technical and Patent Writing** held on January 28, 2017 at the University of Agriculture, Faisalabad, Pakistan
24. **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
23. **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
22. **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
21. **Statistics: The Art and Science of Learning from Data** held on February 6, 2016 at the University of Agriculture Faisalabad, Pakistan
20. **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
19. **An Introduction to L^AT_EX** held on May 27, 2015 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
18. **An Introduction to R** held on May 25-26, 2015 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
17. **Structural Equation Modeling with R** held on May 24, 2015 at Iqra University, Karachi, Pakistan
16. **Generalized Method of Moments Estimation with R** held on April 06, 2015 at Iqra University, Karachi, Pakistan
15. **An Introduction to R** held on March 28, 2015 at the University of Agriculture Faisalabad, Pakistan
14. **An Introduction to L^AT_EX** held on August 13, 2014 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
13. **An Introduction to R** held on August 11-12, 2014 at National Institute of Banking & Finance (NIBAF), State Bank of Pakistan, Karachi, Pakistan
12. **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
11. **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

10. **SPSS Training for Social Sciences** held on August 13-20, 2007 at University of Agriculture Faisalabad, Pakistan
9. **Design and Analysis of Agricultural Research Experiments using STATISTICA/Minitab (Biological Sciences)** held on August 06-11, 2007 at University of Agriculture Faisalabad, Pakistan
8. **Statistical and Economical Analysis of Field Experiments** held on May 21-25, 2007 at AZRE, Quetta, Balochistan, Pakistan
7. **Advanced Econometric Techniques using EViews** held on August 24-29, 2006 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
6. **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
5. **STATISTICA Training Workshop of Biological Scientists** held on August 08-13, 2005 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
4. **SPSS Training Workshop of Social Scientists** held on August 01-06, 2005 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
3. **Advanced Biometric Techniques for Agricultural Research in Pakistan** held on June 20-25, 2005 at Department of Mathematics & Statistics, University of Agriculture, Faisalabad, Pakistan
2. **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
1. **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 & Professional Development

50. **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
49. **Consultative Workshop on Research Strategy for BSIP** organized by Benazir Income Support Programme (BISP) held on February 2, 2022 at BISP HQ Islamabad, Pakistan
48. **Introduction to TileDB for R** in The R User Conference, useR! 2021, during July 5-9, 2021
47. **Introduction to Responsible Machine Learning** in The R User Conference, useR! 2021, during July 5-9, 2021
46. **The R User Conference, useR! 2021**, July 5-9, 2021 online
45. **BISP Orientation** organized by Benazir Income Support Programme (BISP) held on June 15-17, 2021 at BISP HQ Islamabad, Pakistan
44. **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
43. **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
42. **Second Consultative Workshop on Multiple Indicator Cluster Survey (MICS) Punjab 2017** held on January 31, 2017 at Faisalabad Institute of Cardiology (FIC), Faisalabad, Pakistan

41. **Technical and Patent Writing** held on January 28, 2017 at the University of Agriculture, Faisalabad, Pakistan
40. **14-th Islamic Countries Conference on Statistical and Allied Sciences (ICCS-14)** held on December 12-15, 2016 at Multan, Pakistan
39. **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
38. **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
37. **Dialogue on Current Fertilizer Policy** organized by Food and Agriculture Organization (FAO) of the United Nations, June 06, 2016, Ramada Hotel, Islamabad, Pakistan
36. **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
35. **14-th International Conference on Statistical Sciences** held on March 14-16, 2016 at Jinnah Sindh Medical University, Karachi, Pakistan
34. **2-nd International Conference on Horticultural Sciences (ICH2016)** held on February 18-20, 2016 at the University of Agriculture, Faisalabad, Pakistan
33. **Water Dialogue on Irrigation System of Pakistan: Challenges & Opportunities** held on February 10, 2016 at the University of Agriculture, Faisalabad, Pakistan
32. **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
31. **International Conference on Management, Education & Social Sciences Research** held on April 4-5, 2015 at the University of Karachi, Karachi, Pakistan
30. **12-th International Conference on Statistical Sciences** held on March 24-26, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
29. **Reference Management in Scientific Writings**, Oct 25, 2014 at Dept. of Physics, University of Agriculture-Faisalabad, Pakistan
28. **One day Workshop on Scientific Writing**, May 24, 2014 at Dept. of Agronomy, University of Agriculture-Faisalabad, Pakistan
27. **2-nd Annual Workshop on Scientific Writing & Plagiarism**, May 07, 2014 at the University of Agriculture-Faisalabad, Pakistan
26. **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)
25. **Advanced Multivariate Techniques**, March 23, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
24. **Introduction to SAS**, March 23, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
23. **Introduction to SPSS**, March 22, 2014 at the Dow University of Health Sciences, Karachi, Pakistan
22. **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

21. **Development in Applied Forecasting for Business and Economics**, presented by Dr. Muhammad Akram, January 16-17, 2013, at the University of Agriculture, Faisalabad-Pakistan
20. **Introduction to Statistical Software R**, presented by Dr. Muhammad Akram, January 15, 2013, at the University of Agriculture, Faisalabad-Pakistan
19. **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
18. **Learn R In-Depth**, presented by Dr. Paul Geissler, June 7 to August 25, 2011 (23 contact hours), U.S. Geological Survey
17. **Generalized Linear Mixed Model**, presented by Prof. Charles McCulloch in the 2011 Joint Statistical Meetings on August 1, 2011 at Miami Beach Florida, USA
16. **Bayesian Inference**, presented by Prof. Bruno Sanso in the 2011 Joint Statistical Meetings on July 31, 2011 at Miami Beach Florida, USA
15. **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
14. **Learn R by Example**, presented by Dr. Paul Geissler, October 12 to November 16, 2010 (32 contact hours), U.S. Geological Survey
13. **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
12. **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
11. **The R User Conference, useR! 2010** July 21-23 2010 National Institute of Standards and Technology (NIST), Maryland, USA
10. **Training for International Teaching Assistants** held on August 3-7, 2009 at University of Nebraska-Lincoln USA
9. **Faculty Development Program** held on March 27-28, 2007 at The University of Faisalabad, Faisalabad, Pakistan
8. **Workshop on Intelligent Data Analysis Methods in Functional Genomics** held on March 17-18, 2007 at Lahore University of Management Sciences, Lahore, Pakistan
7. **Workshop on Data Analysis** held on March 10-11, 2007 at Lahore University of Management Sciences, Lahore, Pakistan
6. **Workshop on Foundation of Data Mining** held on June 11-12, 2005 at Lahore University of Management Sciences, Lahore, Pakistan
5. **Staff Development Course under the scheme National Academy of Higher Education**, held from May 9-June 4, 2005 at University of Agriculture, Faisalabad, Pakistan
4. **Research Orientation Program on Research Methodology and Analytical Techniques** held on June 15-30, 2004 at University of Agriculture, Faisalabad, Pakistan
3. **Bio-Informatics, Information Technology and Bio-Statistics** held on December 27-28, 2003 at National College of Business Administration and Economics, Lahore, Pakistan

2. **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

1. **GRE Preparation Course** of 45 teaching hours held on 27-10-2003 to 12-11-2003 at University of Agriculture, Faisalabad, Pakistan

Professional Service

- Section Editor, Pakistan Journal of Agricultural Sciences
- Editorial Board Member, Journal of University Medical & Dental College
- Reviewer for international journals in statistics, agriculture, and applied sciences
- External Examiner for postgraduate programs
- Vice Chancellor's Nominee for PhD comprehensive examinations
- Session chair and scientific committee member for conferences

Professional Memberships

- American Statistical Association (ASA)
- Islamic Countries' Society of Statistical Sciences
- Pakistan Statistical Association

Open Source & Community Contributions

- Maintainer of 31 CRAN R packages
- Active contributor to [Stack Overflow](#) and [TeX Stack Exchange](#)
- GitHub: github.com/myaseen208

Awards & Honors

- Research Productivity Award (RPA-2012)
- HEC Approved PhD Supervisor
- PhD Scholarship, University of Nebraska–Lincoln
- First Position in MPhil Statistics
- Second Position in MSc Statistics

Technical Skills

Expert: R, Python, \LaTeX , Git, Markdown

Advanced: SAS, SPSS, Mathematica, Maxima

ML/AI: Scikit-Learn, TensorFlow, SparkR

Data Visualization: ggplot2, matplotlib, Seaborn

Database: SQL, data management

Other: EViews, STATA, Minitab

Languages

Native: Urdu, Punjabi **Fluent:** English (academic and professional) **Basic:** Arabic