Curriculum Vitae

Dr. Saddam Akber Abbasi

Assistant Professor,
Department of Mathematics, Statistics and Physics
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Educational Qualification:

- 2013   Ph.D. Statistics, The University of Auckland, Auckland, New Zealand,
- 2007   M.Sc. Statistics, Quaid-i-Azam University, Islamabad, Pakistan,
- 2004   BS (Hons) Computer Science, University of Arid Agricultural Rawalpindi, Pakistan,

Work Experience

- Aug 2016 - Present   Assistant Professor, Department of Mathematics, Statistics and Physics, Qatar University, Doha, Qatar
- Sept 2013 – Jul 2016   Assistant Professor, Department of Mathematics and Statistics, King King Fahd University of Petroleum and Minerals, Dhahran, KSA
- Jan 2013 – Aug 2013   Statistical Consultant, University of Engineering and Technology, Taxila, Pakistan.
- Mar 2010 – Sep 2012   Graduate Teaching Assistant, Department of Statistics, The University of Auckland, Auckland, New Zealand.
- 2007 – 2008   Staff Demographer, Pakistan Institute of Development Economics, Islamabad, Pakistan

Teaching Interest:

Applied Regression Analysis	Time Series
Statistical Computing	Business Statistics I & II
Engineering Statistics	Applied Statistics
Mathematical Statistics	Quality Control
Applied Linear Models	Sampling Methods/Techniques
Probability	Statistical Packages
Design of Experiments	Biostatistics

Research Interest:

Quality Control	Profile Monitoring
Time Series Analysis	Nonparametric techniques
Sampling techniques	

Teaching in Qatar University

- 2016-17 Fall 2016
    STAT 241-L01 (Biostatistics) and STAT 241-L51 (Biostatistics)
    Overall Student Evaluation Score: 2.85/4
- 2016-17 Spring 2017
    STAT 231-L52 (Applied Regression Analysis), STAT 242-L01 (Demography)
    and STAT 680 (Special Topics in Statistical Process Control)

Teaching in KFUPM

- 2013-14 Term 131:
    STAT 460 (Time Series) and STAT 319 (Prob & Stat: Engrs & Scientists)
    Overall Student Evaluation Score: 8.97/10
- 2014 Term 132:
    STAT 510 (Regression Analysis) and STAT 212 (Statistics for Business II)
    Overall Student Evaluation Score: 9.38/10
- 2014-15 Term 141:
    STAT 460 (Time Series) and STAT 212 (Statistics for Business II)
    Overall Student Evaluation Score: 9.05/10

- 2015 Term 142:
    STAT 510 (Regression Analysis) and STAT 460 (Time Series)
    Overall Student Evaluation Score: 8.49/10
- 2015 Term 143:
    STAT 319 (Prob & Stat: Engrs & Scientists) and STAT 319 - Lab
    Overall Student Evaluation Score: 8.92/10
- 2015-16 Term 151:
    STAT 591 (Statistical Computing: Special Topics in Statistics) and STAT 213 (Statistical
    Methods for Actuaries)
    Overall Student Evaluation Score: 9.04/10
- 2016 Term 152:
    STAT 460 (Time Series) and Math 101 (Calculus 1)
    Overall Student Evaluation Score: 8.86/10

Thesis Supervision in KFUPM

Year	Student's Name	Thesis Title	Level	Role
2016	Abdaljabbar Dawod	On Efficient Estimation of Control Chart parameters for Normal and Autocorrelated Processes	MS	Co-Advisor
2016	Khalid S. Al-Ghamdi	Statistical approaches for validating a laboratory analytical method	MS	Co-Advisor
2016	Tahir Mehmood	Enhancing the monitoring of linear profile parameters	MS	Member
2015	Rashid Mehmood	On the generalized approaches in statistical process control	MS	Co-Advisor
2015	Richard Osei-Aning	Monitoring of serially correlated and non-normal processes	MS	Co-Advisor
2015	Ishaq A. Raji	Robust dual memory control charting schemes	MS	Member
2015	Ajibade Ganiyu Ayodele	A Multiobjective Optimization Approach for the Performance Measure of Statistical Process Control	MS	Member
2015	Jimoh O. Ajadi	On efficient approaches to design univariate and multivariate control charts for process monitoring	MS	Member

COOP Advising of Actuarial Students in KFUPM

Year	Student's Name	Organisation	Role
2014-2015	Ali Almisnid	Saudi Arabia Monetary Agency	COOP Advisor
2015-2016	Ahmad A. Al-zakari	Malath Cooperative Insurance & Reinsurance Company	COOP Advisor

Funded Research Projects in KFUPM

- 2014-2015   IN131019 – "Enhancing the performance of attributes control charts", Project Manager, Internal Research Grant, Completed.
- 2014-2015   FT131017 – "Runs rules based skewness correction control charts for non-normal processes", Co-Investigator I, Fast Track Research Grant, Completed.
- 2013-2014   JF131004 – "On dual use of auxiliary information in SPC", Project Manager, Junior Faculty Research Grant, Completed.
- 2013-2015   FT131008 – "On efficient monitoring of process parameters in SPC", Co-Investigator I, Fast Track Research Grant, Completed.

Course Coordination/Curriculum Development in KFUPM

Year	Semester	Course #	Course Name	Role
2014/2015	151	STAT 599	Seminar	Coordinator
2013/2014	141	STAT 212	Business Statistics II	Coordinator
2013/2014	132	STAT 212	Business Statistics II	Coordinator
2013/2014	132	STAT 510	Regression Analysis	Curriculum Development
2013/2014	131	STAT 460	Time Series	Curriculum Development

Committee Work in Qatar University

Year	Name of Committee	Level	Position
2016/2017	Research Committee	Department Level	Member

Committee Work in KFUPM

Year	Name of Committee	Level	Position
2015/2016	NCAAA Assessment Committee	Department Level	Member
2015/2016	Research Committee	Department Level	Member
2015/2016	Graduate Students Enhancement Committee	Department Level	Member
2015/2016	Junior Faculty Development Programme Review Committee	University Level (Adhoc)	Member
2014/2015	Admission committee for MS Applied Statistics	Department Level	Member
2014/2015	Research Committee	Department Level	Member
2013/2014	Admission committee for MS Applied Statistics	Department Level	Member

Publications

ISI Journal Publications

- **Abbasi, S. A.** (2017). Poisson progressive mean control chart. *Quality and Reliability Engineering International*. Accepted. **[ISI Impact: 1.191]**
- Osei-Aning R, **Abbasi S. A.**, Riaz M. (2017). Optimization design of the CUSUM and EWMA charts for autocorrelated processes. *Quality Reliability Engineering International*. 2017. Accepted. **[ISI Impact: 1.191]**
- Riaz, M., Mahmood, T., **Abbasi, S. A.**, Abbas, N., & Ahmad, S. (2017). Linear profile monitoring using EWMA structure under ranked set schemes. *The International Journal of Advanced Manufacturing Technology*, https://doi.org/10.1007/s00170-016-9608-y **[ISI Impact: 1.568]**
- Dawod, A. B. A., Riaz M. and **Abbasi S. A.** (2017). On model selection for auto-correlated processes in statistical process control. *Quality and Reliability Engineering International*. https://doi.org/10.1002/qre.2063 **[ISI Impact: 1.191]**
- Abujiya, M., **Abbasi, S. A.** and Riaz, M. (2016). "A new EWMA control chart for monitoring poison observations, Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**
- Osei-Aning, R., **Abbasi, S. A.** and Riaz, M. (2016). "Monitoring of serially correlated processes using residual control charts", Scientia Iranica, Accepted, Online First. [**ISI Impact: 1.025**]
- Osei-Aning, R., **Abbasi, S. A.** and Riaz, M. (2016). "Bivariate dispersion control charts for monitoring non-normal processes", Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**
- Abbasi, S. A., Ahmad, S. and Riaz, M. (2016). "On enhanced sensitivity of nonparametric EWMA control charts for process monitoring", Scientia Iranica, Accepted. [**ISI Impact: 1.025**]
- Mehmood, R., Riaz, M., Mahmood, T., **Abbasi, S. A.** and Abbas, N. (2016). "On the extended use of auxiliary information under skewnesss correction for process monitoring", Transactions of the Institute of Measurement and Control, doi:10.1177/0142331215622248 **[ISI Impact: 0.962]**
- **Abbasi, S. A.** (2015). "EWMA chart and two component measurement error", Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**
- **Abbasi, S. A.** and Riaz, M. (2015). "On dual use of auxiliary information for efficient monitoring", Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**
- Zamn, B., Riaz, M., Ahmad, S. and **Abbasi, S. A.** (2015). "On artificial neural networking based process monitoring under bootstrapping using runs rules schemes", Int J Adv Manuf Technol, 76, 311-327. **[ISI Impact: 1.458]**
- Riaz, M., Mehmood, R., Iqbal, M. R. and **Abbasi, S. A.** (2015). "On efficient skewness correction charts under contamination and non-normality, Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**
- Zaman, B., Riaz, M. and **Abbasi, S. A.** (2015). "On the efficiency of runs rules schemes for process monitoring", Quality and Reliability Engineering International, Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**

- Riaz, M., Mehmood, R., Abbas, N. and **Abbasi, S. A.** (2015). "On effective dual use of auxiliary information in variability control charts", Quality and Reliability Engineering International, Accepted, Early View. **[ISI Impact: 1.191]**
- **Abbasi, S. A.** (2014). "Monitoring analytical measurements in presence of two component measurement error", Journal of Analytical Chemistry, 69 (11), 1023-1029. **[ISI Impact: 0.479]**
- **Abbasi, S. A.**, Riaz, M., Miller, A., Ahmad, S. and Nazir, H. Z. (2014). "EWMA dispersion control charts for normal and non-normal processes", Quality and Reliability Engineering International, Early View. **[ISI Impact: 1.191]**
- **Abbasi, S. A.**, Riaz, M., Miller, A. and Ahmad. S. (2014). "On the performance of Phase I dispersion control charts for process monitoring", Quality and Reliability Engineering International, Early View. **[ISI Impact: 1.191]**
- Ahmad. S., **Abbasi, S. A.**, Riaz, M. and Abbas, N. (2014). "On efficient use of auxiliary information for control charting in SPC", Computers & Industrial Engineering, 67, 173-184. **[ISI Impact: 1.783]**
- Riaz, M., **Abbasi, S. A.**, Ahmad, S. and Zaman, B. (2014). "On efficient Phase II process monitoring charts", Int J Adv Manuf Technol, 70:2263–2274. **[ISI Impact: 1.458]**
- Ahmad, S. Riaz, M., **Abbasi, S. A.** and Lin, Z. Y. (2014). "On median control charting under double sampling scheme". European Jounral of Industrial Engineering, 8(4), 478-512. **[ISI Impact: 0.74]**
- Ahmad, S. Riaz, M., **Abbasi, S. A.** and Lin, Z. Y. (2014). On efficient median control charting. Journal of the Chinese Institute of Engineers. 37 (3), 358-375. **[ISI Impact: 0.241]**
- **Abbasi, S. A.**, Miller, A. and Riaz, M. (2013). "Nonparametric Progressive Mean Control Chart for the Monitoring of Process Target", Quality and Reliability Engineering International, 29 1069–1080. **[ISI Impact: 1.191]**
- Riaz, M., Mehmood, R., Ahmad, S. and **Abbasi, S. A.** (2013). "On the performance of auxiliary-based control charting under normality and non-normality with estimation effects", Quality and Reliability Engineering International, 29 (8), 1165-1179. **[ISI Impact: 1.191]**
- Saghir, A., Lin, Z., **Abbasi, S. A.** and Ahmad, S. (2013). "The use of probability limits of COM-Poisson charts and their applications", Quality and Reliability Engineering International, 29 (5), 759 – 770. **[ISI Impact: 1.191]**
- Ahmad, S. Riaz, M., **Abbasi, S. A.** and Lin, Z. Y. (2013). On monitoring process variability under double sampling scheme. International Journal of Production Economics. 142, 388-400. **[ISI Impact: 2.572]**
- **Abbasi, S. A.**, Riaz, M. and Miller, A. (2012). "Enhancing the performance of CUSUM scale chart", Computers & Industrial Engineering, 63, 400-409. **[ISI Impact: 1.783]**
- **Abbasi, S. A.** (2012). "Letter to the Editor: A new nonparametric EWMA sign control chart", Expert Systems with Applications, 39 (9), 8503. **[ISI Impact: 2.240]**
- **Abbasi, S. A.** and Miller, A. (2011). "MDEWMA Chart: An efficient and robust alternative to monitor process dispersion", Journal of Statistical Computation and Simulation, ifirst, DOI:10.1080/00949655.2011.601416 **[ISI Impact:0.635]**
- **Abbasi, S. A.** and Miller, A. (2011). "On proper choice of variability control chart for normal and non-normal processes", Quality and Reliability Engineering International, 28, 279 - 296. **[ISI Impact: 1.191]**
- **Abbasi, S. A.** (2010). "On the performance of EWMA chart in presence of Two Component Measurement error", Quality Engineering, Vol. 22, No. 3, 199 213. **[ISI Impact: 0.553]**

Non-ISI Journal Publications

- **Abbasi, S. A.** and Riaz, M. (2013). "On enhanced control charting for process monitoring", International Journal of Physical Sciences, 8(17), 759-775.
- Ahmad, S., Lin, Z., **Abbasi, S. A**., and Riaz, M. (2012). On efficient monitoring of process dispersion using interquartile range. Open Journal of Applied Sciences, 2, 39-43.
- Riaz, M. and **Abbasi, S. A.** (2009). "Ginis Mean Difference Based Time-Varying EWMA Charts", Economic Quality Control, Vol 24 , No. 2, 269 286.
- **Abbasi, S. A.** and Riaz, M. (2007). "Fast Initial Response in EWMA charts", InterStat, December #2.
- Riaz, M. and **Abbasi, S. A.** (2007). "Gini mean difference and EWMA charts", InterStat, December #3.
- Riaz, M. and **Abbasi, S. A.** (2007). "On effect of time varying control limits", InterStat, September #1.

Book Chapters (refereed)

- **Abbasi, S. A.** and Miller, A. (2012). "An Efficient Dispersion Control Chart", IAENG Transactions on   Engineering Technologies, Lecture Notes in Electrical Engineering, Volume 170, 2013, pp 61-70, Springer.
- **Abbasi, S.** A. and Miller, A. (2011). "Increasing the Sensitivity of Variability EWMA Control Charts", Electrical Engineering and Applied Computing, 1st Edition., VI, 739, Springer.

Conference Publications and Presentations

- **Abbasi, S. A.** (2015). "On robustness of progressive mean control chart", Eight International Workshop on Simulation, Sept 21-25, 2015, Vienna, Austria.
- **Abbasi, S. A.** and Miller, A. (2011). "D Chart: An Efficient Alternative to Monitor Process Dispersion", Proceedings of the World Congress on Engineering and Computer Science 2011 Vol II, WCECS 2011, October 19-21, 2011, pages 933-938, San Francisco, USA.
- **Abbasi, S. A.** and Miller, A. (2011). "Sensitivity of EWMA control charts", New Zealand Statistical Association Conference (NZSA 2011), 28-31 August, 2011, Auckland, New Zealand.
- **Abbasi, S. A.** (2010). "On sensitivity of EWMA chart for monitoring process dispersion", Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering 2010, Vol III, WCE 2010, 30 June - 2 July, pages 2027-2032, London, U.K.
- Riaz, M. and **Abbasi, S. A.** (2008). "Gini's mean difference based time varying EWMA charts", 4th International Conference on Statistical Sciences, University of Gujrat & ISOSS, May 9-11, 2008, Gujrat, Pakistan.

- Mehmood, T., Abbasi, S. A., Riaz, M. and Abbas, N. (2017). Phase-I analysis of linear profile parameters under ranked set strategies. *Quality Engineering.* Submitted.
- Osei-Aning R, **Abbasi S. A.**, Riaz M. (2017). Mixed EWMA-CUSUM and Mixed CUSUM-EWMA modified control charts for monitoring first order Autoregressive processes. Quality Technology and Quantitative Management. Submitted.

Seminars

- **Abbasi, S. A.** (2016). "Graphics Control in R", Qatar University, Doha, Qatar
- **Abbasi, S. A.** (2014). "On the performance of Phase I dispersion control charts for process monitoring", King Fahd University of Petroleum and Minerals, Dhahran, KSA.
- **Abbasi, S. A.** (2011). "R as an efficient statistical tool", Department of Statistics, Quaid-i-Azam University, Islamabad, Pakistan.
- **Abbasi, S. A.** (2010). "Efficient and robust control charts for monitoring process dispersion", Department of Statistics, The University of Auckland, Auckland, New Zealand.

Seminars/Workshops Attended in Qatar University

Date	Seminar/Workshop Title	Type	Offered by
07-Nov-16	OR2: Orientation workshop for new faculty: Academic Integrity	Seminar	OFID, Qatar University
23-Oct-16	BB7: Orientation workshop for new faculty – Online tests	Workshop	OFID, Qatar University
04-Oct-16	World café and Lynda.com	Workshop	OFID, Qatar University
02-Oct-16	BB5: Blackboard grade centre	Workshop	OFID, Qatar University
27-Sep-16	First year focus program: Teaching first year students effectively	Seminar	OFID, Qatar University
20-Sep-16	Flipped classroom, theory and cases of implementation	Seminar	OFID, Qatar University
05-Sep-16	Navigating Qatar University: What do I need to know	Seminar	OFID, Qatar University
05-Sep-16	BB1: Introduction to Blackboard 9.1	Workshop	OFID, Qatar University
05-Sep-16	OR4: QU Students	Seminar	OFID, Qatar University

Seminars/Workshops Attended in KFUPM

Date	Seminar/Workshop Title	Type	Place
16-Aug-15	On designing a course instructional plan	Workshop	KFUPM
13-Aug-15	Blackboard 9.1 Essentials	Seminar	KFUPM
22-Apr-15	RT Lab and its role in SQC	Presentation	RT Lab Aramco

1-Apr-15	Health Insurance and Actuarial Science at Bupa Arabia	Presentation	KFUPM
1-Apr-15	The Actuarial Experience at the Financial Regulator	Presentation	KFUPM
25-Aug-14	KFUPM Active Learning Classroom Project	Seminar	KFUPM
24-Aug-14	Introduction to Blackboard 9.1	Seminar	KFUPM
18-Aug-14	Best practices in writing MCQ	Seminar	KFUPM
30-Apr-14	Functioning of RT Lab with reference to SQC	Presentation	RT Lab Aramco
19-Feb-14	Instructional objectives	Seminar	KFUPM
18-Nov-13	Classroom Assessment/ Formative Evaluation	Seminar	KFUPM
26-Aug-13	Teaching Engineering Design	Seminar	KFUPM
25-Aug-13	Equipping Students to be Leaders in the Global Workforce	Seminar	KFUPM
21-Aug-13	Assessing Students in Formal and Informal Cooperative Learning	Seminar	KFUPM

Computer Skills

- Software: R, SPSS, MINITAB, EVIEWS, SAS, MATLAB
- Other Software: LaTex, MS Office

Distinctions/Awards

- Certificate of Merit (Student) Award for The 2010 International Conference of Manufacturing Engineering and Engineering Management, WCE 2010, 30 June - 2 July, 2010, London, U.K.

- New Zealand International Doctoral Research Scholarship holder 2008

- 1st Position in M.Sc. Statistics, Quaid-i-Azam University, Islamabad, Pakistan, 2007.

Reviewed Articles for

Journals

- Journal of Applied Statistics, Taylor & Francis.
- Quality and Reliability Engineering International, Wiley.
- International Journal of Production Research, Taylor & Francis.
- Journal of Statistical Computation and Simulation
- Testing and Evaluation
- International Journal of Agricultural and Statistical Sciences, Connect.
- Statistics and Operations Research Transactions (SORT), Institut d'Estadistica de Catalunya.

Conferences

- The International Conference of Computational Statistics and Data Engineering (ICCSDE), WCE 2011, London, U.K. during 6-8 July, 2011.
- The International Conference of Manufacturing Engineering and Engineering Management (ICMEEM), WCE 2011, London, U.K. during 6-8 July, 2011.

References

- Dr. Arden Miller
  Senior Lecturer: Department of Statistics, The University of Auckland,
  Auckland, New Zealand.
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  Ph (off): +64 9 373 7599 ext 85053

- Dr. Muhammad Riaz
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  University of Petroleum & Minerals, Dhahran, KSA.
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  Ph (off): +966 13860 7622; Ph(home): +966 13860 6730

- Dr. Anwar Joarder*
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  Dhaka, Bangladesh.
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  Phone: +8801755429647

  *(Dr. Anwar Joarder served Department of Mathematics and Statistics, KFUPM for 16 years before moving to University of Liberal Arts)