

ABDUL WAJID RANA

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Statistical Sciences,
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OBJECTIVE To secure a full time faculty position in a reputed educational institution.

**SUMMARY OF
SKILLS**

- Extensive coursework in Theoretical as well as Applied Statistics.
- Over forty three years of experience in teaching graduate and undergraduate courses in Pakistan and United States.
- Proficiency in using statistical analysis software packages, operating systems and hardware platforms.

EDUCATION

Doctor of Philosophy (Statistics)
(August 1994) Iowa State University, Ames, USA.
Specialization : Statistical Quality Control

Master of Science (Social Statistics)
(January 1984) University of Southampton, United Kingdom
Specialization : Survey Sampling

Master of Science (Statistics)
(December 1974) University of the Punjab, Lahore, Pakistan
Grade A (Overall First Rank, Gold Medal)

**TEACHING
EXPERIENCE**

Professor & Director of Center for Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, Pakistan (January 2006-Present)

- Teaching a variety of graduate courses in Statistics, Statistical Quality Control and Time series Analysis and Forecasting. Also teaching Applied Multivariate Statistics to MPhil in Business Administration. Supporting research activities by reviewing statistical techniques intended to be used by the faculty and researchers and assisting in conducting surveys in this regard.

Professor-Department of Statistics, Bahau-ud-Din Zakariya University, Multan, Pakistan (October 76-December 2005)

- Teaching a variety of graduate courses in Econometrics, Sampling Theory, Research and Survey Methods, Operations Research, Advanced Probability Theory, Statistical Inference, Population Analysis, Statistical Quality Control and Statistical Computations.
- Conducting courses of Business Mathematics and Statistics, Operation Research, Quantitative Techniques and Business Research Methods in Institute of Management Sciences, Department of Economics, Department of Commerce, Department of Sociology and Department of Psychology and Institute of Cost Management Accountants of Pakistan.

***Lab Instructor / Teaching Assistant-Department of Statistics
Iowa State University-Ames USA (May 1993 - August 1994)***

Assisted the faculty in the following graduate and undergraduate level courses:
Statistical Theory for Research Workers, Statistics for Social Sciences,
Elementary Statistics.

Lecturer-*Institute of Statistics, University of the Punjab, Lahore, Pakistan (January 75 - September 76)*
Taught graduate courses in Econometrics, Probability Theory and Demographic Techniques.

ADMINISTRATIVE •Dean Faculty of Basic Sciences. Director, Centre for Mathematics and Statistical Sciences, Lahore School of Economics, Lahore since January 1, 2006.

EXPERIENCE

- Chairman - *Department of Statistics Bahauddin Zakariya University Multan (1979 – 1980).*
- Superintendent – *Mariam Hall and Usman Hall (1997 – 2004).*
- Secretary – *Departmental Admission Committee.*

ACADEMIC HONOR M.Sc. Statistics: *Overall 1st Position in the university and was awarded University Gold medal (1974)*

COMPUTING SKILLS

Languages	FORTRAN, BASIC, C++.
Software	SAS, Minitab, SPSS, NAG & IMSL Libraries and Spread Sheet Programs
Systems	Windows, DEC Workstations, Hitachi Data Systems(HDS) AS/9180 running MVS/XA, IBM PS/2, Macintosh

RESEARCH THESIS & PUBLICATIONS

Doctor of Philosophy, Iowa State University, Ames, Iowa, U.S.A.
“Estimation of Variance in Repeated Samples of Size $n=1$ ”
 (Worked under the supervision of Prof. Stephen Vardeman.)
Master of Science, University of Southampton, United Kingdom
“Comparing Domain Means in two Stage Sampling under Superpopulation Models”
 (Worked under Prof. Holt, Chairman of the Social Statistics Department)

- “Marginal Benefits and Cost of Fertilizer Subsidy in Pakistan”
Economic Journal, Government College, Lahore. Vol. 28 (2+1) / 1995.
- “Bayes Estimator of Variance using Gibbs Sampler in repeated samples of Size one.” Journal of Pure and Applied Sciences, Vol.16, No.2 (1997).
- “Asymptotic Properties of the Mean Moving Range of observations with different Population Means.” Pakistan Journal of Statistics Vol.14, No.2 (1998).
- “Relative Variance Covariance Matrix as an alternative to Variance Covariance and Correlation Matrices in Principal Component Analysis” Journal of Applied Statistical Sciences Vol.17, No.1(1998).
- “Some properties of Mean Moving Range as an estimator of Standard Deviation of observations with different Population Means.” Scientific Khyber Vol. 11, No.2 (1998).
- “Maximum Likelihood Estimators of Variance in repeated samples of Size one.” Journal of Pure and Applied Sciences. Vol.17, No.2 (1998).

- “Comparing Domain Means in two Stage Sampling using Superpopulation models.” Pakistan Journal of Statistics Vol.14, No.3 (1998).
- “Ultrasonographic Estimation of Fetal weight.” The Professional, Vol 5, No.4 (1998)
- “Study of Impact of Clustering on Estimation of Difference in Domain Means using Model based Approach.” Journal of Pure and Applied Sciences. Vol.18, No.2 (1998).
- “Estimation of Sigma based on the Moving range of two consecutive observation not Independently and Identically distributed.” Research Journal (Science), Baha-ud-Din Zakariya University, Multan, Vol.10, No.1, 2 (1999).
- “The G/M/r Machine Interference Model with a Mixture of Priority and Ordinary Machines” Pakistan Journal of Statistics Vol.16, No.3 (2000).
- “Effect of Salinity and SAR of Irrigation Water on Yield, Physiological growth parameters of Maiz (ZEA MAYSL) and properties of the soil.” Research Journal (Science), Baha-ud-Din Zakariya University, Multan, Vol.12, No.1, 2 (2001).
- “Brackish Water for Irrigation II: Effects on Yields of Wheat and Properties of Bhalwal Soil Series” International Journal of Agriculture and Biology, Vol.4, No.3 (2002).
- “Response of Okra (Abelmoschus esculentus L.) to EC and SAR of Irrigation Water.” International Journal of Agriculture and Biology, Vol.4, No.3 (2002).
- “Evaluation of Water Quality Guidelines for different Soil Series.” Research Journal (Science), Baha-ud-Din Zakariya University, Multan, Vol.14, No.1 (2003).
- “Comparative Distributions of Hazard Modeling Analysis.” Pakistan Journal of Statistics and Operation Research, Vol.2, No.2 (2006)
- “Factors Affecting Financial Advisor’s Perception in Portfolio Management: With Reference To Pakistan” Presented at the Oxford Business and Economics Conference held in Oxford, England, June 24-26, 2009.
- “Impact of IT Software systems on Organizational Performance: An Overview of Pakistani Companies.” Journal of Agriculture and Social Sciences, Vol. 5, No. 1,2 (2009).
- “Application of Islamic banking instrument (Bai Salam) for agriculture financing in Pakistan”, British Food Journal, Vol. 111, No.3 (2009)
- “Information Technology in Pakistan: An Analysis of Problems Faced in IT Implementing by Pakistan’s Banking and Manufacturing Companies”, Pakistan Journal of Social Sciences, Vol. 29, No.1 (2009)
- “Relationship between Demographic Characteristics and Burnout among Public Sector University Teachers of Lahore” Interdisciplinary Journal of Contemporary research in Business, Vol. 3, No.4 (2011)

- “Relationship between Demographic Characteristics and Work Engagement among Public Sector University Teachers of Lahore” Interdisciplinary Journal of Contemporary research in Business, Vol. 3, No.6 (2011)

- “The big five personality traits and their relationship with work engagement among public sector university teachers of Lahore” African Journal of Business Management, Vol. 7(15) (2013)

Graduate Student Advisor, Baha-ud-Din Zakariya University, Multan, Pakistan.

“Age at Marriage in Multan City during 1987”: Survey Report”

“Fertility Levels among Working Women”: Survey Report”

"Impact of Family Planing Program": Survey Report

**RELEVANT
COURSEWORK**

Statistical Methods

Multivariate Analysis

Linear Models

Statistical Quality Control

Statistical Computations

Time Series Analysis

Contingency Tables Analysis

Design of Experiments

Response Surface Methodology

Real Analysis

Probability Theory I & II

Estimation & Hypothesis Testing I & II

Advanced Calculus

Survey Sampling

Medical Statistics

Causal Models

Demographic Techniques