

Prof ZUHAIR A. AL-HEMYARI

Professor

Mathematical and Physical Sciences - Statistics Section

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Time at UoN: Since 2005

Marital Status: Married.

Zuhair A. Al-Hemyari is currently a full Professor of Statistics at University of Nizwa, Oman. He holds a PhD in Mathematical Statistics from The Indian Institute of Technology. He worked as a full Professor and Expert of research and studies at the Ministry of Higher Education, Oman(2011-2019) and as a full Professor at Nizwa University (2019- and from 2005-2011)and Baghdad university (1990-2005). His basic research interests are inference with preliminary test, Bayesian-shrinkage procedures, reliability theory, modelling, data analysis, quality audit of HEIs, reliability management, quality and knowledge management, measuring and analysing the performance of HEIs. Beside teaching and academic administration, he published more than 100 papers, supervised 25 MSc and PhD students, and participated in 45 international conferences. He delivered 42 Workshop & Lectures Delivered From 2011-2019 he was an Academic Advisor and Project Executor of several projects of the MoHE, Oman.

Prof- ZUHAIR UoN CV.pdf

Academic Qualifications

Certificate in Teaching Methods and Techniques, Baghdad University, 1990

M.Sc., University of Baghdad, 1978

B.Sc., University of Al-Mustansiryah, 1976

Ph.D.in Statistical Inference, Indian Institute of Technology, New Delhi

Teaching Activities

Special Topic in Statistical Inference using Statistical Software, 2006-2011

Special Topic in Data Analysis using Statistical Software, 2007-2011

Special Topic in Applied Linear Models using Statistical Software , 2007-2011

Time Series Analysis, 2006-2011

Information Theory, 2000-2005; 2007-2011

Hypothesis Testing, 1990-2005; 2007-2011

Estimation Theory , 1990-2005; 2007-2011; 2019-

Stochastic and Random Process, 1990-2005; 2007-2011

Mathematical Statistics, 1983-1985; 1989-2004; 2005-2011

Reliability Theory, 1990-2004; 2005-2011

Forecasting methods for Business, 1979-2004; 2005-2011

Probability, 1979-2004; 2005-2011

Computational Techniques in Statistics, 1990-2004; 2005-2011; 2019-

Quality Control, 1990-2005

Statistical Methods , 1979-1985; 2005-2011

Statistics for Education, 1990-2005;2005-20011; 2019-

Basic Statistics, 1979-1985; 1990-2000; 2005-2011; 2019-

Research Activities

- Research Interests

Shrinkage Methods

Bayesian- Shrinkage Procedures

Single and Double-stage Sampling Techniques

Reliability Theory and Applications

Modeling and Optimization

Data Analysis

Statistical/Performance Indicators

Quality Assurance/Audit

Knowledge management of HEIs

Intellectual capital of HEIs

Performative models for HEIs quality

Ranking models of HEIs

- Publications

Article:

1. 2019 A Class of Always Pooling Shrinkage Testimators for the Weibull Model., Int. J. Mathematics in Operational Research, Vol. 14, No. 3, pp. 407-432 (Inderscience).

2. 2019 A knowledge management model for enhancingquality and performance of higher education institutions: insights from Oman. , Int. J. of Quality and Innovation, Vol. 4 No. ½, pp.99-119 (Inderscience).

3. 2019 A TSST of the Reliability Function for Exponential Failure Model Using Type II Censored Data with Minimum Cost of Experimentations, Int. J. Reliability and Safety, Vol. 13, No. 3, 2019, pp.211-234 (Inderscience).

4. 2018 Information Management Model for Intellectual Capital of HEIs in Oman: Theoretical Quantitative Approach and Practical Results. , J. of Information and Knowledge Management, Vol. 17, No. 1, pp.1-38. (World Scientific).

5. 2017 Students' Perceptions and Expectations in Quality Teaching of Private HEIs: Comparative Study., The fourth OQNHE Conference 2017, Muscat, pp.1-14.

6. 2017 Al-Farahidi Performative model to assess HEIs. , The fourth OQNHE Conference 2017, Muscat, pp.1-15.

7. 2017 HEIs Quality Improvement Through Students and Academic Staff's Perception: Data Analysis and Robustness of the Results., International Journal for Quality Research, Vol.11, No.2, pp.261-278(Indexed in Elsevier).

8. 2017 Quality Teaching of Private HEIs: Comparative Study based on Students' Perceptions and Expectations. , Int. J. of Quality and Innovation, Vol. 3, Nos. 2/3/4, pp. 209-228 (Inderscience).

9. 2016 Validity and Reliability of Students and Academic Staff's Surveys to Improve Higher Education. , Educational Alternatives, Journal of International Scientific Publications, Vol.14, pp. 242-263 (Bulgaria).

10. 2016 A Framework for Fostering the Quality of HEIs: Data Collection, Evaluation, Indication and Validation., Int. J. of Quality and Innovation, Vol.3, No.1, pp.42-66 (Inderscience).

11. 2016 Two classes of Bayes-shrinkage estimators for Weibull lifetime model. , Int. J. of Data analysis Techniques and Strategies, Vol.8, No.2, pp.161-182 (Inderscience).

12. 2016 A TSST of the Mean of Exponential Model with Minimum Cost of Experimentations. , Int. J. of Reliability and Safety Vol. 10, No. 4, pp.285-308 (Inderscience).

13. 2015 Enhancing metacognition skills of higher education students: Methodology, statistical analysis and survey outcomes. , Int. J. of Information and Decision sciences. Vol. 7, No. 1, pp.71-98 (Inderscience).

14. 2015 Developing and Establishing Statistical Indicators for Fostering the Quality of Omani HEIs. , International Journal for Cross-Disciplinary Subjects in Education (IJCDSE), Volume 6, Issue 2, pp. 2142-2151 (The Infonomics Society, Ireland).

15. 2015 Performance Measurement in Private HEIs: Performance Indicators, Data Collection and Analysis., Proceedings of the Conference "The Future of Education", pp. 511-516 (Italy).

16. 2015 Standards, benchmarks and qualitative indicators to enhance the institution's activities and performance: Surveys and data analysis., International Journal of Knowledge-Based Organizations (IJKBO), Vol.5, No.4, pp.38-62 (IGI, USA).

17. 2015 Efficient, Simulation and modified shrinkage procedure for the simple linear regression model. , Int. J. of Data analysis Techniques and Strategies, Vol.7, No.3, pp.253-283(Inderscience).

18. 2015 Computational Procedures for Exponential Life Model Incorporating Bayes and Shrinkage Techniques., Int. J. of Reliability and Applications, 16 (2), pp.55-78 (Reliability Association, South Korean)

19. 2014 Goals and objectives: Statistical techniques and measures for performance improvement of HEIs in Oman., Int. J. of Management in Education. Vol. 8, No. 3, pp.244–264(Inderscience).

20. 2014 Optimized shrinkage estimators of reliability function in a failure-time model with prior information and time censored data. , Journal of Risk and Reliability, Vol. 228, No. 6, pp. 578–589 (SAGE, London).

Faculty Administrative Experience

2011 - 2019: Expert of research and studies and Full Professor - Office of the Undersecretary, Ministry of Higher Education, Oman

• Submitted recommendations to H.E. the Minister of Higher Education and H.E. the Undersecretary regarding the regular activities related to HEIs. • Studied and submitted recommendations to H.E. the Minister of Higher Education and H.E. the Undersecretary regarding the emerging issues related to higher education. • Principal Investigator and Scientific Advisor of several funded projects by the Ministry of Higher Education, Sultanate of Oman. • Reviewed projects to be implemented by the Ministry of Higher Education and submitted opinion reports. • Reviewed the draft reports and publications of the Ministry of Higher Education. • Member of 15 committees of the Ministry of Higher Education, and • Published eighteen papers to different international journals and conferences based on the performance/ranking/skills indicators projects.

2010 - 2010: Acting Head, Dept. of Mathematical and Physical Sciences - College of Sciences and Arts, University of Nizwa,

(Period from June 2010 to Sep. 2010)

2010 - 2011: Acting Head, Dept. of Mathematical and Physical Sciences - College of Sciences and Arts, University of Nizwa

(Period from Dec. 2010 to Fab. 2011)

2009 - 2009: Acting Head, Dept. of Mathematical and Physical Sciences - College of Sciences and Arts, University of Nizwa

(Period from June 2009 to Sep. 2009).

2005 - 2011: Head of Statistics section. - College of Sciences and Arts, University of Nizwa

As below.

2005 - 2007: Head of Mathematical and Physical Sciences. - University of Nizwa

• Planned and coordinated the preparation and publication of required accreditation documents, • Supervised the running of the Department of Mathematics and proposed ways of enhancing its performance. • Prepared Vision, Mission, Objectives, and Key Performance Indicators (KPIs) for the department as required by Oman Accreditation Council. • Proposed Degree Programs, initiated and established the design of BSc and Diploma in Statistics Program. • Prepared recruitment plans, appointed members for Search Committee, established recruitment procedure, recruited new faculty for the department. • Conducted meetings, seminars and workshops for the department/college/university staff. • Taught many undergraduate courses in the DMPS and postgraduate courses in the College of Arts and Science (Please refer to attached courses). • Published many research papers. • Participated at national and international Conferences. • Supervised students at MSc. Program. • Designed syllabi, teaching & assessment plans, and learning materials. • Coordinated supervision of final year students' research projects. • Participated in the preparation of the College of Arts and Sciences vision, mission and goals in accordance with the University requirements regarding teaching, research, and community service. • Followed up implementation of department board decisions. • Submitted recommendations regarding projects, consultancies, and staff contribution to community service. • Conducted academic advising. • Prepared department/section annual reports and submitted to the Dean; approved final exam grades. • Acted as Head of the Department of MPSD. • Recruited Professors, Assoc. Professors, Assist. Professors, and lecturers.

2003 - 2005: Full Professor & Head, Dept. of Computer Science. - Al-Mansour University College, Baghdad

• Supervised the running of the Department of Computers/ Information Systems and Computers and proposed ways of enhancing its performance. • Revised Degree Programs, of B.Sc. in Computers/ Information Systems and Computers. • Prepared recruitment plans, appointed members for Search Committee, established recruitment procedure, recruited new faculty for the department. • Conducted meetings, seminars and workshops for the college staff. • Taught many courses in the Departments of Computers and Information Systems and Computers and post graduate courses in other colleges (see attached Table). • Published many research papers. • Participated at national and international conferences. • Designed syllabi, teaching & assessment plans, and learning materials. • Coordinated supervision of final year students' research projects. • Followed up implementation of department board decisions. • Submitted recommendations regarding projects, consultancies, and staff contribution to community service. • Conducted academic advising. • Prepared department/section annual reports and submitted them to the Dean; approved final exam grades.

2001 - 2003: Head, Dept. of Information Technology & Computers (IT&C) - Al-Mansour University College, Baghdad

• Supervised the running of the Department of Computers/ Information Systems and Computers and proposed ways of enhancing its performance. • Revised Degree Programs, of B.Sc. in Computers/ Information Systems and Computers. • Prepared recruitment plans, appointed members for Search Committee, established recruitment procedure, recruited new faculty for the department. • Conducted meetings, seminars and workshops for the college staff. • Taught many courses in the Departments of Computers and Information Systems and Computers and post graduate courses in other colleges (see attached Table). • Published many research papers. • Participated at national and international conferences. • Designed syllabi, teaching & assessment plans, and learning materials. • Coordinated supervision of final year students' research projects. • Followed up implementation of department board decisions. • Submitted recommendations regarding projects, consultancies, and staff contribution to community service. • Conducted academic advising. • Prepared department/section annual reports and submitted them to the Dean; approved final exam grades.

1995 - 1998: Department of Mathematics - College of Ibn Al Haithm, University of Baghdad.

• Supervised the running of the Department of Mathematics and proposed ways of enhancing its performance. • Revised Degree Programs, of M.Sc. and B.Sc. in Mathematics. • Prepared recruitment plans, appointed members for the Research Committee, established recruitment procedure, recruited new faculty for the department. • Conducted meetings, seminars and workshops for the department staff. • Taught many courses at undergraduate and graduate levels in the Department of Mathematics and other departments (Please refer to attached courses). • Taught many courses at graduate levels in the other Colleges of Baghdad and Al-Mustansiriyah Universities (see attached Table). • Published many research papers. • Supervised students at MSc. Program. • Participated at national and international Conferences. • Designed syllabi, teaching & assessment plans, and learning materials. • Coordinated supervision of final year students' research projects. • Followed up implementation of department board decisions. • Submitted recommendations regarding projects, consultancies, and staff contribution to community service. • Conducted academic advising. • Prepared department/section annual reports and submitted to the Dean; approved final exam grades.

Award and Recognitions

2018 I was selected as one of the best employees throughout the Ministry of Higher

Education, Oman, 2018.

2017 I was selected into Marquis who's who in the World as one of the top 3% of the professionals, and will be listed in the international biography directory 2017, Volume, 34.

2016 I was awarded the ``Valued Reviewer Status`` from Journal of Reliability Engineering and System Safety, ELSEVIER. Jan. 20, 2016.

2015 I was awarded the ``Recognized Reviewer Status`` from Journal of Reliability Engineering and System Safety, ELSEVIER. Sep. 23, 2015.

2012 The best paper Award competition of the 2012 International Conference of Computational Statistics and Data Engineering, International Association for Engineers, June 2012, London, UK.

2002 Whilst I was the Head of Information System and Computers Department, Al-Mansour University College, Iraq, the department was selected with others for the Central Correspondence Departments Examinations throughout Iraq and was awarded the first, second, and third prizes (2001-2002), by the Ministry of Higher Education and Scientific Research in Iraq.

2002 The first prize (2001- 2002) of the central examinations of the students by the Ministry of Higher Education and Scientific Research in Iraq.

1987 First prize Award, 1986-1987, Chess Championship of Iraqi Students Association at India

I was awarded "the Best Academic Award for Academic and Educational Excellence" from His Excellency the Chancellor of the University of Nizwa, February 2023.
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Ref.: https://www.unizwa.edu.om/staff/cas/alhemyari