

CURRICULUM VITAE

Dr. Husam Bayoud, Associate Professor of Statistics



Personal Information

- Name: Husam Awni Bayoud.
- Place and date of birth: Kuwait, June 8,1979.
- Nationality: Jordanian.
- Religion: Islam.
- Sex: Male.
- Marital Status: Married with three kids.
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Education

- **2004-2007 University of Jordan/Jordan**

Ph.D. Degree in Mathematics specialized in *Mathematics specialized in Statistics*.

The title of the Ph.D thesis is

“Bioavailability Indices and their Role in Bioequivalence Study”

Supervisor: Prof. Adnan M. Awad

- **2001-2004 University of Jordan/Jordan**

M.Sc. Degree in Mathematics specialized in *Mathematics specialized in Statistics*.

The title of the M.Sc. thesis is

“Comparative Study of Methods of Solving the Bioequivalence Problem”

Supervisor: Prof. Adnan M. Awad

- **1997-2001 University of Jordan/Jordan**

B.Sc. Degree in *Mathematics*.

Academic Experience

May 2016-Present, Fahad Bin Sultan University–Tabuk

Associate Professor in Statistics – College of Sciences and Humanities

Sep. 2010- May 2016, Fahad Bin Sultan University–Tabuk

Assistant Professor in Statistics – College of Sciences and Humanities

Sep. 2007 – Aug. 2010, Petra University-Jordan

Assistant Professor in Mathematics – Basic Sciences Department

Sep. 2006 – Aug. 2007, Petra University-Jordan

Mathematics Instructor–Basic Sciences Department

Sep. 2004 – Aug. 2007 University of Jordan-Jordan

Part time Assistant Professor in Mathematics – Mathematics Department

Sep. 2004 – Aug. 2007 University of Jordan-Jordan

Part time Instructor in Mathematics – Mathematics Department

2001 – 2006 Ministry of Education – Jordan

Mathematics teacher

Administrative Experience

- Feb. 2015 - Now

Director of Foundation Year Program at Fahad bin Sultan University-Tabuk, Saudi Arabia

- Sep. 2014 - Feb. 2015

Assistant Dean of the College of Sciences and Humanities at Fahad bin Sultan University-Tabuk, Saudi Arabia

- Sep. 2012 - Aug. 2014

Director of the Arts and Sciences Unit at Fahad bin Sultan University – Tabuk, Saudi Arabia

Taught Courses

In the last years, I have taught various courses in Mathematics and Statistics for graduate and undergraduate students with major in: Mathematics, Physics, Chemistry, Earth Sciences, Biology, Pharmacy, Engineering, Computer science and engineering, Business and Medicine, including:

- 1- Principles of statistics (University of Jordan)
- 2- Statistical techniques (University of Jordan)
- 3- Probability theory (University of Jordan)
- 4- Calculus I, II, III (University of Jordan, Petra University and Fahad Bin Sultan University)

- 5- Mathematics for Business and Social Sciences (University of Jordan and Fahad Bin Sultan University)
- 6- Biostatistics for Undergraduates (University of Jordan)
- 7- Biostatistics for *Graduates* (University of Jordan)
- 8- Actuarial Mathematics (University of Jordan)
- 9- Statistical methods (Petra University)
- 10-Business Math for EMBA Students (Fahad Bin Sultan University)
- 11-Discrete Math (Petra University and Fahad bin Sultan University)
- 12-Linear Algebra (Petra University and Fahad bin Sultan University)
- 13-Differential Equations (Petra University and Fahad bin Sultan University)
- 14-Probability and Statistics (Fahad bin Sultan University)
- 15-Pre-Calculus (Fahad bin Sultan University)

Membership of Scientific Associations/Editorial Boards:

- 1) Member of the Editorial Advisory Board of Journal of Statistics ISSN 1684-8403.
- 2) Member of the Editorial Advisory Board of International Journal of Applied Research ISSN 2309-5504.
- 3) Reviewer - Journal of Statistical Computation and Simulation.
- 4) Reviewer - Journal of Applied Statistics.
- 5) Member – World Congress of Engineers IAENG.

University Committees and Councils:

- 1) Chair of the FYP Council at FBSU.
- 2) Member of the College of Sciences and Humanities Council at FBSU.
- 3) Member of the University Council at FBSU.
- 4) Member of University Council of Graduate Studies at FBSU.
- 5) Member of the University Academic Committee at FBSU.
- 6) Member of the University Research Board at FBSU.
- 7) Member of the Accreditation & Strategic Planning Committee at FBSU.
- 8) Chair of the FYP Council at FBSU.
- 9) Chair of an ad-hoc committee formed for preparing the "Self Study Report (SSR)" of "Learning Resources" at FBSU for the NCAAA accreditation purposes over three phases during the period of 2014-2016.

Courses Development:

I developed the following courses at FBSU:

- Business Mathematics for Executive MBA students at FBSU.
- Elementary Statistics for IT students at FBSU.

I worked with a team of mathematics professors in developing the following courses at FBSU:

- Numerical Computing for Electrical Engineering Students at FBSU.
- Bridging Mathematics for Bridging Students at FBSU.

Participation in Conferences:

- I presented a paper entitled " Bayesian Analysis of Type-I Censored Data from Two-Parameter Exponential Distribution" in the 2012 International Conference of Computational Statistics and Data Engineering/ World Congress on Engineering – London 2012.
- I chaired a session in the World Congress on Engineering-London July 5-7, 2012.
- I attended LINC 2007 conference, Jordan.

Attended Workshops

- **"Teaching Methodology"** delivered by the American University of Beirut, at FBSU in March 2013.
- **"Flipping Your Classroom To Increase Student Engagement & Learning"** delivered by the American University of Beirut, at FBSU in April 2015.
- **"Assessment of Learning Outcomes"** delivered by the National Commission for Academic Accreditation and Assessment (NCAAA) at FBSU in Oct. 2015.
- **"Developing the Learning Outcomes in Compliance with NQF and Aligning Assessment Practices with Learning Outcomes"** delivered by Dr. AlMadany who is a member of the National Commission for Academic Accreditation and Assessment (NCAAA) at FBSU in May 2016.

Research Interests

Bioequivalence and Bioavailability Studies

Bayesian Analysis

Reliability analysis (Life tests with censored samples)

Sequential Tests

Goodness of fit tests

Information theory and Entropy Measures

Papers Published/Accepted for publication:

1. **H.A. Bayoud.** Bayes and Empirical Bayes Estimation for the parameter n in Binomial Distribution, *Communications in Statistics-Computation and Simulation* (2011) 40 pp 1422–1433.
2. **H.A. Bayoud** and A. Awad. Performance of Several Bioequivalence Metrics for Assessing the Rate and Extent of Absorption, *J Bioequiv Availab* (2011) 3: pp 174-177, DOI:10.4172/jbb.1000080.
3. **H.A. Bayoud.** Admissible Minimax Estimators for the Shape Parameter of Topp-Leone Distribution, *Communications in Statistics-Theory and Methods*, (2015) DOI: 10.1080/03610926.2013.818700.
4. **H.A. Bayoud** and O. Kittaneh. Testing the Equality of Two Exponential Distributions, *Communications in Statistics- Computation and Simulation* (2014) DOI: 10.1080/03610918.2014.895837.
5. **H.A. Bayoud.** Bayesian Inference for Exponential Lifetime Models Based on Type-II Hybrid Censoring, *Journal of Statistical Theory and Applications* (2014) 13:2.
6. **H.A. Bayoud.** Bayesian Analysis of Type-I Censored Data from Two-Parameter Exponential Distribution, *Proceeding of the 2012 International Conference of Computational Statistics and Data Engineering/ World Congress on Engineering – London 2012.*
Also, this paper has been published in *Lecture Notes in Engineering and Computer Science* (2012) 2197:1 pp 291-296.

7. **H.A. Bayoud.** Estimating the Shape Parameter of Topp-Leone Distribution Based on Progressive Type-II Censored Samples, *REVSTAT (to appear)*.
8. O.A Kittaneh, M.AU Khan, M Akbar, **H.A Bayoud.** Average Entropy: A New Uncertainty Measure with Application to Image Segmentation, *American Statistician*, DOI: 10.1080/00031305.2015.1089788.
9. **H.A. Bayoud,** Testing the Similarity of Two Normal Populations with Application to the Bioequivalence Problem, *Journal of Applied Statistics*, DOI: 10.1080/02664763.2015.1100591.
10. **H.A. Bayoud,** Estimating the Shape Parameter of Topp-Leone Distribution Based on Type-I Censored Samples, *Applicationes Mathematicae* 42, 2-3 (2015), pp. 219-230.

Book Chapter:

1. H. Bayoud (2013), Bayesian Inference for the Parameters of Two-Parameter Exponential Lifetime Models Based on Type-I and Type-II Censoring, *Lecture Notes in Electrical Engineering*, Volume **229**, 2013, pp 67-79, doi: 10.1007/978-94-007-6190-2_6. Publisher: Springer Netherlands.

Awards

I earned a certificate of merit from the World Congress on Engineering, July 2012-London for the paper: Bayesian Analysis of Type-I Censored Data from Two-Parameter Exponential Distribution.

Course Management Systems

I'm familiar with the following systems:

- Blackboard
- Moodle

Computer Sills

I'm familiar with the following packages:

- Statistical Packages such as Mathematica and SPSS.
- Latex.
- Excellent knowledge of Microsoft office and Internet.