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### *Education*

Spring 2008    Ph.D.(Statistics): Colorado State University, Ft. Collins, Co 80523, USA.  
*Dissertation title:* Unbiased Ratio Estimation For Finite Populations.

Spring 2006    M.Sc.(Statistics): Colorado State University (CSU), Ft. Collins, Co 80523, USA.

**Note**            <http://graduateschool.colostate.edu/Programs/statistics/> :” *The Department of Statistics at CSU consistently ranks in the top 50 statistics departments in the US.*”

Summer 1991    M.Sc.(Statistics): Yarmouk University (YU), Irbid, Jordan.  
*title:* Testing Hypotheses about the Mean of a Bivariate Normal Distribution under some Restrictions.

Spring 1989    B.Sc.(Statistics and minor in Mathematics): Yarmouk University, Irbid, Jordan.

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### *Areas of Interest*

- Survey Sampling
  - Linear Models
  - Nonparametric Regression Models
  - Kernel Estimations
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### *Awards*

- RA or TA for different years from Colorado State University, Ft. Collins, Co 80523, USA.
  - Four years scholarship from Yarmouk University to study Ph.D. at Colorado State University, Ft. Collins, Co 80523, USA.
  - An outstanding student medal from Yarmouk University at the end of M.Sc. program.
  - Through the B.Sc., many different times I listed on the honor list as an outstanding student.
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## *Experience*

- Jan 28,2018- Sept 15, 2019: Head of the Dept of Statistics, YU, Jordan.
  - Sept 10,2017-Jan 27,2018: Assistant Dean and Assistant dean for quality assurance, YU, Jordan.
  - December 2013 - present, Associate Professor, Department of Statistics, Yarmouk University, Irbid, Jordan.
  - February 2008 - December 2013, Assistant Professor, Department of Statistics, Yarmouk University, Irbid, Jordan.
  - January 2003 - December 2007, either T.A. or R.A., Statistics Department, Colorado State University, Ft. Collins, Co 80523, USA.
  - September 2000 - August 2002, Instructor, Department of Statistics, Yarmouk University, Irbid, Jordan.
  - December 1997 - September 2000, Lecturer, King Faisal University, Al-Hofof, Kingdom of Saudi Arabia.
  - September 1992 - January 1998, Lecturer, Department of Statistics, Yarmouk University, Irbid, Jordan.
  - November 1991 - August 1992, Lecturer, Advanced center for preparing trainers. Zlitan, Lybia.
  - September 1989 - Spring 1991, TA, Department of Statistics, Yarmouk University, Irbid, Jordan.
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### *Other important Issues*

- Head of the committee for Development and Quality Assurance, College of Science, YU.
  - Head of the Committee for disciplinary of students for the academic year 2017/2018, YU.
  - A representative of the Statistics Dept in the college council for the academic year 2016/2017, YU.
  - Head of the Committee for the Investigation of Students' Issues for the academic year 2016/2017, YU.
  - A representative member of the Department of Statistics in the conferences and the science collage day committee, Science collage, Yarmouk University, for the academic year 2012/2013.
  - A representative member of the Department of Statistics in the Strategic Planning for Yarmouk University .
  - A representative of the Statistics Dept in the college council for the academic year 2012/2013, YU.
  - A representative of the Statistics Dept in the college council for the academic year 2008/2009, YU.
  - Member of the Committee for disciplinary of students for the academic year 2008/2009.
  - Referee for different International Journals.
  - Participating in consulting sessions, Colorado State University, Ft. Collins, Co 80523, USA.
  - Using SAS as a primary software in my research and applied courses.
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## *Publications*

**Book:** Al-Jararha, J. (2012). Unbiased Ratio Estimation For Finite Populations.

LAMBERT Academic Publishing, Germany. ISBN: 978-8473-2862-9.

1. Al-Jararha M. and Al-Jararha J. (2020). Inequalities of Gamma Function Appearing in Generalizing Probability Sampling Designs. **Australian Journal of Mathematical Analysis and Applications**. Vol. 17, No. 2, Art. 17, 9 pp. ISSN (electronic): 1449-5910
2. Al-Jararha and Suliaman (2020). Generalized Horvitz and Thompson Estimator. **Statistics in Transition New Series**. vol. 21, issue 1, 37-53. DOI: 10.21307/stattrans-2020-003
3. Al-Jararha J.(2018). New Approaches for Choosing the Ridge Parameters. **Hacettepe Journal of Mathematics and Statistics**. 47(6), 1625-1633.  
Doi: 10.15672/HJMS.2016.389
4. Al-Jararha J. and A. Aljadeed (2018). Unbiased Estimator of Finite Population Variance Based on a Ratio Type Estimator. **Electronic Journal of Applied Statistical Analysis**. 11(01): 196-207
5. Al-Jararha, J.(2015). A Dual Problem of Calibration of Design Weights Based on Multi-Auxiliary Variables. **Communications for Statistical Applications and Methods**. 22(2):137-146.
6. Al-Jararha, J., Bataineh, A. (2015). Estimation of Finite Population Ratio When Other Auxiliary Variables are Available in the Study. **Austrian Journal of Statistics**. 44(1): 33 - 46.
7. Al-Jararha, J.(2013). An Optimal Combination Between two Ratio Estimators. **Journal of Probability and Statistical Science**, 11(2), 141-151, Aug. 2013.
8. Al-Jararha, J. (2013). A class of Sampling two units with probability proportional to size. **Communications in Statistics - Simulation and Computation**, 42:8, 1906-1916.

9. Al-Haj Ebrahim, M. and Al-Jararha, J.(2011). Kernel Estimation of Percentiles obtained from Accelerated Degradation Model. **Journal of Probability and Statistical Science**. 10(1), 67-75.
  10. Al-Jararha, J. and Al-Haj Ebrahim, M. (2012). A Ratio Estimator Under General Sampling Design. **Austrian Journal of Statistics**. 41(2): 105 - 115.
  11. Al-Jararha, J., Al-Haj Ebrahim, M. and Al-Masri, A. (2011). Estimating the Parameters of Degradation Models when Error Terms are Autocorrelated. **Austrian Journal of Statistics**. 40(3): 191 - 200.
  12. Abu-Dayyeh, Walid, Al-Jararha, Jihad, and Madan Kailash (2003). LRT Conjecture for Bivariate Normal. **Applied Mathematics and Computation**, Vol. 145, No. 1, pp. 73-84 (Netherland).
  13. Al-Jararha, Jihad and Madan K.(2003). An M/G/1 Queue with Second Optional Service With General Service Time Distribution. **International Journal of Information and Management Sciences**, Vol. 14, No. 2, pp. 47-56 (TAIWAN).
  14. Al-Jararha, Jihad and Ahmed M. S.(2002). The Class of Chain Estimators for a Finite Population Variance using Double Sampling. **International Journal of Information and Management Sciences**, Vol. 13, No. 2, pp. 13-18 (TAIWAN).
  15. Al-Jararha, Jihad and Madan K.(2002). Steady State Analysis of an M/D/1 Queue with coxian-2 server Vacations and a Single Vacation Policy. **International Journal of Information and Management Sciences**, Vol. 13, No. 4, pp. 69-81 (TAIWAN).
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### *Submitted Papers*

1. Generalization of Probability Sampling Design.
  2. Testing Hypotheses based on Ridge Regression when Hoerl and Kennard approach is used.
  3. The coefficient of determination and adjusted coefficient of determination in ridge regression.
  4. Shrinkage and the biasing parameters estimation for multiple linear regression model.
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## *Supervision*

M.Sc. thesis in Statistics

1. Ala' Bataineh (2012). Estimation of Finite Population Ratio By Two Auxiliary Variables.
  2. Ahmad Elyassen(2014). Penalized Chi-square distance and the dual calibration for estimating the population total.
  3. Mohammad Al-deges (2015). A Calibration Approach for Estimating Variance in Survey Sampling.
  4. Mazen Suliman (2015). Penalized Chi-square distance and the dual calibration of design weights.
  5. Abdullah Aljadeed (2015). A New Ratio Approach for Estimating the Population Variance Using Auxiliary Information.
  6. Mohammad Yahya AL-Jamal(2016). A New Ratio Family for Estimating the Finite Population Variance.
  7. Ahmad Al-Jarrah (2020). Penalized Calibration Estimator of a Finite Population Total Under General Sampling Designs.
  8. Ezadine Al-Wajeih (2021). Shrinkage and the biasing parameters estimation for multiple linear regression model.
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### Conferences

- Jordan’s Conference of Statistics and it’s applications; 2nd and 3rd of December, 2015; Yarmouk University, Jordan.
  - Graybill’s Conferences, 2004, 2005, 2006, and 2007, Colorado State University, Ft. Collins, Co 80523, USA.
  - Education of Statistics in Jordan, Yarmouk University, 25-26th of Nov., 1992.
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### Workshops

1. Taylor and Francis Research Seminar, Feb 27, 2016, Yarmouk University, Jordan
  2. Statistics and it’s Applications: Generalized Hartley and Ross Estimator. Sunday, 23rd of November 2008. Yarmouk University, Irbid, Jordan.
  3. Academic Staff Workshops. 2008: Course Syllabus, Teaching methods and illustration tools, Managing class room, Meeting the academic Calendar and University exams dates, Student evaluation - course and lecturer. Faculty Development Center: Yarmouk University.
  4. Mathematics of Computing. 3rd - 24th of January 1996, held by UNESCO. Yarmouk University, Irbid, Jordan.
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## Teaching

- Yarmouk University
  1. St101: Introduction to Statistics (1)
  2. St107: Statistics for Business and Economics Students
  3. St111: Introduction to Probability (1)
  4. St201: Introduction to Statistics (2)
  5. St203: Biostatistics.
  6. St211: Introduction to probability (2)
  7. St234: Statistical Inference(1)
  8. St271: Sampling Techniques.
  9. St272: Introduction to Time Series Analysis.
  10. St281: Statistical Packages: mainly I am teaching the main procedures in SAS.
  11. St312: Probability Theory.
  12. St374: Design of Experiments and Analysis of Variance (1).
  13. St375: Regression Analysis.
  14. St464: Multivariate Analysis.
  15. St674: Design of Experiments and Analysis of Variance (for Graduate Students).
  16. St678: Survey Sampling (for Graduate Students).
  17. St683: Linear Models (for Graduate Students).
- Through my Ph.D. program at Statistics Department, Distance Learning Program, Colorado State University, Ft. Collins, Co 80523, USA. I was coordinating the following courses:
  1. Stcc309: Statistics for Engineering and Statistics.
  2. St511: Design and Data Analysis for Researchers. Software: SAS.
  3. St521: Stochastic Processes. Software: Scientific Work Place.

4. St523: Quantitative Spatial Analysis. Software: S-Plus.
  5. St525: Analysis of Time Series I. Software: ITSEM.
  6. St526: Analysis of Time Series II. Software: ITSEM.
  7. St605: Theory of Sampling. Software: SAS.
- Other places I had been teaching: Calculus, Linear Algebra, Differential Equations, Introduction to Probability and Statistics courses.
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### *References*

- Prof. F. Jay Breidt (My advisor), email: jbreidt@stat.colostate.edu. Address: Dept of Statistics, Colorado State University, Fort Collins, CO 80523-1877, USA.
- Jana Anderson, Associate Professor and Director for MAS/ Online Learning Programs, email: anderson@stat.colostate.edu. Address: Dept of Statistics, Colorado State University, Fort Collins, CO 80523-1877, USA.
- Prof. Mohammad Fraiwan Al-Saleh, email: m-saleh@yu.edu.jo, Dept of Statistics, Yarmouk University, Irbid, Jordan.