

Curriculum Vitae/Resume

Contact Information:

Name : Hazem Al-Mofleh.
Current Address : Department of Mathematics
Tafila Technical University
Al Tafila 66110, Jordan
Cell Phone : +962791903516
Email : almof1hm@cmich.edu
almof1hm@ttu.edu.jo
almof1hm@gmail.com



Personal Information:

Place and Date of Birth : Irbid, JORDAN. May 22nd, 1982
Marital Status : Married
Citizenship : Jordanian
Gender : Male
ORCID ID : <https://orcid.org/0000-0003-3430-2464>
QR Code for ORCID ID :



Researcher ID : [K-3334-2017](https://orcid.org/0000-0003-3430-2464)
Scopus Author ID : [57200439847](https://orcid.org/0000-0003-3430-2464)
Publons ID : [2089427](https://orcid.org/0000-0003-3430-2464)
Google Scholar : https://scholar.google.com/citations?user=H_Uq10JVCGQC&hl=en
LinkedIn : <https://www.linkedin.com/in/dr-hazem-al-mofleh-68a74730/>
Google Site : <https://sites.google.com/site/drhazemsite2016/>
ResearchGate : https://www.researchgate.net/profile/Hazem_Al-Mofleh

Education:

Doctor of Philosophy (Ph.D.), Central Michigan University (USA) (Aug 2009 to July 2014).

General Major : Mathematics, Concentration in Teaching College Mathematics.

Specialization : Statistics (In Spatial Statistics and Geostatistics).

Ph.D. Dissertation : *Robust Variogram Fitting Using Non-Linear Rank-Based Estimators.*

Advisors : John Daniels Joseph McKean.
Department of Mathematics Department of Statistics
Central Michigan University Western Michigan University
Mount Pleasant, MI 48858 Kalamazoo, MI 49008



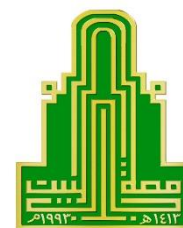
Graduate Data Mining Certificate (D.M.), Central Michigan University (USA) (Aug 2011 to Aug 2012).

Master of Science (M.S.), Al al-Bayt University (JORDAN) (Sep 2004 to Sep 2006).

General Major : Mathematics.

Specialization : Mathematical Statistics (Sampling).

Master Thesis : *Using Taylor Expansion in Finding the Optimum Stratum Boundaries Depending on Proportional Allocation.*



Bachelor of Science (B.S.), Al al-Bayt University (JORDAN) (Oct 2000 to Feb 2004).

Major : Mathematics.

Employment History:

- **Assistant Director of the** “Office of Human Resources Development and E-learning” (March 2020 to Present).

- **Assistant Professor**, Tafila Technical University (Al-Tafila, JORDAN) (March 2017 to Present),
The duties: Teaching mathematics and statistics courses. I designed the syllabi, homework, extra credit problems, quizzes, projects, and exams, held office hours and review sessions, performed all grading, and assigned final grades for these classes.



- The teaching: I taught: Mathematical concepts, Pre-Calculus, Calculus I, Calculus II, Calculus III, Advanced Calculus, Principles of Statistics I, Principles of Statistics II, Principles of Practical Statistics (SPSS Statistical Package), Introduction to Probability, Mathematical Statistics, Euclidian and Non-Euclidian Geometry, Partial Differential Equations II, Number Theory, Mathematics for Chemistry, Experimental Design and Analysis of Variance, Complex Analysis I, Mathematical Packages (MATLAB), Computer Packages in Statistics (R), Engineering Mathematics II.

- **Assistant Dean of Science Faculty**, Tafila Technical University (Al-Tafila, JORDAN) (Sep 2017 to Sep 2019).

The duties:

- ❖ Serve as a member of the Dean’s leadership team, working in collaboration with chairs, faculty, administrators, and others to advance the strategic vision for the College and the University.
 - ❖ Provide oversight for College budget and participate in budgeting process.
 - ❖ Provide oversight for College exams: dates and locations.
 - ❖ Serve as the College’s liaison to the Registrar on issues related to student enrollment, grading and graduation.
 - ❖ Serve as liaison to other university offices, such as the Dean of Students Affairs.
 - ❖ Provide supervision and support for College staff involved in data collection and analysis and serve as a liaison to the Office of Institutional Research and Planning.
 - ❖ Collect, analyze, and interpret information for all data-based reports, including reports related to strategic planning assessment, program review, accreditation, and certification.
 - ❖ Provide leadership and oversight of assessment for the College and serve as liaison to university-wide assessment efforts.
 - ❖ Coordinate course evaluation processes and analysis.
 - ❖ Participate in student recruitment, retention and recognition activities and events.
- **Assistant Professor**, Tafila Technical University (Al-Tafila, JORDAN) (March 2017 to Present),
The duties: Teaching mathematics and statistics courses. I designed the syllabi, homework, extra credit problems, quizzes, projects, and exams, held office hours and review sessions, performed all grading, and assigned final grades for these classes.
The teaching: I taught: Pre-Calculus, Calculus I, Calculus II, Calculus III, Advanced Calculus, Principles of Statistics I, Principles of Statistics II, Principles of Practical Statistics (SPSS Statistical Package), Introduction to Probability, Mathematical Statistics, Euclidian and Non-Euclidian Geometry, Partial Differential Equations II, Number Theory, Mathematics for Chemistry, Experimental Design and Analysis of Variance, Complex Analysis I, Mathematical Packages (MATLAB), Computer Packages in Statistics (R).

- **Full-Time Lecturer**, Tafila Technical University (Al-Tafila, JORDAN) (**July 2014 to March 2017**), I taught:
The duties: Teaching mathematics and statistics courses. I designed the syllabi, homework, extra credit problems, quizzes, projects, and exams, held office hours and review sessions, performed all grading, and assigned final grades for these classes.
The teaching: I taught: Calculus II, Principles of Statistics I, Principles of Statistics II, Principles of Practical Statistics (SPSS Statistical Package), Introduction to Probability, Mathematical Statistics, Euclidian and Non-Euclidian Geometry, Partial Differential Equations II, Number Theory, Mathematics for Chemistry, Experimental Design and Analysis of Variance, Complex Analysis I, Mathematical Packages (MATLAB), Computer Packages in Statistics (R).
- **Scholarly Visiting**, Central Michigan University (Mt. Pleasant, USA) (**May 2015 to July 2015**).
The duties: I worked with Dr. McKean and Dr. Daniels to do the paper “Robust Variogram Fitting Using the Wilcoxon Norm”.
- **Graduate Teaching Assistant**, Central Michigan University (Mt. Pleasant, USA) (**Aug 2010 to Aug 2012 and Aug 2013 to July 2014**).
The duties: Teaching mathematics and statistics courses. I designed the syllabi, homework, extra credit problems, quizzes, projects, and exams, held office hours and review sessions, performed all grading, and assigned final grades for these classes. Moreover, one of my duties is tutoring and helping undergraduate students in mathematical and statistical courses at the Mathematics Assistance Center (MAC).
The teaching: I was solely responsible for teaching four courses: Intermediate Algebra (Fall 2010 and Spring 2011), Plane Trigonometry (Fall 2011), Introduction to Statistics (Spring 2012 and Fall 2013), and Modern Geometry (Spring 2014).
 In Fall 2013, I taught Introduction to Statistics (with applications on Minitab) to freshmen and sophomores as my first internship. Sequentially, on the next semester (Spring 2014) I taught Modern Geometry to junior and senior mathematics students as my second internship.
- **Graduate Teaching Assistant**, Western Michigan University (Kalamazoo, USA) (**Aug 2012 to Dec 2012**).
The duties: I served as a Teaching Assistant where I assisted with *Finite Mathematics and Applications* as a recitation instructor.
- **Full-Time Lecturer**, Tafila Technical University (Al-Tafila, JORDAN) (**Sep 2008 to Aug 2009**).
The duties: Teaching mathematics and statistics courses. I designed the syllabi, homework, extra credit problems, quizzes, projects, and exams, held office hours and review sessions, performed all grading, and assigned final grades for these classes.
The teaching: I taught: Calculus II, Principles of Statistics I, Principles of Practical Statistics (SPSS Statistical Package), Mathematics for Chemistry, Introduction to Probability, and Mathematical Statistics.
- **Teaching Mathematical and Statistical University Courses**, Sarah International Center for Education (Irbid, JORDAN) (**Jan 2006 to April 2007**).
- **Mathematics Teacher**, Ministry of Education on Second Irbid for Education (Irbid, JORDAN) (**Aug 2006 to Mar 2007**).
- **Mathematics Teacher**, Ministry of Education on Directorate of northern Eastern Badia for Education at (Al-Mafraq, JORDAN) (**Aug 2004 to Feb 2006**).

Professional Qualifications:

- *Expert in the following Statistical and Mathematical programs:*

- 1) SPSS. 
- 2) Minitab. 
- 3) Mathematica. 
- 4) Matlab. 
- 5) Maple. 
- 6) R. 
- 7) SAS. 
- 8) SAS Enterprise Miner. 
- 9) ArcGIS (ArcMap). 

- *Expert in the following programming Languages:*

- 1) C and C ++. 
- 2) Visual Basic. 

Awards and Honors:

- *Graduate Teaching Assistant Scholarship, Central Michigan University (Mt. Pleasant, USA) (08/18/2013 to 06/28/2014).*
- *Graduate Teaching Assistant Scholarship, Western Michigan University (Kalamazoo, USA) (08/22/2012 to 12/31/2012).*
- *Graduate Teaching Assistant Scholarship, Central Michigan University (Mt. Pleasant, USA) (08/23/2010 to 08/22/2012).*
- *Government Full Scholarship, Tafila Technical University (Al-Tafila, Jordan) (08/10/2009 to 08/25/2013).*

Professional Memberships:

- Statistics Club at Central Michigan University, October 2010-Present.
- American Mathematical Society (AMS).
- The Astrostatistics and Astroinformatics Portal (ASAIP).
- International Astrostatistics Association (IAA).
- The Cosmostatistics Initiative: COIN.

Committees:

- The Scientific and Technical Committee & Editorial Review Board on Mathematical and Computational Sciences (World Academy of Science, Engineering and Technology).
- Reviewer on "Pakistan Journal of Statistics and Operation Research". I reviewed **six** papers.
- Reviewer on "Journal of Modern Applied Statistical Methods". I reviewed **one** paper.
- Reviewer on "Pakistan Journal of Statistics", I reviewed **four** papers.
- Reviewer on "Open Journal of Statistics (OJS)", I reviewed **one** paper.
- Reviewer on "Anais da Academia Brasileira de Ciencias", I reviewed **one** paper.
- Reviewer on "Electronic Journal of Applied Statistical Analysis", I reviewed **one** paper.
- Reviewer on "Complexity", I reviewed **one** paper.
- Reviewer on "IEEE Access", I reviewed **one** paper.
- Reviewer on "Journal of Scientific Research and Reports", I reviewed **one** paper.
- Reviewer on "Annals of Data Science", I reviewed **one** paper.

Research Interests:

- Probability Distributions Theory and Applications.
- Spatial Statistics.
- Geostatistics.
- Robust Nonparametric Methods.
- The Discriminating between Probability Distributions.
- Circular Data Analysis.
- Time Series and Intervention Analysis.
- Sampling Techniques: Optimum Stratum Boundaries.
- Astrostatistics.
- Cosmostatistics.

Advisor Activities:

- (2020) M.Sc. Advisor for **Seham Shawky**, “The odd Lomax Inverted Kumaraswamy distribution: Properties, estimation and applications”, she is a M.Sc. student in Mathematical Science in Islamic University of Minnesota, MN, USA.
- (2019) M.Sc. Co-Advisor for **Esra'a Al-haj**, “Effect of automated speed enforcement program on traffic crashes”, she is a M.Sc. student in Civil Engineering in Jordan University of Science and Technology, Jordan.
- (2019) Ph.D. Advisor for **Yaseer Mohamed**, “Some New Generated Families of Distributions with Applications”, he is a PhD student in Mathematical Science in Islamic University of Minnesota, MN, USA.
- (2018) External Co-Advisor and Examiner for the M.Sc. student in Civil Engineering **Audai Eid Al-Zedaneen** in Jordan University of Science and Technology, with thesis title (Effect of Fasting Period “Ramadan” on Traffic Accidents in Jordan).

Significant Presentations Given:

- **Al-Mofleh, H.** (2019). The wrapped Lindley-Exponential distribution and Applications. Oral presented at the International Conference on Statistical Distributions and Applications “ICOSDA 2019”, this conference held in October 10-12, 2019 at Eberhard Conference Center, Grand Rapids, USA. I accepted to be a general-invited speaker in this conference.
- **Al-Mofleh, H., Daniels, J., & McKean, J.** (2016). 'Robust Variogram Fitting Using Non-Linear Rank-Based Estimators'. Oral presented at the ICCSS 2016: 18th International Conference on Computational and Statistical Sciences, this conference held in Istanbul, Turkey.

Conferences Preparation:

- Technical program committee (TPC) member and Theoretical Foundations of Statistics (TFS) Committee for the 1st International Conference on Statistics and Applied Statistics (MIC-Statistics 2020), this conference will be held in July 17-19, 2020 in Amman/Jordan.

Scholarly and Creative Activity:

- Publications:

- **Al-Mofleh, H.**, Afify, A. & Ibrahim, N. A. (2020). A New Extended Two-Parameter Distribution: Properties, Estimation Methods, and Applications in Medicine and Geology. *Mathematics*, 8 (9), 1578, DOI: <https://doi.org/10.3390/math8091578>.
- **Al-Mofleh, H.**, Elgarhy, E., Afify, A. & Zannon, M. (2020). Type II Exponentiated Half Logistic Generated Family of Distributions with Applications. *Electronic Journal of Applied Statistical Analysis*, 13 (2), 536-561, DOI: <https://doi.org/10.1285/i20705948v13n2p536>.
- Al-Masaeid, H., Bazlamit, S., Al-Zedaneen, A. & **Al-Mofleh, H.** (2020). Impact of fasting on traffic accidents. *Jordan Journal of Civil Engineering*, 14 (3), 431-442.
- Sen, S., Ghosh, S. K., & **Al-Mofleh, H.** (2020). The Mirra distribution for modeling time-to-event data sets. International Conference on Strategic Management, Decision Theory and Data Science (SMDTDS-2020) held in January 4-6, 2020 at Kolkata, India.
- Sen, S., **Al-Mofleh, H.** & Maiti, S. (2020). On discrimination between the Lindley and xgamma distribution. *Annals of Data Science*, DOI: <https://doi.org/10.1007/s40745-020-00243-7>.
- **Al-Mofleh, H.** & Afify, A. (2019). A new generalized family of distributions: properties and applications. *Journal of Statistical Theory and Applications*, In press.
- Afify, A., **Al-Mofleh, H.** & Dey, S. (2019). Topp-Leone odd log-logistic exponential distribution: Its improved estimators and applications. *Anais da Academia Brasileira de Ciencias*, In press.
- Sen, S., Afify, A., **Al-Mofleh, H.** & Ahsanullah, M. (2019). The quasi xgamma-geometric distribution with application in medicine. *FILOMAT*, 33 (16), 5293–5332, DOI: <https://doi.org/10.2298/FIL1916291S>.
- Afify, A., Cordeiro, G. M., Mead, M. E., Alizadeh, M., **Al-Mofleh, H.** & Nofal, Z. M. (2019). The Generalized Odd Lindley-G Family: Properties and Applications. *Anais da Academia Brasileira de Ciencias*, 91 (3), 1-22, DOI: <https://doi.org/10.1590/0001-3765201920180040>.
- Mead, M. E., Cordeiro, G. M., Afify, A., & **Al-Mofleh, H.** (2019). The Alpha Power Transformation Family: Properties and Applications. *Pakistan Journal of Statistics and Operation Research*, 15 (3), 525-545, DOI: <https://doi.org/10.18187/pjsor.v15i3.2969>.
- **Al-Mofleh, H.** (2018). On Generating a New Family of Distributions Using the Tangent Function. *Pakistan Journal of Statistics and Operation Research*, 14 (3), 471-499, DOI: <https://doi.org/10.18187/pjsor.v14i3.1472>.
- Aljouiee, A., Elbatal, I. & **Al-Mofleh, H.** (2018). A New Five-Parameter Lifetime Model: Theory and Applications. *Pakistan Journal of Statistics and Operation Research*, 14 (2), 415-432, DOI: <https://doi.org/10.18187/pjsor.v14i2.1851>.
- Abouelmagd, T., Al-mualim, S., Afify, A., Ahmad, M. & **Al-Mofleh, H.** (2018). The Odd Lindley Burr XII Distribution with Applications. *Pakistan Journal of Statistics*, 34 (1), 15-32.
- Abouelmagd, T., Hamed, M., Afify, A., **Al-Mofleh, H.** & Iqbal, Z. (2018). The Burr X Fréchet Distribution with its Properties and Applications. *Journal of Applied Probability and Statistics*, 13 (1), 23-51.

- **Al-Mofleh, H.**, Daniels, J., & McKean, J. (2016). Robust Variogram Fitting Using the Wilcoxon Norm. World Academy of Science, Engineering and Technology, International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering, 10 (9), 418 - 424.
- **Al-Mofleh, H.**, Daniels, J., & McKean, J. (2016). Robust Variogram Fitting Using Non-Linear Rank-Based Estimators. World Academy of Science, Engineering and Technology, International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering, 10 (2), 68 - 77.

- **Publications Submitted for Peer Review:**

- Abdulwahab, A. M.; Khaleel, M. A., Pelumi, O. E. and **Al-Mofleh, H.** (2020). The Right Truncated Xgamma-G Family of Distributions: Statistical Properties and Applications. (Submitted for peer review).
- Al-Babtain, A. A., Elbatal, I., **Al-Mofleh, H.**, Gemeay, A. M. and Afify, A. (2020). The Transmuted Burr X-G Family: Properties, Inference, and Modeling Engineering Data. (Submitted for peer review).
- Abdel-Fatah, N. A., Marzouk, W., Ahmed, AH., Afify, A. Z. and **Al-Mofleh, H.** (2020). The Extended Failure Rate Family: Properties and Applications in the Engineering and Insurance Fields. (Submitted for peer review).
- **Al-Mofleh, H.**, Sen, S. & Zannon, Mohammad. (2020). The wrapped xgamma distribution for modeling circular data appearing in geological context. (Submitted for peer review).
- Haq, Ahsan ul., Afify, A., **Al-Mofleh, H.** & Usman, R. M. (2020). The Marshall-Olkin Modified Burr III Distribution: Properties and Applications. (Submitted for peer review).
- **Al-Mofleh, H.** (2020). The Normal - Generalized Hyperbolic Secant distribution: Properties and Applications. (Submitted for peer review).

- **Publications in preparation:**

- Afify, A., & **Al-Mofleh, H.** (2020). Estimation Methods on Constant Stress Accelerated Life Tests Under the Lomax Distribution.
- Sen, S. & **Al-Mofleh, H.** & Maiti, S. (2020). Bivariate xgamma distribution with application in system reliability.
- **Al-Mofleh, H.**, Daniels, J. & McKean, J. (2020). Robust Variogram Fitting Based on the Weighted Wilcoxon Norm.
- **Al-Mofleh, H.** (2020). The Gumbel-Generalized Hyperbolic Secant distribution: Properties and Applications.
- **Al-Mofleh, H.** (2019). The Generalized Error-Generalized Hyperbolic Secant distribution: Properties and Applications'.
- **Al-Mofleh, H.** (2019). The Wrapped Lindley Exponential Distribution for Modeling Circular Data.
- Elbatal, I. & **Al-Mofleh, H.** (2019). Extended Marshal-Olkin Modified Weibull Distribution: Properties and Applications.

- **Al-Mofleh, H.**, Haq, Ahsan ul. & Elgarhy, M. (2019). Power Nadarajah and Haghghi Distribution: properties, Estimation and Applications.
- Al-Nasser, A., **Al-Mofleh, H.** & Haq, Ahsan ul. (2019). Exponentiated Folded Normal distribution.

Dec 04, 2020