Waleed K. Almutiry

📱 +(966) 562244433
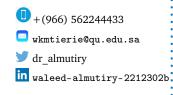
✉ wkmtierie@qu.edu.sa

🐦 dr_almutiry

in waleed-almutiry-2212302b

Address

Department of Mathematics

College of Science and Arts,

Qassim University

Ar Rass, Qassim

Saudi Arabia

Waleed Almutiry, PhD

A Statistical Scientist

Education

2014 - 2018, Guelph University, Canada
PhD in applied Statistics

2008 - 2009, Lancaster University, England
M.Sc. in Statistics

1998 - 2002, Qassim University, Saudi Arabia
B.Sc. in Mathematics

Certifications

- Machine Learning with Python, IBM, 2019.

Work Experience

Sep 2018 - present, *Assistant professor*, Mathematics department, College of Science and Arts in Ar Rass, Qassim Unversity
- Director of the Data Science Postgraduate Diploma (proposed) program.
- A committee member of the Optimal Control Strategy Master program.
- Director of the scientific committee in the department.
- Director of the quality committee in the department.
- Teaching different Mathematics and Statistics courses.

Jan 2011 - Aug 2012, *Director of preparatory year program*, Applied Health Science College, Qassim University, Saudi Arabia

Oct 2009 - Aug 2012, *A lecturer of statistics*, Applied Health Science College, Qassim University, Saudi Arabia

Jan 2004 - Dec 2006, *Director of information and statistics centre*, Applied Health Science College, Qassim University, Saudi Arabia

Dec 2003 - Dec 2006, *An assistant lecturer of Mathematics and statistics*, Applied Health Science College, Qassim University, Saudi Arabia

Sep 2002 - Dec 2003, *A teacher of Mathematics*, Technical College, Al-Kharj, Saudi Arabia

Skills

Technical Skills:
- Understanding of data analysis to effectively analyze and interpret findings in a way that makes sense to end users.
- Skilled in Data-driven decision-making.
- Reviewing and extracting critical components of data in an intellectual and vigilant way.
- Excellent in performing and developing models for fitting such big data as well as reporting findings for various prediction scenarios.
- Able to effectively review and evaluate statistical work with added valuable feedback for work improvement.

Interpersonal Skills:
- Good interpersonal and communication skills, team oriented.
- Able to work in diverse situations, groups, and surroundings.
- Excellent time-management skills.
- Ability to multitask in a fast paced environment, self-motivated, and adaptable.
- Approaching difficulties with a can-do attitude.
- Problem solving.
- Punctuality, responsibility, and reliability in work performance.

Software Skills:

○ **Statistical Programming:**

○ Expert in:
- ○ **R**
- Author and maintainer of: **EpiILM** and **EpiILMCT** packages.

○ Professional in:
- ○ Fortran
- ○ SPSS
- ○ OpenMP, MPI

○ Intermediate in:
- ○ Python
- ○ C & C++

○ **Others:**
- ○ LaTeX
- ○ Microsoft Power BI
- ○ GitHub
- ○ Tableau

Languages

○ Arabic: mother tongue　　　　　　○ English: fluency

Awards

Research Papers

Sumbitted & Published
- **Almutiry, W.** and Deardon, R. (2019). Incorporating contact network uncertainty in individual level models of infectious disease using approximate Bayesian computation. *The International Journal of Biostatistics*, 16(1), 20170092. DOI: `https://doi.org/10.1515/ijb-2017-0092`, ISI: Rank(**Q3**).
- Otmani, S., Boulaaras, S., and **Almutiry, W.** (2020). The maximum norm analysis of a nonmatching grids method for a class of parabolic biharmonic equation with mixed boundary condition. *Journal of Intelligent & Fuzzy Systems*, 38(3), 2551-2560, DOI: `10.3233/JIFS-179542`, ISI: Rank(**Q3**).
- Warriyar, K. V., **Almutiry, W.**, and Deardon, R (2020). Individual-Level Modelling of Infectious Disease Data: EpiILM. *R Journal*, 12(1), 87-104, DOI: `https://doi.org/10.32614/RJ-2020-020`, ISI: Rank(**Q1**).

- **Almutiry, W.**, Warriyar, K. V., and Deardon, R (2021). Continuous Time Individual-Level Models of Infectious Disease: a Package EpiILMCT. *Journal of Statistical Software*, 98(10). DOI: `https://www.jstatsoft.org/v098/i10`, ISI: Rank(**Q1**).
- **Almutiry, W.** and Deardon, R. (2021). Contact network uncertainty in individual level models of infectious disease transmission. *Statistical Communication in Infectious Diseases*, 13(1). DOI: `https://doi.org/10.1515/scid-2019-0012`.
- Alshammari, S., **Almutiry, W.**, Gwalani, H., Algarni, S., Saeedi, K. (2021). Measuring the Impact of Suspending Umrah, a Global Mass Gathering in Saudi Arabia on the COVID-19 Pandemic. *Journal of Computational and Mathematical Organization Theory*, 1-26, DOI:`https://doi.org/10.1007/s10588-021-09343-y`, ISI: Rank(**Q3**).
- Ahmadini, A. A., Javed, A., Akhtar, S., Chesneau, C., Jamal, F., Alshqaq, S. S., Elgarhy, M., Al-Marzouki, S., Tahir, M. H., **Almutiry, W.** (2021). Robust Assessing the Lifetime Performance of Products with Inverse Gaussian Distribution in Bayesian and Classical Setup, *Mathematical Problems in Engineering*, vol. 2021, Article ID 4582958, 9 pages. DOI: `https://doi.org/10.1155/2021/4582958`, ISI: Rank(**Q3**).
- Shrahili, M., Elbatal, I., **Almutiry, W.**, Elgarhy, M. (2021). Estimation of Sine Inverse Exponential Model under Censored Schemes, *Journal of Mathematics*, vol. 2021, Article ID 7330385, 9 pages. DOI: `https://doi.org/10.1155/2021/7330385`, ISI: Rank(**Q2**).
- **Almutiry, W.** (2021). Inverted Length-Biased Exponential Model: Statistical Inference and Modelling, *Journal of Mathematics*, vol. 2021, Article ID 1980480, 8 pages. DOI: `https://doi.org/10.1155/2021/1980480`, ISI: Rank(**Q2**).
- Khana, S., Balogunb, O.S., Tahira, M. H., **Almutiry, W.** and Alahmadi, A. A. (2021). An alternate generalized OGE family with applications to premium data, *Symmetry*, 13, 2064. DOI: `https://doi.org/10.3390/sym13112064`, ISI: Rank(**Q1**).
- Al-Moisheer, A. S., Elbatal, I., **Almutiry, W.**, Elgarhy, M. (2021). Odd Inverse Power Generalized Weibull Generated Family of Distributions: Properties and Applications, *Mathematical Problems in Engineering*, vol. 2021, Article ID 5082192, 17 pages. DOI: `https://doi.org/10.1155/2021/5082192`, ISI: Rank(**Q4**).
- **Almutiry, W.**, Alahmadi, A. A., Elbatal, I., Ragab, I. E., Balogun, O.S., Elgarhy, M. (2021). Application to Engineering and Medical Data Using Three-Parameter Exponential Model, *Mobile Information Systems*, vol. 2021, Article ID 9550156, 14 pages. DOI: `https://doi.org/10.1155/2021/9550156`, ISI: Rank(**Q4**).
- Bantan, R. A., Chesneau C., Jamal F., Elgarhy, M., **Almutiry, W.**, and Alahmadi, A. A. (2021). Study of a Modified Kumaraswamy Distribution. *Mathematics*, 9(21). DOI: `https://doi.org/10.3390/math9212836`, ISI: Rank(**Q1**).
- Abouagwa, M., Bantan, R.A.R., **Almutiry, W.**, Khalaf, A.D., Elgarhy, M. (2021). Mixed Caputo Fractional Neutral Stochastic Differential Equations with Impulses and Variable Delay. *Fractal and Fractional*, 5, 239. DOI: `https://doi.org/10.3390/fractalfract5040239`, ISI: Rank(**Q1**).

- Hamdaoui, A., **Almutiry, W.**, Benkhaled, A., Terbeche, M. (2021). A study of minimax shrinkage estimators and estimators dominating the James-Stein estimator under the balanced loss function, **Submitted to:** *Open Mathematics*, ISI: Rank(**Q3**), **Accepted**.
- Hamdaoui, A., **Almutiry, W.**, Benkhaled, A., Terbeche, M. (2021). Comparison of Risk Ratios of Shrinkage Estimators in High Dimension. **Submitted to:** *Mathematics*. ISI: Rank(**Q1**), **Accepted**.

Published Packages in R programming

- **Almutiry, W.**, Warriyar, K. V., Deardon R (2020). EpiILMCT*: Continuous Time Distance- Based and Network-Based Individual Level Models for Epidemics*. R package version 1.1.6, URL `https://CRAN.R-project.org/package=EpiILMCT`.
- Warriyar, K. V., **Almutiry, W.**, and Deardon, R (2020). *Individual-Level Modelling of Infectious Disease Data:* EpiILM. R package version 1.5.1, URL `https://CRAN.R-project.org/package=EpiILM`.

Collaborative Research

- Collaborating with Dr. Rob Deardon and Md Mahsin (a PhD candidate in Dr. Rob Deardon research group), Calgary University, Canada. We are working on developing continuous time geographically-dependent individual-level models for studying the spread of infectious disease.
- Collaborating with Dr. Sultanah Alshammari (King Abdulaziz University, Jeddah, Saudi Arabia), Dr. Harsha Gwalani (University of North Texas,Texas, US), and Dr. Saeed Alqarni (Saudi Center for Disease Prevention and Control, Jeddah, Saudi Arabia) for evaluation of Global Mass Gatherings Suspension in Saudi Arabia during the COVID-19 Pandemic.
- Collaborating with Dr. Najla Alnabhan, King Saud University, Saudi Arabia. We are working with her research group on projects related to develop and apply crowd management technologies for Hajj and Umrah seasons.

Conference Presentations

- Studying the Implications for Local and Global Mass Gatherings Suspension in Saudi Arabia during the COVID-19 Pandemic, Knowledge Integration Forum, Ministry of Education (virtual meeting), Saudi Arabia, 2020.
- Estimating the Contact Rate between Individuals during the COVID-19 Pandemic in Saudi Arabia with Studying the Effect of School Closure Measure, Knowledge Integration Forum, Ministry of Education (virtual meeting), Saudi Arabia, 2020.
- Incorporating contact network uncertainty in individual level models of infectious disease using approximate Bayesian computation, Statistical Society of Canada Annual Meeting 2017, University of Manitoba, Winnipeg, Canada.
- Incorporating contact network uncertainty in individual level models of infectious disease using approximate Bayesian computation, Canadian Society for Epidemiology and Biostatistics (CSEB), Biennial Conference 2017, Banff, Alberta, Canada.

Professional Memberships

- Saudi Association for Exceptional Children, Unizah, Saudi Arabia.
- Saudi Society for Data Science, King Saud University.
- American Statistical Association.
- Statistical Society of Canada.