Waleed Khalaf M. Almutiry, Ph.D.

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Current Position

Assistant Professor of Applied Statistics (Biostatistics) — September, 2018 – present
College of Arts and Science, Ar Rass,
Qassim University

Education

Ph.D. (Applied Statistics; Application in Biostatistics and Epidemiology), — 2014 - 2018
University of Guelph, Guelph, Canada

Supervisor: Dr. Zeny Feng & Dr. Rob Deardon

Dissertation: Incorporating Contact Network Uncertainty in Individual Level Models of Infectious Disease within a Bayesian Framework.

M.Sc. (Statistics; Medical statistics pathway), — 2008 - 2009
University of Lancaster, England

Supervisor: Dr. Debbie Costain

Dissertation: Modelling the nasal carriage of Staphylococcus aurues in mothers and their infants over time.

B.Sc. (Mathematics), — 1998 - 2002
Qassim University, Saudi Arabia

Research Interests

- Infectious Disease Epidemiology for humans, animals, and plants.
- Spatial and network-based disease systems.
- Clinical trial epidemiology.
- Bayesian and Computational Statistics.
- Statistical and machine learning.
- Longitudinal Data Analysis.

Research Papers

- Almutiry, W., Warriyar, K. V. and Deardon, R., Continuous Time Individual-Level Models of Infectious Disease: EpiILMCT. *The Journal of Statistical Software,* ***(In Print)***.
- Almutiry, W. and Deardon, R. (2019). Incorporating contact network uncertainty in individual level models of infectious disease using approximate Bayesian computation. *International Journal of Biostatistics,* **doi:10.1515/ijb-2017-0092.**
- Otmani, S., Boulaaras, S., and Almutiry, W. (2019). 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, **doi: 10.3233/JIFS-179542.**
- Almutiry, W. and Deardon, R., Spatial contact network uncertainty in individual level models of infectious disease transmission. *Statistical Communications in Infectious Diseases*, ***(revision requested)***.

R[1] Packages

- **EpiILMCT:**
  - Almutiry W, Warriyar K V V, Deardon R (2019). EpiILMCT: Continuous Time Distance- Based and Network-Based Individual Level Models for Epidemics. R package version 1.1.4, URL https://CRAN.R-project.org/package=EpiILMCT .
- **EpiILM:**

[1] R is a freely available popular language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques.

- Currently working on developing the R package EpiILM of Warriyar K V V and Deardon R and its paper that is conditionally accepted in *the R journal*.

Conference Presentations

- 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.

Collaborative Research

- Collaborating with MD Mahsin (a PhD student 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.

Professional Experiences

Applied Health Science College, Ar Rass, Qassim University, Saudi Arabia

- Director of preparatory year program — January, 2011 – August, 2015

Applied Health Science College, Ar Rass, Qassim University, Saudi Arabia

- A lecturer of statistics — October, 2009 – August, 2012

Applied Health Science College, Ar Rass, Qassim University, Saudi Arabia

- Director of information and statistics centre — January, 2004 – December, 2006

Applied Health Science College, Ar Rass, Qassim University, Saudi Arabia

- A teaching assistant of Mathematics and statistics — December, 2003 – October, 2009

Technical College, Alkharj, Saudi Arabia

- A teacher of Mathematics — September, 2002 – December, 2003

Computer Skills

Operating systems: Windows and MAC OS.

Programming languages: expert in Fortran (OpenMP, MPI) and intermediate in Python.

Statistical softwares: professional in R programming and good at S-PLUS, MATLAB, SAS, SPSS.

Other softwares: LaTeX and Microsoft Office.

Professional Memberships

- American Statistical Association.
- Statistical Society of Canada.
- Canadian Society of Epidemiology and Biostatistics.

Languages

- Arabic and English.