Curriculum Vitae   Zeinab Mohamed

Contact Information	Department of Mathematics Oberlin College Severance Hall, 120 W Lorain St. Oberlin, OH 44074, USA	*Office:* 224 *Phone:* (956) 624-3574 *E-mail:* zmohamed@oberlin.edu

Education Background

University of Nebraska-Lincoln (UNL)   **2018-2023**
PhD. in Statistics
- *GPA*: **3.94**/4.00

University of Texas Rio Grande Valley (UTRGV)   **2015-2017**
Master's degree in Mathematics and Statistics
- *GPA*: **4.00**/4.00

Kuwait University, Kuwait   **2005-2010**
Master's degree in Statistics and Operations Research
- *GPA*: **3.77**/4.00

Cairo University, Egypt   **1997-2001**
B.Sc. in Statistics, (minor: Computational Socio-Sciences)

Professional Experience

07/2023-present	Oberlin College	**Assistant Professor**
08/2018-2023	University of Nebraska-Lincoln	**TA**
04/2018	Continuing Education UTRGV	**P-Time Lecturer**
08/2017-07/2018	University of Texas Rio Grande Valley	**F-Time Lecturer**
06/2015-05/2017	University of Texas Rio Grande Valley	**TA**
10/2009–05/2014	Public Authority for Applied Education	**P-Time Lecturer**
08/2004-05/2015	Kuwait Ministry of Education	**C.S Teacher**

Courses Taught

2019-2022	Introduction to Statistics, STAT 218 (Full Instructor)
Spring 2019	Design and Analysis of Research Studies, STAT 802 (TA)
Fall 2018	Statistical Methods in Research, STAT 801 (TA)
Summer 2018	Elementary Statistical Methods (Lecturer)
Spring 2018	Precalculus, College Algebra, GRE (Lecturer)
Fall 2017	College Algebra, Math for business, Elementary Statistical Methods (Lecturer)
2015-2017	Calculus II, Precalculus, College Algebra, Elementary Statistical Methods, Intermediate Algebra (TA)
2009-2014	Applied statistics I, Biostatistics, Elementary Statistics (Lecturer)

Publications	Mohamed Z., Guan Y. (2022). Data Fusion Methods For Air Quality Measurements. In progress.

- Mohamed Z., Guan Y., Zhou Y. (2022). SPDE Model For Massive Data Invasive Trees. In progress.
- Oraby T, Tyshenko MG, Balkhy HH, Tasnif Y, Quiroz-Gaspar A, **Mohamed Z.**, Araya A, Elsaadany S, Al-Mazroa E, Alhelail MA, Arabi YM, Al-Zoughool M (2020). Analysis of the Healthcare MERS-CoV Outbreak in King Abdulaziz Medical Center, Riyadh, Saudi Arabia, June-August 2015 Using a SEIR Ward Transmission Model.
- **Mohamed, Z.** & Oraby, T. (2017). Multi-Type Branching Processes Modeling of Nosocomial Epidemics. Stochastic and Quality Control, 32(2), pp. 63-75. Retrieved 11 Dec. 2017, from doi:10.1515/eqc-2017-0026.
- Al-Awadhi, F., Konsowa, M., and **Najeh, Z.** (2009) Commute times and the effective resistances of random trees. Probability in the Engineering and Informational Sciences, 23(4): 649-660.

Conferences and Presentations	10/2022	Women in Statistics and Data Science Conference "Data Fusion Methods For Air Quality Measurements"
	04/2017	Sixth Annual Statistics Day Texas A&M – Kingsville, TX. "Multi-Type Branching Processes Modeling of Nosocomial Epidemics"
	05/2009	Department Seminar "Commute Times and the Effective Resistances of Random Trees"

Workshops	08/2018	" Teaching Assistant Training" at UNL.
	09/2018	"Presenting Research To The Public" at UNL.
	09/2018	"Assessment" Motivating and revealing student thinking at UNL.
	04/2018	3rd Teaching Development & Teaching-Related Research Workshop. "Kagan Strategies in the Classroom"
	04/2015	District Teaching Workshop "Effective Learning & Technologies"

Projects	03/2020	Statistical Cross-disciplinary Collaboration and Consulting Lab: "Impact of Manure and Cedar Mulch Land Application on Agronomic and Soil Health Variables in Corn Production Systems"
	12/2020	Statistical Cross-disciplinary Collaboration and Consulting Lab: "Nitrogen Management in Irrigated Corn using Crop Sensor and Crop Model via Fertigation".
	04/2018	UTRGV Engaged Scholar Symposium (ES2). "Ticks in Texas". (Collaboration)

Posters	10/2022	Women in Statistics and Data Science Conference "Data Fusion Methods For Air Quality Measurements"
	05/2018	UTRGV Engaged Scholar Symposium (ES2). "Ticks in Texas". (Collaboration)

Achievements	02/2022	Top 31%, Kaggle Competion, "Nature never goes out of style!"
	02/2021	Rank 5, Model Inference (1a), KAUST Competition on Spatial Statistics for Large Datasets.
	03/2021	Rank 8, Model Prediction (1b), KAUST Competition on Spatial Statistics for Large Datasets.

Certificates for Addition In-Person & Online Courses

- Supervised Machine Learning, Stanford University.
- AI Advanced Learning Algorithm, Stanford University.
- Unsupervised Learning, Recommenders, Reinforcement Learning, Stanford University.
- Rcpp (R and C++), National Institute of Statistical Sciences.
- Spatial Statistical Learning, ISI.
- Large-Scale Spatial Data Science, ISI.
- Spatial and Spatio-Temporal Point Processes and Beyond, OSSP.
- SQL, Saudi Federation for Cybersecurity, Programming & Drones, Satr.Codes.
- Python for Data Analytics and Machine Learning Bootcamp.
- Bayesian statistics, University of California.
- Learning How to Learn, UC San Diego
- SPSS, Public Authority for Applied Education and Training,Kuwait.
- R, Scientific Research Center and Initiative Group,Egypt.
- Cooperative Learning Strategies Using Kagan Structures.
- International Computer Driving License (ICDL), Kuwait.
- Advanced Microsoft office word & excel, Kuwait.

Awards and Honors	Fall 2022	David H. and Annie E. Larrick Graduate Student Travel Award
	Spring 2017	The Outstanding International Student Scholarship, UTRGV
	2016-2017	Dr. Miguel Paredes Endowed Scholarship, UTRGV
		Nobel Laureate S. Chandraeskha Scholarship, UTRGV
		Margaret Draper Scholarship, UTRGV
	2015-2016	Presidential Graduate Scholarship, UTRGV
	2009-2015	Excellence Teaching Award, Kuwait Ministry of Education.

Academic Public Services	Fall 2021	Tutoring in William H.Thompson Scholars Learning Community lab in UNL for undergraduate.
	Spring 2018	Math tutoring for elementary, middle and high-school students in the Islamic Community Center, Tx.

Software and Programming Languages	R
	SAS
	Python
	Matlab
	SQL
	LaTeX, Office(Word, Excel, Powerpoint)