

Curriculum Vitae

PERSONAL INFORMATION

Name: Emad Elsayed Aly Elmahdy

Qualification: Ph.D. in Applied Mathematics

Date of Birth: 19/10/1968

Place of Birth: Alexandria, Egypt.

Nationality: Egyptian

Marital Status: Married

Languages: Arabic, English



PERMANENT ADDRESS

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Work:

(Present address)

King Saud University,
Science College, Math. Dept.
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TITLE AND EDUCATION

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|------|---|
| 2006 | Ph.D. in Applied Mathematics,
Faculty of Science, Tanta University, Egypt. |
| 2001 | M.Sc. in Applied Mathematics,
Faculty of Science, Tanta University, Egypt. |
| 1993 | Diploma of Higher Studies in Geophysics, Alexandria
University, Egypt. |

1990 B.Sc. in Mathematics,
Faculty of Science, Alexandria University, Egypt.

ACADEMIC APPOINTMENTS

2014- Now Assistant Professor, Department of Mathematics,
Science College, King Saud University,
Riyadh, Saudi Arabia.

2008-2014 Assistant Professor, Department of Mathematics,
Teachers College, King Saud University,
Riyadh, Saudi Arabia.

2003 - 2008 Lecturer of Applied Mathematics and Statistics, Department
of Mathematics, Faculty of Education, King Khalid
University, Saudi Arabia.

2002- 2003 Assistant Lecturer of Applied Mathematics, Department
of Mathematics, Faculty of Science, Tanta University,
, Egypt.

COURSES TAUGHT

ACADEMIC YEAR	COURSES		NOTICES
	Code	Name	
2003-2008	MATH 101	Calculus 1	In Faculty of Education, Khalid University, Sarat Obidah, KSA.
	MATH 121	Calculus 2	
	MATH 221	Calculus 3	
	MATH 171	Statics	
	STAT 101	Introduction in Probability and Statistics	
	STAT 241	Probability Theory	
	MATH 212	Dynamics	
	APPL.MATH	Mechanics (Fluid Dynamics- Elasticity Theory)	
	MATH 280	Introduction in Programming	
	MATH 452	Numerical Analysis	

2008-2014	MATH 461	Applied Mathematics	In Teachers College, King Saud University, Riyadh, KSA.
	MATH 231	Probability and Statistics (1)	
	MATH 232	Probability and Statistics (2)	
	MATH 332	Probability and Statistics (2)	
	MATH 333	Statistical Methods	
	MATH 362	Mathematical Methods	
	MATH 447	Linear Algebra	
	MATH 242	Linear Algebra	
	MATH 142	Algebra	
	MATH 381	Mathematical Programming with Maple	
	MATH 104	Mathematics for Science (1)	
	MATH 120	Analytical Geometry And Algebra	
	MATH 122	Plane Geometry and Transformations	
	MATH 201	Calculus 1	
	MATH 204	Advanced Calculus	
	MATH 251	Mathematical programming	
MATH 353	Linear programming		
MATH 454	Numerical Analysis		
2014-Now	MATH 203	Differential and Integral Calculus	In Science College, King Saud University, Riyadh, KSA.
	MATH 107	Vectors and Matrices	
	MATH 106	Integral Calculus	
	MATH 111	Integral Calculus	

SCIENTIFIC ACTIVITIES

Fellowships - Membership - Supervisor

- (1) A reviewer in Elsevier journals
- (2) A member in American Association for Science and Technology (AASCIT).
- (3) A chair of Self Evaluation committee, Math. Dept., Teachers College, Riyadh, KSA, 2011-2012.

- (4) A member in Websites committee concerned in Developing Electronic Websites for Staff., Teachers College, Riyadh, KSA, 2010-2011.
- (5) A member in Quality committee, Math. Dept. Teachers College, Riyadh, KSA, 2010-2014.
- (6) A chair of Graduate Affairs and employment committee, Math. Dept., Science College, Riyadh, KSA, 2014-2016
- (7) A member in Applied Math. Committee, Math. Dept., Science College, Riyadh, KSA, 2014-2016.
- (8) A member in committee for preparation of Textbooks of students, Math. Dept., Science College, Riyadh, KSA, 2014-2016.

CONFERENCES AND WORKSHOPS

- (1) Training course Program “Advanced Topics in Survival Analysis”, University of Reading, United Kingdom, 9-11 July 2012.
- (2) Training course Program “Multivariate Analysis”, University of Reading, United Kingdom, 12-13 July 2012.
- (3) Conference of “The Mathematical Modeling with Matlab”, London, United Kingdom, 17 July 2012.
- (4) Seminar of “Mathematics of Networks” University of Warwick, United Kingdom, 20 July 2012.
- (5) Conference of “Mathematics and its Applications”, Al-Imam University, Riyadh, K.S.A, 23-24 March 2011.
- (6) Conference of “Finite Element Modeling using Comsol Multiphysics”, Al-Imam University, Riyadh, K.S.A, 9 March 2015.
- (7) Conference of “Scientific Publishing” Held in King Saud University, Riyadh, K.S.A, 11-13 October, 2015.
- (8) The Training Teaching Program Workshop Held in King Saud University, Riyadh, K.S.A, October, 2008.
- (9) The Training Computer workshop in Building and Developing Electronic Websites for Staff, Held in Teachers College, Riyadh, K.S.A, February, 2009.
- (10) The Preparatory Week of University Teaching Program, Held in King Saud University, Riyadh, K.S.A, October, 2010.
- (11) ISI Program Workshop Held in Research Center, Teachers College, Riyadh, K.S.A, 2011.
- (12) Alwakan Self-development Skills Workshop Held in Teachers College, Riyadh, K.S.A, 2011.
- (13) Self-Evaluation Workshops Held in Teachers College, Riyadh, K.S.A, 2011.
- (14) Toefl Program 2001, Amid-east, Cairo.
- (15) Advanced listening and Speaking Course in the Teaching Program at the American Center, Alexandria.
- (16) Toefl Program 1996, Alexandria. University.
- (17) Special Program in Computer Training for Graduate Students at Tanta

- University, 2001.
- (18) Special Program in Computer Training for Graduate Students at Tanta University, 2004.
- (19) Participating in Training Programs For Teachers College Graduates Held in Teachers College, Riyadh, K.S.A, 2010.
- (20) Outcome-Based Education “OBE” Program Workshops Held in King Saud University, Riyadh, K.S.A, 2011.
- (21) The Training workshop in Learning Management System Held in Teachers College, Riyadh, K.S.A, January, 2012.
- (22) The Training workshop in SPSS for Statistical Analysis Held in King Saud University, Riyadh, K.S.A, 2013.
- (23) The Scholarship of Teaching Learning and Curriculum Practice in Higher Education, Deanship of Skills Development, King Saud University, Riyadh, 2 Feb., 2015.
- (24) Educational Technology Innovation for Higher Education in 21st Century, Deanship of Skills Development, King Saud University, Riyadh, 4 Feb., 2015.

LIST OF PUBLICATIONS

1. “Reliability Analysis for Monte Carlo Simulation Using the Expectation-Maximization Algorithm for a Weibull Mixture Distribution Model” J Appl Computat Math (2016).
2. "A new Approach for Weibull modelling for reliability life data analysis", Journal of Applied Mathematics and Computation 250 (2015) 708-720.
3. "A new Approach for Parameter Estimation of Finite Weibull Mixture Distributions for Reliability Modelling", Journal of Applied Mathematical Modelling 37 February (2013) 1800–1810.
4. "Magneto-hydrodynamics Stability of A compressible Fluid Layer below A vacuum Medium ", Journal of Fractional Calculus 33 May (2008) 121-128.
5. "Capillary Stability of Compressible Fluid Jet Surrounding very Dense Cylinder", Journal of Fractional Calculus 31, May (2007) 101-106.
6. "Capillary Instability of a Streaming Fluid- Core Liquid Jet under Self Gravitating Forces", Mechanics and Mechanical Engineering 8 (2005) 127-141.
7. “A simple Method for Predicting the Cumulative Failures of Consumer Products during the Warranty Period”, Delta Journal of Science 25 (2001) 10-22.
8. "Failure Process Modeling and Estimation of a Component Mean Life Time", Delta Journal of Science 23 (1999) 73-88.

REFEREE (REVIEWER) FOR THE FOLLOWING RESEARCHES:

1. “Lifetime Data Analysis with 3-Parameter Weibull-related Models”, Ms. Ref. No.

RESS_2016_363, Journal of Reliability Engineering & System Safety (2016).

2. "Extracting clusters from aggregate panel data: a market segmentation study", Ms. Ref. No. AMC-D-15-03485R1, for Applied Mathematics and Computation (2016).

3. "Modelling the spatial heterogeneity of bovine tuberculosis in buffalo" Ms. Ref. No. AMC-D-15-04402 for Applied Mathematics and Computation (2016).

4. "The visualization and validation of Weibull models – a holistic approach to identifying heterogeneity", Ms. Ref. No. RESS-D-15-00256, Journal of Reliability Engineering & System Safety (2015).

5. "Life prediction for VFD based on two improved models using three- parameter Weibull right approximation method", Ms. Ref. No. RESS-D-15-00690, Journal of Reliability Engineering & System Safety (2015).

6. "Robust estimations of survival function for Weibull distribution", Ms. Ref. No. HJMS - 15-06, Hacettepe Journal of Mathematics and Statistics (2015).

7. "Dynamical Systems Theory" Journal of Computational and Applied Mathematics (2015).

8. "Experimental Testing and Life Estimation of OLED at Normal Working Stress Based on Luminance Degradation Model" Ms. Ref. No. JTE-2013-0294, Journal of Testing and Evaluation (2014).