



Mahmoud A. Abdel-Fattah

Assistant Professor (PhD) of Statistics,
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Education

PhD in Statistics	FGSSR - Cairo University - Cairo, Egypt	2017
Dissertation Title: “Beta-Type Generalized Linear Models”		
MSc in Statistics	FGSSR - Cairo University - Cairo, Egypt	2013
Thesis Title: “Estimation of Seemingly Unrelated Regression in Case of Multicollinearity”		
BSc in Statistics	Major: Statistics, Minor: Computer Applications in Social Sciences Faculty of Economics and Political Science (FEPS), Cairo University, Egypt	2009
CIPT	Management Development Institute, Missouri State University, USA	2018

Work Experience

Assistant Professor	FGSSR - Cairo University Sadat Academy for Management Sciences	5/2017 – Till Now 2019 – 2021
Assistant Lecturer	FGSSR - Cairo University	12/2013 – 5/2017
Teaching Assistant	FGSSR - Cairo University	11/2010 – 12/2013
Member of Quality Assurance Unit	FGSSR - Cairo University	11/2010 – Till Now

Work Experience – Continued

Trainer	FLDC - Cairo University	2/2018 – Till Now
Executive Administrator	FLDC - Cairo University	4/2017 – 2/2018
Executive Administrator	Blended Learning Center of Cairo University	2017 – Till Now
Statistical Consultant	Cairo University	5/2017 – Till Now
Statistical Researcher	Information and Decision Support Center (IDSC), Egyptian Cabinet	7/2009 – 12/2010

Training Courses Attended

• E-Learning	FLDC - Cairo University	7/2011
• International Publishing of Research	FLDC - Cairo University	9/2011
• Financial Aspects and University Legal	FLDC - Cairo University	2/2012
• Quality Standards in Teaching	FLDC - Cairo University	5/2012
• Communication skills	FLDC - Cairo University	9/2012
• Competing for Research Funds	FLDC - Cairo University	1/2013
• University Code of Ethics	FLDC - Cairo University	12/2013
• Effective Teaching Skills	FLDC - Cairo University	3/2014
• Conference Organization	FLDC - Cairo University	5/2014
• The Credit Hour Systems	FLDC - Cairo University	9/2014
• Strategic Planning	FLDC - Cairo University	1/2015
• Community Participation	CUCQAE	1/2016
• Research Ethics	FLDC - Cairo University	5/2016
• Exams and Standards Evaluation Process	FLDC - Cairo University	9/2016
• Crisis Management	FLDC - Cairo University	12/2017
• Certified International Professional Trainer	Missouri State University, USA	2018
• Critical Thinking	FLDC - Cairo University	4/2020
• Art of effective Leadership	FLDC - Cairo University	5/2020
• Data Science Math Skills - Coursera	Duke University, USA	6/2020
• Machine Learning Foundations: A Case Study Approach	University of Washington, USA	6/2020
• Machine Learning Regression	University of Washington, USA	6/2020
• The Data Scientist's Toolbox	Johns Hopkins University, USA	6/2020
• Data Analysis Track - Udacity	1 Million Arab Coders Initiative	6/2020
• Python Programming Basics	ITI, MCIT	7/2020
• Electronic Assessment	MAC, Ministry of Higher Education	8/2020
• Data Challenger Track - Udacity	Egypt FWD Initiative	8/2020
• Effective Presentation Skills	FLDC - Cairo University	9/2020
• Essentials of Integrated Education	FLDC - Cairo University	1/2021
• Digital Transformation	Supreme Council of Universities	4/2021

Training Courses Delivered

• Statistical Analysis of Bio-Experiments	FLDC - Cairo University (Weekly/Monthly) 2018 - Till Now
• Data Analysis Using SPSS (Level 1)	FGSSR - Cairo University
• Data Analysis Using SPSS (Level 2)	FGSSR - Cairo University
• Introduction to Mathematics	FGSSR - Cairo University
• Introduction to Statistics	FGSSR - Cairo University

Courses Taught

- Participated in teaching the following courses in English and Arabic
 - **Faculty of Management Sciences, Sadat Academy for Management Sciences, Ministry of State for Administrative Development, Egypt:**
 - **For Undergraduate Students**
 - Statistics I
 - Statistics II
 - Operations Research
 - Mathematics I
 - **Faculty of Commerce, Cairo University, Egypt:**
 - **For MSC Students**
 - Econometrics
 - **Faculty of Nursing, Cairo University, Egypt:**
 - **For Undergraduate Students**
 - Introduction to Statistics
 - **Faculty of Dar al-Ulum, Cairo University, Egypt:**
 - **For MSC Students**
 - Introductory Statistics I
 - **For PhD Students**
 - Introductory Statistics II
 - **Faculty of Graduate Studies for Statistical Research, Cairo University, Egypt:**
 - **For Professional Diploma Students**
 - Introduction to Statistics
 - Introduction to Categorical Data Analysis
 - Mathematical Methods for Time Series
 - Time Series and its Applications
 - Econometric Methods
 - Time Series and Box and Jenkins Models
 - **For Professional Master Students**
 - Univariate Time Series
 - **For Academic Diploma Students**
 - Statistical Analysis
 - Project Preparation Skills
 - Sampling Techniques
 - **For MSc Students**
 - Data Analysis
 - Advanced Econometrics II
 - Shrinkage Estimators
 - **For PhD Students**
 - Advanced Linear Models

Statistical Programs

- R – RStudio - Jaguar - R Commander - Deducer
- Python
- PostgreSQL
- GPower
- SPSS
- Minitab

- EViews
- GraphPad Prism
- Statistics and Sample Size
- NCSS
- PASS
- Stata
- JASP

Research Areas

- Applied statistics
- Biostatistics
- Data science
- Generalized linear models
- Non-linear models
- Non-normal models
- Multicollinearity problem
- Regression analysis
- SUR models
- Shrinkage estimators

Peer Review

- The Egyptian Population and Family Planning Review
- The Egyptian Statistical Journal
- Computational Journal of Mathematical and Statistical Sciences
- The Annual International Conference on Data Science
- The Annual International Conference on Statistics, Computer Science and Operations Research

Articles Published

- Abdel-Fattah, M. A. (2024). Improved Liu-Ridge-Type Estimates for the Beta Regression Model. *Journal of Statistical Computation and Simulation* 94 (16): 3533–54. doi:10.1080/00949655.2024.2396001.
- Abdel-Fattah, M. A. (2022). On a New Class of Binomial Ridge-Type Regression Estimators. *Communications in Statistics - Simulation and Computation*, 51 (6), 3272-3290.
- Robert E. H., Mousa A. M. and Abdel-Fattah M. A. (2022). Evaluation of a Functional Time Series Model for Forecasting Inflation in Uganda. *Journal of Statistics Applications & Probability*, 11, No. 2, 523-534
- Mohamed, A. M., Abdel-Fattah, M. A. and ALdirawi, A. S. M. (2021). A Comparison between Classification Statistical Models and Neural Networks with Application on Palestine Data. *Journal of Mathematical and Computational Science*, 11, 3916-3926.
- El-Leithy, N., Ahmed, H., Edrees, B., and Abdel-Fattah M. A. 2021. Applying Lean Six Sigma to Improve the Curriculum Design and Development Process. *SSRN Electronic Journal*. doi:10.2139/ssrn.3879743
- Mohamed, A. M., Abdel-Fattah, M. A., and Aldirawi, A. S. M. (2020). A Comparison between Classification Statistical Models and Neural Networks with Application on Palestine data. *Journal of University of Shanghai for Science and Technology*, 22(10), 1152-1164.
- Mousa, A. M., El-Sheikh A. A. and Abdel-Fattah, M. A. (2016). A Gamma Regression for Bounded Continuous Variables. *Advances and Applications in Statistics*, 49(4), 305-326.
- El-Sheikh A. A. and Abdel-Fattah, M. A. (2016). On The Efficiency of Regression Estimators for Bounded Continuous Variables - A Simulation Study. *The 51th Annual International Conference on Statistics, Computer Science and Operations Research, Faculty of Graduate Studies for Statistical Research, Cairo University, Egypt*.
- Abdel-Fattah, M. A. (2013a). A Statistical Approach to Handle Multicollinearity in SUR. *The 25th Annual International Conference on Statistics and Modeling in Human and Social Sciences, Faculty of Economics and Political Science, Cairo University, Egypt*, 141-158.

- Abdel-Fattah, M. A. (2013b). Proposed SUR-ridge Estimators with Application. The 48th Annual International Conference on Statistics, Computer Science and Operations Research, Faculty of Graduate Studies for Statistical Research, Cairo University, Egypt, 46-61.

Students Supervised

- Served as a supervisor for many graduate students at Cairo University.

Research Studies

- Participated in many research studies, Egyptian Cabinet Information and Decision Support Center, Egypt:
 - Arab Reform Observatory,
 - Egyptian Household Observatory,
 - World Values Survey,
 - Human Development,
 - Research and Development Indicators,
 - Tourism,
 - Corruption,
 - Smoking,
 - and Higher Education Indicators.

Workshops, Conferences, Other

- Participated in a workshop about “Cybersecurity” organized by the Technology Innovation and Entrepreneurship Center (TIEC) of the Ministry of Communications and Information Technology (MCIT) in 2021.
- Participated in a workshop about “Entrepreneurship” organized by the Creativa Menofia of the Ministry of Communications and Information Technology (MCIT) in 2021.
- Presented a workshop about “Simulation Using R Programming Language” at the Faculty of Science of Tanta University in 2016.
- Participated in a workshop about “Egyptian Science, Technology and Innovation Observatory”, organized by the United Nations in collaboration with the Egyptian Cabinet Information and Decision Support Center in 2010, Marriott hotel, Cairo, Egypt.
- Participated in the Annual International Conference on Data Science organized by the Faculty of Graduate Studies for Statistical Research at Cairo University, Egypt.
- Participated in the Annual International Conference on Statistics and Modeling in Human and Social Sciences organized by the Faculty of Economics and Political Science at Cairo University, Egypt.
- Participated in the Annual International Conference on Statistics, Computer Science and Operations Research organized by the Faculty of Graduate Studies for Statistical Research at Cairo University, Egypt.
- In 2010, participated in filling and creating the content of the following websites at the Egyptian Cabinet Information and Decision Support Center, Egypt:
 - the Higher Education Portal,
 - the Adolescent Development and Participation Portal,
 - and the Field Surveys and Statistical Analysis Bank.
- Member of Faculty Club at Cairo University since 11/2010.
- Training members from the Ministry of Youth in 2010 for managing the content of the Adolescent Development and Participation Portal.