

Israa Lewaa Elhamd Abdullah Abdelbasir Sayed Ahmed

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Education

- 2024** Sampling Program for Survey Statisticians, Institute of Social Research, Michigan University.
- 2023** **Fellowship status from the Higher Education Academy (FHEA)**, In recognition of attainment against the UK Professional Standards Framework for teaching and learning support in higher education.
- 2023** PHD degree in statistics for a topic entitled "**Statistical Data Integration Using a Latent Class Model**" with excellence, Statistics department, Faculty of Economics and Political Science, Cairo University.
- 2017** Master's degree in statistics, Statistics department, Faculty of Economics and Political Science, Cairo University.
- 2012-2013** Pre-master program in statistics, Faculty of Economics and Political Science, Cairo University
- 2008-2011** B.Sc., statistic department, Faculty of Economics and Political Science, Cairo University
Major: Statistics (Time Series Analysis, Econometrics, Sampling, Quality Control, multivariate analysis, Regression analysis, Demography, Experimental Design, Decision making, Statistical Packages).
Minor: Economics (macro and micro economics, money and banking, economic development, international economics, econometric , national accounting, economic growth , history of economics thought).
- Fourth-Year Grade:** Excellent
Graduation Project Grade: Excellent
- 2008** Fatima El-Zahraa secondary school
Grade: 99.8%

Professional Experience

Teaching

- 2023 – till now** **Assistant Professor:** Statistics, Business Math, Quantitative methods, Business Modelling and Forecasting, and Research Methods. The British University in Egypt "BUE"
- 2019- 2022** **Teaching Assistant:** Statistics, Business Math, Quantitative methods, Business Modelling and Forecasting, and Research Methods. The British University in Egypt "BUE"
- 2017-2019** **Teaching Assistant:** Statistics I, Statistics II , Math I, Math II, Financial Math, Financial Markets, Operation Research. Modern Technology Information University "MTI"
- 2016-2020** **Teaching Assistant:** Math 1, Applied Statistics, Operation Research, Quality Control. Arab Academy for Science and Technology "AAST"- Part- Time Job
- 2015-2017** **Teaching Assistant:** Applied Statistics, Numerical Analysis, Operation Research, Linear Algebra – Science Valley Academy "SVA"- Faculty of Engineering - Part-Time Job
- 2014-2016** **Teaching Assistant:** Applied Statistics, Discrete, Operation Research, Probability - Elshourok Academy "SHA".
- 2012-2014** **Teaching Assistant:** Statistics 1, Statistics 2, Operation Research, Research Methods - High Institute For Computers & Management Information Systems "HICMIS".

Researcher

- 2016** Statistical Researcher: Data Analysis (**Built Environment Deprivation Index (BEDI)**). Architectural Studies and applications "**10 Toba Organization**"
- 2014** Statistical Researcher: "**HLB Makary Consultant**".
- 2012** Statistical Researcher: president Election, Woman Future. Egyptian Foundation for Public Opinion Research "**Baseera**"

Publications

Lewaaelhamd, I., & Iskander, M. G. (2025). Poverty prediction using machine learning models: Insights from HICES survey in Egypt. *Statistics, Optimization & Information Computing*.

Salem, R. A., Lila, S., & Lewaaelhamd, I. (2025). The impact of Russian–Ukrainian conflict on international financial markets: a comparative analysis of oil-importing and oil-exporting countries. *Journal of Chinese Economic and Foreign Trade Studies*.

Hassouna, D., & Lewaaelhamd, I. (2025). Corruption perception, institutional quality and performance of Egyptian-Listed companies: evidence from econometric models. *Journal of Financial Reporting and Accounting*.

Pasha, R., & Lewaaelhamd, I. (2024). A comparative study on bank income diversification: which non-interest income component is beneficial?. *Journal of Chinese Economic and Foreign Trade Studies*.

Lewaaelhamd, I. (2024). Customer segmentation using machine learning model: an application of RFM analysis. *Journal of Data Science and Intelligent Systems*, 2(1), 29-36.

Ismail, M. A., Hafez, M. S., & Lewaa, I., (2023). Statistical Data Integration Using Machine Learning Models: Insights from Egyptian Surveys. *The 37th Annual International Conference On Statistics and Modelling Human and Social Sciences*.

Lewaa, I., Hafez, M. S., & Ismail, M. A (2023) "Mixed Statistical Matching Approaches Using a Latent Class Model: Simulation Studies," *Journal of Statistics Applications & Probability*: Vol. 12: Iss. 1, Article 23.

Lewaa, I., Hafez, M. S., & Ismail, M. A (2021). Data integration using statistical matching techniques: A review. *Statistical Journal of the IAOS*, 1-20.

Zaki, M. E., Al-Hussain, S. A., Masand, V. H., Akasapu, S., Bajaj, S. O., El-Sayed, N. N. & Lewaa, I. (2021). Identification of Anti-SARS-CoV-2 Compounds from Food Using QSAR-Based Virtual Screening, Molecular Docking, and Molecular Dynamics Simulation Analysis. *Pharmaceuticals*, 14(4), 357.

Zaki, M. E., Al-Hussain, S. A., Masand, V. H., Akasapu, S., & Lewaa, I. (2021). QSAR and Pharmacophore Modeling of Nitrogen Heterocycles as Potent Human N-Myristoyltransferase (Hs-NMT) Inhibitors. *Molecules*, 26(7), 1834.

Jawarkar, R. D., Bakal, R. L., Zaki, M. E., Al-Hussain, S., Ghosh, A., Gandhi, A., ... & Lewaa, I. (2021). QSAR Based Virtual screening derived Identification of a Novel Hit as a SARS CoV-229E 3CLpro Inhibitor: GA-MLR QSAR modeling supported by Molecular Docking, Molecular Dynamics Simulation and MMGBSA calculation Approaches. *Arabian Journal of Chemistry*, 103499.

Masand, V. H., Zaki, M. E., Al-Hussain, S. A., Ghorbal, A. B., Akasapu, S., Lewaa, I. & Jawarkar, R. D. (2021). Identification of concealed structural alerts using QSTR modeling for Pseudokirchneriella subcapitata. *Aquatic Toxicology*, 239, 105962.

Ismail, M. A., Zahran, A. R. & Lewaa, I., (2016). R-Indicators Determinants: A simulation Study. *The 30th Annual International Conference On Statistics and Modelling Human and Social Sciences*.

Professional Presentations

Lewaa, I. (2023). Statistical Data Integration Using Machine Learning Models: Insights from Egyptian Surveys. Paper presented in *the 30th Annual International Conference On Statistics and Modelling Human and Social Sciences*, Faculty of Economics and Political Science, Cairo University.

Lewaa, I. (2014). On the Representativity Indicators with Applications on Egyptian Surveys. Paper presented in *the 30th Annual International Conference On Statistics and Modelling Human and Social Sciences*, Faculty of Economics and Political Science, Cairo University.

Lewaa, I. (2012). Disabled people: Comparison method (Graduation Project), 9th Annual Conference. Faculty of Economic and Political Science, Cairo University.

Summer Training

2011 Summer Training: Trading on stock market in economic news department, El WATAN for international Dev Co. Rep Office.

2011 Summer Training: HTML, Java Script. **Ministry of Telecommunication**, Smart Village

2010 Summer Training: ATM, customer service, loans, credit. **Cairo Bank**, Youssif Abbas Branch.

Courses

July 2011 "**Communication Skills** ", Best Aura Corporation

May 2011 "**Persuasion and Negotiation skills**", Faculty of economics and Political science.

April 2011 "**Economic challenges and how to invest in the Egyptian Stock Market**" Faculty of economics and Political science.

March 2011 "**New constitution for Egypt to discuss the nature of the Egyptian political system after the revolution**", Faculty of economics and Political science

September 2010 "**Career Self-Evaluation and Quality**", National Authority for Quality Assurance and Accreditation.

2007, 2008 "**English courses till level 12**", American Data center

September 2008 "**International computer Driving License ICDL**", Passed all modules required.

Certifications

August 2023 "**Amazon Web Services- Cloud Practitioner Certificate**", Amit Learning.

November 2022 "**Certificate of achievement – Data scientist**", 365 Data Science: Data Science Basics, Machine Learning in Python, Statistics, Mathematics, Python, SQL, Deep Learning.

October 2022 "**Fundamentals of Deep Learning**", NVIDIA.

September 2022 "**Data science diploma**", Instant Academy.

May 2022 "**Artificial Intelligence diploma**", Orange: Best project in the AI internship – Project for football Match Actions “AutoVar” – Computer Vision.

Feb 2025`

April 2022 **"Data Analyst Track"**, Information Technology Information (ITI).

March 2022 **"Data Analyst Professional Track"**, Udacity.

Personal skills

Highly adaptable, with creative problem solving skills

Team work and the ability to work under pressure.

Self motivation, ambitious and quick learner.

Willing to work hard and learn more all the way as I gain more.

Software Expertise

Statistical software: Python, R, SPSS, SAS, Minitab, STATA, GAMS, TORA, and E-VIEWS

Microsoft Office: Word, Excel, Power Point, Access

References

Available up on request