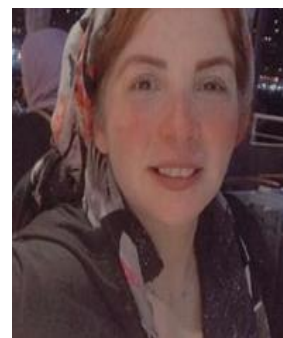# BERIHAN R. ELEMARY

ASSOCIATE PROFESSOR of Statistics
(Applied Statistics).

o Vice Dean for Higher Studies and Postgrads -NUB university.
o Academic Director for International Programs.

Teaching experience for more than 15 years in several governmental and private universities. Provided courses in the field of *Applied Statistics, Mathematics and Biostatistics, Statistical Industrial Analysis, Quantitative Methods and Operations Research. Data Analysis* using SPSS, Minitab and Python. Participate in international conferences. Published several academic books in statistics, mathematics and statistical computer applications. International and local scientific researches have been published in the field of Experimental Design, Industrial Engineering, and Mathematical Statistics. Shared in research related to Medical, Agricultural, Business Administration, and Machine Learning. Supervised some theses and graduation projects. Teaching experience for undergraduate & postgraduate programs. Also, considered as a reviewer in Scopus international journal (IEEE *Access*, *Communication in Statistics Mathematics and Statistics*).

Field Interest: Statistical Data Analysis, Clustering Techniques, Classification, Machine Learning, Data Mining, Statistical Experimental Designs and Repeated measure designs.

➢ ***Computer Skills:*** SPSS, Minitab, Python, QM, Mathematica, Mathcad and PH Stat.
➢ ***Administrative Skills:***
Decision-making skills, Collaboration & Time management, problem-solving, Ability to work under pressure, Self-motivation, and Multitasking. Encourage scientific research.

PERSONAL WEBSITE LINKS

https://scholar.google.com.eg/citations?user=74BJ8TEAAAAJ&hl=en
https://www.researchgate.net/profile/Berihan-Elemary
https://www.linkedin.com/in/dr-berihan-elemary-18899315a/
Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=57118157000
ORCID ID: https://orcid.org/my-orcid?orcid=0000-0003-3328-1139
https://www.mendeley.com/profiles/berihan-elemary/
Web of Science Researcher ID ABA-5364-2020
https://publons.com/researcher/3935866/berihan-elemary/
SCI profile: https://sciprofiles.com/profile/BerihanElemary

ACADEMIC EXPERIENCE

Associate Professor of Statistics

Faculty of Business Administration, NAHDA NUB University. Full-time.
The Arab Academy for Management, Banking and Financial Sciences (AAMBFS).
-School of Business & Economics, BUC University in Cairo.
-*Business Depart. Arab Open University.*
Faculty of International Business and Humanities (FIBH), Egypt-Japan University of science and Technology
Faculty of Economics and International Trade, Egyptian Chinese University (ECU).
Business Depart. CIC- Canadian International College.
Business Depart. Arab Open University.
Faculty of Business, Future University.
Trainer in International Academy for Training & Scholarship (ITAS) **MBA Program**.
Assistant Professor in Statistics and Mathematics (Full-time)
Department of Applied Statistics and Insurance, Faculty of Commerce, Damietta University, Egypt.
Lecturer in Statistics and Mathematics (Full-time)
Department of Applied Statistics and Insurance, Faculty of Commerce, Damietta University, Egypt

ADMINISTRATIVE EXPERINCE

- Vice Dean of Higher Studies & Postgrads.
- Academic Director of Northern Kentucky International Program at NAHDA University (NUB). (2021-).
- Assistant Director of the Quality Assurance Unit at NUB.
- Head of Statistical Training & Consultation Unit– NAHDA University (NUB).2021-2022.
- Head of Training & Media Unit at Faculty of Business Administration – NAHDA University (NUB), 2021-2022.
- Coordinator of Scientific Research at Faculty of Business Administration – NAHDA University (NUB), 2021-2022.
- Coordinator of Business Information System Program (BIS). Faculty of Business and Economics -BUC University, 2020-2021.
- Head of control – Faculty of Business and Economics -BUC University, 2019-2021.
- Head of Statistics and Quantitative Methods Department, Faculty of Business and Economics -BUC University, 2019-2020.
- Coordinator of Scientific Research at Canadian International College Egypt, 2017/2018.
- Head of Certifications Committee at Canadian International College Egypt, 2017/2018.
- Head of Control at Canadian International College (Business School), Egypt 1/10/2015 1/7/2016
- Coordinator of Development Performance Centre, Damietta University, Egypt. 11-2013
- Advisor to the Technical Activity Committee, Damietta University, Egypt 15/3/2013 15/3/2014

EDUCATION

ASSOCIATE PROFESSOR of Statistics, 2022.
PhD. Of Philosophy in Statistics, 2011.
Thesis: "INCOME DISTRIBUTION: A COMPARATIVE STUDY".
Faculty of Graduate Studies for Statistical Research, Cairo University.Egypt.
One-year pre-PhD. study for PhD. in Statistics.
Department of Applied Statistics, Faculty of Graduate Studies for Statistical Research, Cairo University, Egypt.
MSc. in Applied Statistics, 2001.
Dissertation: "Bootstrap Solution to the Problem of Heterogeneous Variances".
Department of Statistics, Mathematics and Insurance, Faculty of Commerce, Tanta University, Egypt.
Two-year pre-master studies for MSc. in Statistics. (General grade very good
Department of Statistics, Mathematics and Insurance, Faculty of Commerce, Tanta University, Egypt.
BSc. In Statistics, (with major grade Excellent).
Department of Statistics, Mathematics and Insurance, Faculty of Commerce, Tanta University, Egypt.

REVIWEER AT THE FOLLWING JOURNAL

- Communications in Statistics: Case Studies, Data Analysis and Applications.
- Statistics Mathematics and Statistics.
- International Journal of Research and Reports in Gynaecology.

MEMBERSHIP IN INTERNATIONAL ASSOCIATIONS

- Cross-National Data Centre in Luxembourg (LIS)
- The International Statistical Institute

PUBLISHED PAPERS

1. Ahmed Elshahhat, Abdisalam Hassan Muse, Omer Mohamed Egeh, Berihan R Elemary "**Estimation for Parameters of Life of the Marshall-Olkin Generalized-Exponential Distribution Using Progressive Type-II Censored Data**", Complexity, Hindawi, Vol. 2022. 2022. **WOS, Scopus Q2.**

2. Abdul Salam, Rashid Ahmed, Muhammad Daniyal, and Berihan R. Elemary **"Minimal Circular Nearly Strongly-Balanced Neighbor Designs When Left and Right Neighbor Effects are Equal"**, J. Stat. Appl. Pro., 1-10 (20–). Published online: 1 Sep. 2022. **Scopus Q3.**

3. Muhammad Nadeem, Rashid Ahmed, Qaisar Mehmood, Berihan R. Elemary **"Some New Constructions of Minimal Circular Partially Neighbor Balanced Designs"**, J. Stat. Appl. Pro., 1-10 (20–). Published online: 1 Sep. 2022. **Scopus Q3.**

4. Rida Jabeen, Rashid Ahmed, Mohammad Nasir and Berihan R. Elemary," **Some Generalized Classes of Efficient Circular Repeated Measurements Designs Which are Strongly Balanced".** J. Stat. Appl. Pro., Accepted: 08 Oct. 2021. Published online: 1 Sep. 2022. **Scopus Q3.**

5. Berihan R. Elemary, **Bayesian and Non- Bayesian Estimation for Parameters of Gompertz Distribution under Progressive Type-I Censoring Scheme**, Scientific Journal for Financial and Commercial Studies and Researches (SJFCSR). Vol. 3 (2), 673-708, (2022).

6. Ahmed Elshahhat and Berihan R. Elemary "**Analysis for Xgamma Parameters of Life under Type-II Adaptive Progressively Hybrid Censoring with Applications in Engineering and Chemistry**" Symmetry 2021, 13(11), 2112; https://doi.org/10.3390/sym13112112.**WOS, Scopus Q1.**

7. Berihan R. Elemary "**The Effect of Clustering Classification and Pre-processing of Text on Improving the Accuracy of Hadith'** Scientific Journal for Financial and Commercial Studies and Researches (SJFCSR). Vol. 2 (1), 547-576, (2021).

8. Abdelaal, H. M., Elemary B. R., and Youness H. A., "**Classification of Hadith According to Its Content Based on Supervised Learning Algorithms**," in IEEE Access, vol. 7, pp. 152379-152387, (2019). *doi*: 10.1109/ACCESS.2019.2948159. **WOS, Scopus Q1.**

9. Berihan R. Elemary, **Evaluation and improvement of promising rubber recycling OT machine using fractional factorial and response surface design**, Communications in Statistics: Case Studies, Data Analysis and Applications, (2019): Vol. 5, Issue 2, P: (121-137). Taylor & Francis.**, Scopus Q4.**

10. Nabil Ahmed Al Sakka - Berihan R. Elemary "**The importance of (age and gender) as demographic factors in the relationship between four sources of labor pressure and psychological combustion of faculty members and assistants at the University of Pharos**" (2020). 1st: Vol. 40 - Arab Journal of Administration.

11. Sherief Abd-Elsalam1, Ferial El-kalla1, Walaa Elkhalawany1, Samah Soliman1, Asmaa Elzeftawy, Lobna Abo Ali1, Berihan Elemary, Asem Elfert1 (2018) "**Pilot study of Orphenadrine as a new treatment for Muscle Cramps in Patients with Liver Cirrhosis**" **United European gastroenterology journal.** Vol.6, Issue 3. P: 422-427. SAGE. **WOS, Scopus Q2.**

12. Amani Abdel Halim- Berihan R. Elemary- Mohamed El-Kalyouby- (2017) **Analytical Study to Evaluate Marketing Performance in Non-Profit Organizations Scientific** Journal of Research and Commercial Studies - Faculty of Commerce - Helwan University.

13. Walid M. Atalla, Dina, H. Ziada, Rania Ghaber, Suzan Bayomy, and Berihan R. Elemary (2016), **"The Impact of Total Bile Acid Levels on Fetal Cardiac Function in Cholestasis of Presence A Tissue Doppler Imaging Study "** The Journal of Maternal-Fetal & Neonatal Medicine, Vol. 29, Issue 9, P: (1445-1450). Taylor & Francis. **WOS, Scopus Q2.**

14. Moghazy .M. S. and Berihan R. Elemary, (2015) **"Estimation of Optimum Plot Size, Shape and Replications in Wheat Experiments"**, The Egyptian Statistical Journal, ISSR, Vol. 59, Issue 1, P: 1-20.

15. Berihan R. Elemary and Ali, A.H. (2014), **"Entropy Density Maximization with Application to Income Distribution"** International Journal of Information Technology and Business Management, Vol.26 No.1. ISSN 2304-0777.

CONFERENCES PAPERS

1. Berihan R. Elemary "**The Effect of Clustering Classification and Pre-processing of Text on Improving the Accuracy of Hadith'** International Conference on Applied Science, Mathematics and Statistics. IIERD_46382, Vol. 20, 42-50, (2020). **EGYPT.**

2. Berihan R. Elemary "**Evaluation and Improvement of Promising Rubber Recycling Machine Using Fractional Factorial and Response Surface Statistical Design**". 11. International Statistics Days Conference 3 - 7 October 2018, Muğla Sıtkı Koçman University-Department of Statistics, **TURKEY**.

3. Rania Sokrat and Berihan R. Elemary "**The Significance of Employee Engagement's Impact on Egyptian Public Sector's Productivity Context**" International Conference on Novel Approaches in Social Sciences, Business and Economics". (NSBE) Acceptance May 15, (2018). **Thailand.**

4. Attia .A. F., Elsherpieny, E. A. and Berihan R. Elemary **"New Generalized Pareto as a Model for the Distribution of Income"**, Cairo Univ. The Annual Conference on **Statistics**, Computer Sciences & Operations, Research, ISSR, Cairo University, (2010) **EGYPT**.

FACULTIES TEACHING EXPERIENCE *Faculty of*: **Business Administration - Business Technology - Engineering – Pharmacy – Veterinary - Nursing - Mass communication.**

TEACHING COURSES EXPERIENCE

• Quantitative Methods	• Insurance and Risk Management
• Introduction to Statistics	• Calculus
• Applied Statistics & Operations Research	• Mathematical Theory
• Statistical Applications on Computer	• Business Mathematics
• Sampling Theory	• Financial Mathematics
• Multivariate Analysis	• Probability Theory
• Regression Analysis	• Mathematics Statistics
• General Linear Model	• Commercial Studies using software Applications
• Statistical analysis of industrial system	• Microeconomics
• Design of Experiments (DOE)	• Marketing Research
• Statistical Quality Control	
• Biostatistics	

COURSES TRAINING

1. **Exam assessment systems and student assessment** – January16-17th2022, National Authority for Quality Assurance and Accreditation in Education.
2. **International Publishing -** February 10-11th 2019, FLDC; Helwan University.
3. **Ethics of Scientific Research** -July 8-9th 2018, FLDC; Helwan University.
4. **Quality standards in the teaching process**- June 24-25th 2018, FLDC; Helwan University.
5. A training course for **Description of courses and programs and evaluation of learning outcomes** - the National Authority for Quality Assurance of Education and Accreditation (3 training days) from Sunday, 4/2/2018 to Tuesday, 6/2/2018.
6. **Multivariate Analysis** – from 7/4/2018 to 28/4/2018, Consulting Group (ESDAN).
7. **Design Experiments (DOE)** - from 9/12/2017 to 6/1/2018, Consulting Group (ESDAN).
8. **Management of the research team** 12-13 July 2017 Ain Shams University.
9. **University administration** 12-13 July 2017 Ain Shams University.
10. **Effective teaching** June 5th 2017 TG Ain Shams University.
11. **Quality and its Impact on High Education Institutes** June 12th 2016 Quality Assurance Unit- Canadian International College CIC.

12. **Research methodologies** June 14-15th 2016 Quality Assurance Unit- Canadian International College CIC.

2011 -2015   "Tanta Center of Faculty and Leadership Development – Tanta University".

1. **Training of Trainers (TOT)**
2. **Teaching Courses**
   - **Credit hours system**
   - **Use Technology in Teaching**
   - **Preparing a Professor, Mansoura University.**
3. **Scientific Research**
   - **How to complete for a research fund**
   - **Research Team Management**
   - **Research Ethics**
4. **Communication and Interaction**
   - **Code of Ethics**

TRAINING PROGRAMS AND WORKSHOPS EXPERINCES

- Statistical Analysis using Minitab
- Statistical analysis of data using SPSS statistical software
- Statistical skills in the preparation of management reports
- Quality control statistically
- Statistical Applications using EXCEL
- The statistical control for operations and maps quality control applications
- Introduction to Python

PUBLISHED ACADEMIC BOOKS (ARABIC)

- Applied Statistics & Operation Research, Faculty of Commerce, Damietta University, 2014. (& others).
- Introduction to Mathematics, Faculty of Commerce, Damietta University, 2014.
- Descriptive Statistics, Faculty of Commerce, Damietta University, 2014.
- Commercial Studies (Using SPSS Program), Faculty of Commerce, Damietta University, 2014.
- Statistical Analysis, Faculty of Commerce, Damietta University, 2013. (& others).
- Mathematics of Insurances, Faculty of Commerce, Damietta University, 2012. (& others)

PUBLISHED ACADEMIC BOOK (ENGLISH)

- Statistical Commercials Studies, Faculty of Commerce, Damietta University, 2014.
- Commercials Studies, Faculty of Commerce, Damietta University, 2013. (& others).

THESES ADVISING

2013   *MSc.: Entropy Density Maximization with Application to Income Distribution*
Researcher: Mohamed Ali Hassan
Advisors: Prof. Ahmed Fouad M. Attia. , Dr. Berihan Elemary