

Summary Profile

Suzan Abdel-Rahman is Assistant Professor at the Faculty of Graduate Studies for Statistical Research, Department of Biostatistics and Demography, Cairo University. She received a Bachelor of Science in Statistics from the Faculty of Economics and Political Sciences, Cairo University, in 2009. She obtained her MSc and Ph.D. degree in Demography and Biostatistics from the Faculty of Graduate Studies for Statistical Research. Member of the Social, Humanity, and Population research Council at the Egyptian Academy of Scientific Research and Technology. Analytical expert at the Department of In-depth Studies, Arab Family Health Project, League of Arab States. She participated in many projects funded by Cairo university. She is a reviewer for many high-impact journals such as PLOS ONE. She is a demographic



researcher, skilled in research tools and advanced statistical analysis, skillful in Statistical and demographic Software Packages: Python R, MATLAB, SPSS, STATA, Eviews, SPECTRUM, MORTPAK. Her research interests include Mortality and life tables, Health inequality, Gender issues, Mental Health, Poverty measurement, Population economics, and Climate change.

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Research interests: Poverty measurement, Population Economics, Inequality and Gender issues, Fertility, Health indicators, life tables, morbidity and mortality.

Current position: **Assistant professor**, Biostatistics and Demography, Faculty of Graduate Studies for Statistical Research, Cairo University.

Work experience

- **Assistant professor**, Biostatistics and Demography, Faculty of Graduate Studies for Statistical Research, Cairo University. (2022- Until now)
- **Assistant lecturer**, Department of Biostatistics and Demography, Faculty of Graduate Studies for Statistical Research, Cairo University (2016-2021)
- **Teaching Assistant**. Department of Biostatistics and Demography, Faculty of Graduate Studies for Statistical Research, Cairo University (2011-2016).
- **Lecturer** at Faculty of Nursing, Cairo University, “Fundamentals of statistics course ”, (October 2017 - July 2018).

Consulting assignments

- Analytical expert at the Department of In-depth Studies, Arab Family Health Project. League of Arab States. (July 2021- till now).
- **Reviewer** for many journals (May 2021- till now).
PLOS ONE journal, Q1 journal with impact factor 3.24.
Middle East Development Journal, Q2 journal
Review activity available at: <https://orcid.org/0000-0002-5779-0926>
- Member of the Social, Humanity and Population research Council, the Egyptian Academy of Scientific Research and Technology (September 2021- till now).
- Team Member, research project entitled “Characteristics of slum dwellers and their future needs: a case study of the areas surrounding the Cairo University”, the project is conducted by the Faculty of Graduate Studies for Statistical Research (FGSSR), funded by Cairo University (2021- till now).
- Team Member, research project entitled “Unemployment among graduates of Cairo University faculties”, the project is conducted by the Faculty of Graduate Studies for Statistical Research (FGSSR), funded by Cairo University. (2011-2012)

Main duties and responsibilities:

- Delivered courses for post-graduate students: Fundamentals of Statistics, Biostatistics course, Demographic Analysis, Population Economics, Mortality Analysis, Fertility Analysis, Exploratory multivariate analysis using R.
- Provided consultancy and assistance to post-graduate students pursuing their Graduation projects; specifically in analyzing data using statistical methods.

- Experienced in using national data and surveys, integrating databases, creating variables, and using weights) HIECS, EDHS, ELMPS, Egyptian censuses, LFS)
- Well versed in using statistical software: MATLAB, SPSS, STATA, R, EViews, besides Demographic tools: SPECTRUM, PAS.

Education

- **Ph.D. in Demographic and Biostatistics** (July 2021), Faculty of Graduate studies for statistical research, Cairo University
Dissertation title: “Measuring the Burden of Health Expenditure on Household Living Standard and Multi-Dimensional Poverty”. (Supervisor: Professor Farouk Shoaeb, Professor Mohamed Naguib Abdel Fattah, and Associate Professor Mohamed Reda Abonazel).
- **Master of Demographic and Biostatistics (2011-2016)**, Faculty of Graduate studies for statistical research, Cairo University.
Dissertation title: “Evaluation Mortality Data to Construct Life Tables by Occupation in Egypt”.
- **Bachelor of Science in Statistics (2005-2009)** with minor in Economics, Faculty of Economics and Political Sciences, Cairo University (high honors).
Graduation Project: “Using six sigma Technique for Measuring and Comparing the Performance”, Faculty of Economics and Political sciences, Cairo University (2009).

Publications

1. “**Estimating equivalence scales and non-food needs in Egypt: Parametric and semiparametric regression modeling**”. Coauthored with Mohamed R. Abonazel and Fuad A. Awwad, *PLOS ONE* (20/8/2021).
<https://doi.org/10.1371/journal.pone.0256017>
2. “**New measure of catastrophic health expenditures with application on rural Egypt**”. Coauthored with Mohamed R. Abonazel, *Middle East Development Journal* (28/7/2021).
<https://doi.org/10.1080/17938120.2021.1958560>.
3. “**Predictors of catastrophic out-of-pocket health expenditure in Rural Egypt: Application of Heteroskedastic Probit model**”. Co-authored with Mohamed R. Abonazel, Farouk Shoaeb and Mohamed Nagib Abdel-Fattah. *Journal of The Egyptian Public Health Association*, 2021. [DOI: 10.1186/s42506-021-00086-x](https://doi.org/10.1186/s42506-021-00086-x)

4. **“Semi-parametric Estimation of Engel curve and measuring food Poverty in Rural Egypt”**. Co-authored with Mohamed R. Abonazel, Farouk Shoaeb and Mohamed Nagib Abdel-Fattah. *Journal of applied probability and statistics*,2021. Part of ISSN: [ISSN 1930-6792](#)
5. **“Evaluation of Mortality Data to Construct Life Tables by Occupation in Egypt”**. Co-authored with Somaya El-Saadani. Annual Conference on Statistics, Computer sciences, and operations research. Institute of Statistical Studies and Research, Cairo University (2018).
6. **“Construction of Life Table by sex in Egypt for 2006”**. Co-authored with Somaya El-Saadani. 23rd annual conference on “Statistics and Modeling in Human, Faculty of Economics and Political sciences, Cairo University (2016).

Papers under review

- 1- **“Characteristics of slum residents in Egypt and their critical existing problems”**. Co-authored with Pro. Elsayed Khater and Pro. Mohamed Naguib Abdel Fattah
- 2- **“Social determinants of chronic disease reporting among slum dwellers in Egypt”**. Co-authored with professors Elsayed Khater, Mohamed Naguib Abdel Fattah, and Wafaa Abdelaziz.
- 3- **“New evidence of gender inequality during COVID-19 outbreak”**, accepted paper, awaiting proofs

Courses & Workshops

- **“Fundamentals of digital transformation”**, held by Faculty and Leadership Development Center- Cairo University, included (Fundamental of IT, Operating System, Word Processing, Presentations, Spread Sheets, Fundamentals of Database), (21 of May 2021)
- **“Data Visualization –The art/Skill Cocktail-Online Course”** research training held under the International Advanced Studies in Demography Research Training Program and The International Max Planck Research School for Population, Health and Data science. Rostock, Germany (18th of June 2020).
- **“Measuring Causal Effects in the Social Sciences”** an online non-credit course authorized by the University of Copenhagen (2021).
- **"Health Financing for Universal Health Coverage"** online Training course held by World Health Organization (WHO).
- **“Hypothesis Testing in Public Health”** an online non-credit course authorized by Johns Hopkins University (2021).

- **“Writing skills”** Course consisted of five modules, provided by Researcher Academy, Elsevier, (Mar 2021).
- Completed the Publons Academy Practical Peer Review course (May 2021)
- **“Topics in Digital and Computational Demography”** research training held under the International Advanced Studies in Demography Research Training Program and The International Max Planck Research School for Population, Health and Data science. Rostock, Germany (18th of November 2020).
- **“Fundamentals of Manuscript Preparation”** Course consisted of four modules, provided by Researcher Academy, Elsevier, (Nov 2020).
- **“Summary Statistics in Public Health”** an online non-credit course authorized by Johns Hopkins University (2020).
- **“Applied Econometrics using E-views”**, academic course taught by Prof. Ahmed Hassan Yousef, held under Faculty of Graduate studies for statistical research, Cairo University.
- **“Statistical and Demographic Measures of Migration”** short course taught by Dr. Ayman Zohry; held under Center for Migration and Refugee Studies, The American University in Cairo (2019).
- **“Applied econometrics using R”**, academic course taught by prof.Tarek A. Moursi., held under Faculty of Economics and Political Sciences, Cairo University (2018).
- **“Functional Data Analysis”**, Training Workshop held under Faculty of Economics and Political Sciences, Cairo University (2018).
- **“Analysis of Panel SYPE Data Using STATA Package”**, Training Workshop organized by the population Council, held under Faculty of Economics and Political Sciences (Cairo University (2016).
- **“Poverty and Inequality Measurements and Targeting Techniques”**. (Using the Statistical Package STATA). Training course Organized by The Equitable Development Observatory (EDO) (2014)
- **12 Trainings courses** held by Faculty and Leadership Development Center- Cairo University entitled: "The Credit Hour Systems", "University Code of Ethics", "Crisis Management", "Decision Making and Problem Solving", "Effective Teaching Skills", "Critical thinking", "Creative Thinking", "Research Ethics", "Communication Skills" "Legal& Financial Aspects in University", "Effective Presentation Skills", "Exams and students Evaluation".

***** all certificates are available on LinkedIn:**
<https://www.linkedin.com/in/suzan-abdel-rahman-7b497b150/>

SKILLS

- Fluent in Arabic (Native) and English.
- Excellent command of using Microsoft Office various Tools.
- Excellent command of using Internet Application and Research Skills.
- Skilled in writing research papers, preparing a conceptual framework, analyzing data, and discussing results.
- Skillful in Statistical Software Packages: R, MATLAB, SPSS, STATA, Eviews, SPECTRUM (Demographic Projections), MORTPAK

References

- Mohamed Naguib Abdel Fattah, Emeritus Professor. Department of Demography and Biostatistics, Cairo University. moh_naguib@hotmail.com
- Somaya M. Elsaadani, Emeritus Professor. Department of Demography and Biostatistics, Cairo University. ssaadani@aucegypt.edu
- Mohamed R. Abonazel, Department of Applied Statistics and Econometrics, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, Egypt. mabonazel@cu.edu.eg