Niveen Ibrahim Aly El Zayat

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Summery

A creative and self-motivated statistician, who is committed and has a proficient eye for details behind row data. Has extensive experience, about 15 years, of data management and analytical techniques. Worked independently and in a team work in many large scale research projects such as:

- World Health Survey (**WHS**) that conducted for the GCC States.
- The impact of Water Supply and Sanitation (**WSS**) on Child Diarrhea Prevalence" project using the data of **EDHS**, 2008.
- Egypt Labor Market Panel Survey (**ELMPS**) for rounds; 2006 and 2012.
- Egypt Labor Force Sample Survey (**ELFSS**) for rounds; 2007-2009.
- Arabic Human Development Reports (**A.H.D.R)**, 1st and 2nd editions.

Her main mission was to review data quality (missing data, data errors and inconsistence) to provide feedback with regards data cleaning as well as analyze, interpret and summarize cleaned data in preparation of generation of statistical and analytical reports

Besides, she also has a high teaching experience, about 10 years, due to her work as an instructor at dept. of Statistics, Faculty of Economics and Political Sciences. In addition, she instructs many courses in statistical analysis using STATA and SPSS statistical packages

Education

Ph.D. Candidate in Statistics   August 2013

Dept. of Statistics, Faculty of Economics and Political Sciences, Cairo University

- Dissertation: "Fitting Linear Mixed Model for Incomplete Multivariate Longitudinal Data"

M.Sc. in Statistics   August 2007

Dept. of Statistics, Faculty of Economics and Political Sciences, Cairo University

- Dissertation: "On the Selection of Prior Distributions in Bayesian Statistics"
- Grade: Excellent

B.Sc. in Statistics   May 1995

Dept. of Statistics, Faculty of Economics and Political Sciences, Cairo University

- Grade: Excellent with honors (Ranked the first).

Experience	**Lecturer Assistant**

Faculty of Economics and Political Sciences, Cairo University   Cairo,   Present
Statistics Department

Senior Statistician

Economic Research Forum (ERF),   Cairo,   1st March 2014–1st March 2015

- Help in developing the harmonization standards for the new micro data acquired by ERF

- Ensure that the data team maintains computerized tracking of all relevant data and required documentation at all project stages

- Create programs to clean, restructure and harmonized survey data in Arab countries using SPSS/ STATA , following the standards predefined by ERF. In addition, analyze and summarize data in preparation for generation statistical and analytical reports/ presentation using SPSS or STATA

Data Analyst

Freelancer   1st May –December 2013

- Assist the analysis work of the "Education Profile" of the great scale project of **ELMPS 2012** under the supervision of Dr. Asmaa Elbadawy, as a principle investigator.

- Examine and compare Education indicators over three survey rounds; ELMS1998, ELMPS 2006 and ELMPS 2012. All analysis tables and graphs are Implemented using STATA-11

Statistical Consultant

International Population Council, Regional Office,   Cairo,   1st May – Nov. 2012

- Analyzes data for the **Ishraq** project using STATA and SPSS packages. This is one of the most well-known projects that was created by the international population council in Cairo. This is a program for bringing marginalized rural girls into safe learning spaces, seeks to improve the educational, health, and social opportunities for vulnerable girls in rural Upper Egypt. Three governorates are selected to apply this project; Fayou, Sohag and Qena. Participates in the analysis of the project's data of both the baseline and endline stages
- Constructs probit/ logistic models for some interesting Ishraq outcomes such as Mobility, Harassment and Violence, Financial Literacy, Reading and Writing skills, Social Network
- Apply Propensity score matching process to measure the net effect of Ishraq program (in **Ishraq** village) compared to some control villages that were be selected to act as a control group

Statistical Consultant

International Population Council, Regional Office,   Cairo,   1st May 2010-Apr. 2011

Responsible for analyzing data, using STATA-10, for the following projects:

Experience

- Egypt Labor Force Sample Survey (**ELFSS)** for rounds 2007-2009. The data were analyzed on the quarterly base. First, employment variables such as (labor force participation, unemployment rate, monthly earnings, number of working hours, ...etc; using the narrow and broad definition of unemployment) were computed to be compared to **ELMPS 2006**. Second, logistic and linear models were generated to for men/women perspectives to quantify the change of these work variables trends over change in some explanatory variables such as education, residence and age
- "The impact of Water Supply and Sanitation (WSS) on Child Diarrhea Prevalence" project using the latest **EDHS** data. The impact of WSS was analyzed using the concept of propensity score matching to control for selection bias in water and sanitation sector. Moreover, logistic models were generated to study the variables affect both "Access to Uninterrupted improved source of water" and "Access to Improved Sanitation"

Statistician

World Health Organization (WHO), Eastern Mediterranean Regional Office (EMRO), Cairo, 26th Nov. 2008 – 31st Aug. 2009

Using STATA-10 statistical package to perform the following tasks:
- Reviews the data quality (missing data, data errors and inconsistencies) of Saudi, Oman, Kuwait, and UAE WHS, provides feedback with regards to data quality, and documents the master files of each survey with variable and value labels, and add weights and new derived variables
- Generates standard tables form the cleaned dataset for Saudi and Oman
- Analyzes the Breastfeeding data for UAE and provides technical report

Submits a typed assignment report in English (including executive summary, recommendations and plan of action)

Data Analyst

International Population Council, Regional Office, Cairo, 1st Aug. 2006- 31st Oct. 2007

- Participates in the data management and statistical analysis stage of a large scale project of "Egypt Labor Market Panel Survey (ELMPS) 2006"
- Maintains computerized collection and tracking of relevant data
- Develops the coding manuals and coding sheets for baseline survey and for developing computer data entry and data cleaning programs
- Uses STATA software to analyze and interpret research data

Data Analyst

Egyptian Center for Economic Studies (ECES) , Cairo, 1st May 2006-July 2006

Joins the data management stage of a large scale project of "Egypt Labor Market Project 2006" that assesses the unemployment in Egypt Labor Market, which has been implemented by Economic research Forum (ERF) in collaboration with the Central Agency for Public Mobilization and Statistics (CAPMAS) and under the supervision of Dr. Ragui Asaad as a principle investigator

Experience	**Data Analyst and Research Assistant**

Al-Mishkat Center for Research,   Cairo,   Dec. 1999 - Oct. 2005

- Joins work on the project of "Assessment of Educational Outcomes at the First Cycle of Basic Education", State of Bahrain using STATA. Work includes questionnaire designing, data entry, cleaning, management and data analysis using STATA-8
- Participates the edition work of the "Arabic Human Development Reports (A.H.D.R), 1st and 2nd edition)". Work includes descriptive and inferential analysis besides graphical presentation using STATA-8

Data Analyst and Research Assistant

Social Research Center (SRC) at AUC,   Cairo,   Jan. 1996 - Feb. 1997

Responsible for the statistical analysis stage of a large-scale national survey on Poverty in Egypt using SPSS program

Technical Skills

General skills in statistics and computing. Specific expertise and interests in:

- **Statistics**: Statistical modeling for categorical/scale data, longitudinal data. Bayesian statistical analysis, Bayesian time series analysis, statistical techniques such as general linear and mixed models, analysis of variance/covariance and survival analysis
- **Statistical software**: Mainly perfect in using STATA. Writing do-files to produce many kinds of analysis. Moreover, have a great experience in graphing with STATA using do-file. Also, have little experience on programing with STATA
- **Other statistical software**: NCSS, SPSS, MINITAB, EVIEWS, MATLAB and Data Desk
- **Text formatting and office computing**: LaTeX, Word, Excel, PowerPoint

Teaching Experience

Courses instructor   Jan. 2009
Information Technology Institute (ITI), Giza
Course Name: Statistical Analysis using STATA

Courses instructor   August 2008
World Health Organization (WHO), Regional Office in Cairo
Course Name: Statistical Analysis using STATA

Instructor   June 2007
The Population Council, in collaboration with the Social Research Center (SRC) at AUC
"Gender and Work Statistical Training Workshop" on the use of the 2006 Egypt Labor Market Survey Panel (ELMP) data in research using STATA statistical package

Teaching Assistant   1996-2006
Dept. of Statistics, Faculty of Economics and Political Sciences, Cairo University
My work assignment has included teaching many statistics courses such as:

- Introduction to Statistics
- Introduction to Math
- Statistics Theory (level-I)
- Sampling Theory
- Statistical Analysis using SPSS
- Time Series Analysis (using MINITAB)
- Experimental Design
- Econometrics (using MINITAB)
- Theory of Probability (level-I and level-II)

| **Training** | Al-Akhawayn university in Ifran, | Morocco, | July 5-13, 2000 |

Course Title: "Poverty Alleviation and Human Resource Development: Methodological Techniques on the use of Household Surveys"

Course organized by the Economic Research Forum (ERF) for Arab Countries and the World Bank Institute (WBI) and it includes basic techniques of data handling, statistics, and poverty analysis using real Household data sets

Research Interest

Doctoral research belongs to Biostatistics field. It focuses on using the linear-mixed model to estimate Multivariate Longitudinal data with missing values in responses of interest. Proposed techniques of estimation will be applied in medical life data and compared, via some performance criteria, to the existing techniques in the literature

Languages

- Arabic: Mother tongue

- English: Very good

- German: Fair