# Maya Fawzat Charrouf

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## PROFESSIONAL SUMMARY

Statistician with extensive experience in quantitative and qualitative analysis within the social protection field. Expertise in household and individual-level microdata analysis, welfare-targeting methodologies, and microsimulations. I am skilled in survey design, impact evaluations, and budget simulations. I am proficient in R, SAS, STATA, and database management and remain eager to explore new technologies and enhance project impact.

## EXPERIENCE

**Data/Research Analyst**
**United Nations Economic and Social Commission for Western Asia**          Beirut, Lebanon
**June 2021 - Present**

- Created the Social Protection Programme – Rapid Assessment Framework (SPP-RAF), a tool developed and recommended to different ESCWA Member States that uses administrative records for effective resource allocation and targeting the needs of the most vulnerable population of their social assistance programmes. The framework provides explicit guidance for policymakers on screening beneficiaries, clustering them into similar profiles, identifying their needs, and designing targeted policies to help them alleviate their hardship conditions.
- Implemented the tool successfully in several Member States including fragile and in conflict: Mauritania, Egypt, Tunisia, Jordan, and Palestine, facilitating the adoption of data-driven policies.
- Developed welfare-targeting methodologies, including Proxy Means Testing (PMT) to enhance social assistance programmes' targeting mechanisms.
- Played a pivotal role in designing, implementing, and conducting capacity-building workshops in multiple Arab countries to implement statistical tools that optimize social protection systems and project management activities.
- Developed cutting-edge machine learning tool, Country Driven Social Protection Optimization Tool (CD-SPOT). The tool optimizes the parameters of different assistance programmes in Household Income, and Expenditure Surveys (HIES) to ensure poverty reduction is maximized at the lowest possible budget by coordinating the aid provided and reducing overlaps.
- Designed and implemented household-level surveys in ESCWA Member States, for example in Yemen, that measures socio-economic demographics, assesses the satisfaction with social assistance programmes, and income disparities. Moreover, provided a technical capacity-building workshop for government officials on survey implementation and data-driven policymaking.
- Co-authored a regional policy brief addressing the post-COVID social protection landscape, demonstrating my commitment to addressing pressing regional issues.
- Developed interactive user-friendly dashboards using RShiny, including the CD-SPOT dashboard, to enhance data visualization and support decision-making in social protection programmes.
- Monitored Arab countries' news and maintained up-to-date and accurate databases.
- Assessed, in a supervisory capacity, inputs provided by consultants who contributed to publications.

**Tutor**
**Le Lycée National**                                                                 Bchamoun, Lebanon
**September 2020 – June 2021**

- Developed innovative online platforms tailored for effective teaching.
- Recognized the ever-evolving needs of students through adapting existing materials and crafted new content to align seamlessly with their requirements, ensuring a relevant and engaging learning experience.
- Took a proactive approach to student development by devising meticulous monitoring and evaluation protocols. These protocols have not only been implemented by my fellow educators but have also engaged parents in tracking students' progress and improvement.


**Research Assistant**
**United Nations Development Programme**                                    Beirut, Lebanon
**August 2019 – December 2019**

- Designed and successfully implemented data collection protocols, ensuring the accuracy and reliability of the information gathered.
- Provided valuable inputs to the Arab Development Portal, enriching its content with relevant insights. To maintain the portal's reputation for credibility, I've also developed rigorous quality control processes, verifying, and validating all data and information before publication.
- Lent my expertise to support the creation of materials for media outreach campaigns, further amplifying the impact of our data-driven initiatives.


**Tutor**
**Step Ahead Tutoring Center**                                              Choueifat, Lebanon
**October 2016 – June 2018**

- Facilitated the transition of high-school students to university life through a combination of personalized coaching and targeted technical training in quantitative skills. My dedication to their success has involved providing tailored guidance and support, equipping them with the necessary tools to excel academically and adapt smoothly to the challenges of university education.


## EDUCATION

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| **Sept 2021 – Sept 2022** | **Master II Degree in Statistics** | Hadath, Lebanon |
| | Lebanese University – Faculty of Sciences | |
| | *Thesis: Cost-effectiveness of breast cancer screening in Lebanon* | |
| **Sept 2019 – Oct 2020** | **Master I Degree in Statistics** | Hadath, Lebanon |
| | Lebanese University – Faculty of Sciences | |
| **Sept 2016 – Aug 2019** | **Bachelor's Degree in Statistics and Applied Mathematics** | Hadath, Lebanon |
| | Lebanese University – Faculty of Sciences | |

## SUMMARY SKILLS

**QUANTITATIVE SKILLS:** Advanced multivariate statistics, machine learning, risk management modeling, non-parametric statistics, generalized linear models, time series analysis, and stochastic optimization.

**PROGRAMMING:** R, Python, STATA, VBA, C++ (focused on web application development), Tableau, SPSS, SAS, and MATLAB.

**LANGUAGES:** Arabic (native), English (fluent), and French (basic).

**SOFT SKILLS:** Leadership & communication, team building, attention to detail, and flexibility to adapt to changing environments.

## KEY ACHIEVEMENTS

- **Technical:** Worked closely with decision makers in ministries of different countries on the country database in addition to household surveys to evaluate social protection programmes and provide data-driven policy recommendations for policymakers.
- **Administrative: -** Maintained 95% accuracy of large databases, compiled and organized information and reference materials from various sources. – Coordinated and conducted capacity-building workshops across countries, handling logistics, schedules, and reporting to ensure seamless execution.

## REFERENCES

Available upon request