



Amine AMAR

PhD, Statistician engineer and Consultant

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1- EDUCATION:

● **Marginal Revolution University, USA**
Certification in Development economics (2014)

● **University Mohamed V, Faculty of Sciences, Rabat, Morocco**
PhD in statistics (2014): Contribution of Extreme Values Theory (EVT) to the management of market, financial and hydro-meteorological risks (Directed by Pr. A. Zoglat and co-directed by Pr. S. El. Adlouni)

● **University Mohamed V, Faculty of sciences, Rabat, Morocco**
Master in statistics (2009): Comparison of criteria for model fitting and model selection in statistics (Directed by Pr. A. Zoglat)

● **Institute of Statistics and Applied Economics (INSEA), Rabat, Morocco**
Engineering degree (2006): Elaboration and implementing a modeling approach of halieutic stock of Octopus Vulgaris based on Delay Difference Model (Directed by Pr. G. Abdellaoui (INSEA) and Dr. A. Faraj (INRH)).

● **Higher School Preparatory Classes(2003, Marrakech)**

● **Bachelor in Mathematics Sciences, section B (Hassan II, high school, Marrakech)**

2- EXPERIENCES:

- **Moroccan Agency for Solar Energy (MASEN) (June. 2014-...)**
- In charge of monitoring and quality check processing of meteorological (especially solar) data.
 - Analyses of forecasting methodologies concerning meteorological (especially solar) data.

● **High Commission for planning, Morocco (Nov.2006-May.2014)**

✓ **12/2010: Senior Principal Engineer**

Thesis: Effects of minimum wage on employment and wage structure in Morocco; econometrics of non-stationary series.

✓ **05/2009: Member of HCP_CVS group**

Analysis and processing of seasonality in many sector time series

✓ **11/2008: Head of external trade indices department**

- National coordinator of statistics quality.
- Member of interdepartmental committee on electricity pricing.
- Completion of several missions as part of the strategic planning and implementation of the participatory approach about local development.
- Participation in several field missions: surveys, mapping and census operations.
- Participation in the development of several methodological issues: consumer prices index, wage index, construction cost index, foreign trade index.
- Evaluation of business cycles synchronization.
- Forecasting.

✓ **11/2006: Database administrator**

- Administration of the central database of statistics directorate database
- Administration of a regional database on Millennium Development Goals.
- Analysis of quality indicators and systemic approach to improve the national statistics system.

● **Euro-Maghreb Business Center, Morocco (2009-2011, Freelance)**

- Competitive intelligence marketing.
- Market studies
- Development of multi-criteria models
- Study of "quality barometer" and "mystery customer survey" for the development and the evaluation of a customer satisfaction index.
- Qualitative study of consumer patterns.

● **Consultant (2009-2013, Freelance)**

- Information flow mapping.
- Support systems decision.
- Analysis of information needs.
- Recommendation of information sources and tools
- Design of system support for strategic decision

3- SKILLS, ACTIVITIES, & INTERESTS:

● **SKILLS:**

- Econometrics, Operations research, Statistical modeling, Quantitative marketing and Data mining, Data processing and computer science, Solar data assessment Communication

● **ACTIVITIES:**

- **Seminars and training workshops:** Training on Solar Data Assessment (Mines Paris tech, 2015), Meteorological Technology World Exp (Brussels, 2014 and 2015), 5th International Perspective on Water Resources and the Environment Conference (Marrakech, 2012), Climate change adaptation seminar (Rabat, 2012), Third Workshop on the Application of Stochastic Models in Finance and in Risks Management (Rabat, 2013), 3rd International Conference of the Moroccan Society of Applied Mathematics (Marrakesh, 2012).

• **Communications and publications:**

- (1) Approche écosystémique et écologie industrielle : des concepts modernes pour une gestion environnementale responsable de la part des micro-entreprises (la vie de la micro-entreprise, numéro 2, Mai 2010).
- (2) Mise en place d'une procédure statistique pour la sélection des modèles en halieutique (Journal des Sciences Halieutique et Aquatique, 2010).
- (3) L'approche qualité au service du système d'information statistique (Repères Statistiques, Décembre 2011, HCP).
- (4) Contribution of Wavelet transformation and Empirical Mode Decomposition to measurement of U.S Core inflation. (Applied Mathematical Sciences, Vol. 6, 2012, no. 135, 6739 – 6752).
- (5) Statistical methods to expect extreme values: Application of POT, approach to CAC40 return index, (May 2012, International Journal of Statistics and Economics).
- (6) Managing hydrological risks with extreme modeling: application of peaks over threshold model to the loukkos watershed, MOROCCO (Journal of Hydrologic Engineering, 2014).
- (7) La gestion des risques par la théorie des valeurs extremes (Editions universitaires europeennes, 2014),
- (8) New Hybrid method to model extreme rainfalls (World Academy of Science, Engineering and Technology, International Journal of Environmental, Ecological, Geological and Geophysical Engineering, 2015).
- (9) Can we speak about a real positive side effect of Compensation Fund, regarding the inflation dynamics? The case of the Moroccan economy (International journal of statistics and economics, 2015).
- (10) Extreme values theory for dynamical systems: analysis of stability behavior in delayed Kaldor-Kalecki model (International Journal of Mathematical Analysis, Vol. 9, 2015, no. 43, 2139-2155)

• **Teaching experiences:**

Instructor and lecturer (SPSS, Modeling, Project Management) at ESC Toulouse-Casablanca. Supervision of several studies projects (Implementation of the Kalman filter for extracting the cycle trend. Analysis models robustness for selecting the predictive best approach. Assessment of performance. Implementation surveys).

● **Languages:**

Arabic, French and English.

● **Hobbies and personal skills:**

Athleticism practitioner, independent, responsible, organized and cooperative