

Ramzy Al-Amine

Economics | Statistics | ML | Software Engineering
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EXPERIENCE

• Mark Cuban Companies | Dallas Mavericks

Apr 2022 - Current

Machine Learning Engineer

Dallas, TX

- Built a video-based analytics pipeline to extract quantitative measurements on basketball shooting mechanics for identifying movement discrepancies between game and practice
- Developed educational AI activities and helped design the curriculum for the Mark Cuban Foundation's bootcamp that introduces AI basics in a fun and interactive manner to 1,500 high school students annually
- Constructed pricing benchmarks for healthcare services using commercial payer and hospital transparency datasets, Medicare payment systems, and private claim databases, for use in negotiating employer direct contracts
- Reported to Mark Cuban on a regular basis

• International Monetary Fund

Feb 2018 - Feb 2022

Research Analyst, Middle East Dep't | Strategy, Policy, and Review Dep't

Washington, DC

- Applied economic and statistical theory to real-world macroeconomic issues on exchange rate valuation, debt sovereignty, and balance of payments, including through program surveillance and financial monitoring (Morocco, Tunisia, Algeria, and Libya), publishing research papers, and producing flagship reports
- Made several analytical contributions to departmental publications on fragile states, trade integration, and low-income countries, and introduced novel data visualization on trade flows that were published in Article IV reports
- Maintained macroeconomic forecasts in structured databases for publication in the World Economic Outlook and helped implement machine learning models for crisis prediction under the Macro Risk Unit
- Received a departmental Innovation Champion award for building a research tool that aids economists in efficiently looking up and fetching data series from internal databases

• Etudes et Consultations Economiques

Jul 2013 - Jul 2016

Consultant

Beirut, Lebanon

- Produced business plans, market studies, and economic valuations using the discounted cash flow method for SMEs in the Middle East, and worked with clients on setting achievable targets for their businesses
- Developed the financial plan for a USD 45 Million glass container project in Lebanon and presented to investors who subsequently funded the project
- Designed and implemented the monitoring and evaluation framework for a large-scale, USAID-funded program that provides market access to women micro-entrepreneurs from the informal sector.

EDUCATION

• Georgetown University, Washington D.C.

2016-17

Master's of Arts in Applied Economics

GPA: 3.90

• American University of Beirut, Lebanon

2010-13

Bachelor's of Arts in Economics

Percentage: 83.50

CORE COMPETENCIES

Languages: Arabic, French, English | **Programming:** Python, Go | **Libraries:** NumPy, PyTorch, Scikit-Learn

Areas of interest: Neural Networks, Machine Learning, statistical modeling, probability theory, causal inference, Bayesian probability

PUBLICATIONS

• Investor Sentiment, Sovereign Debt Mispricing, and Economic Outcomes

Feb 2023

The Economic Journal (co-authored with Tim Willems)

URL

• Macroeconomic Policy Challenges in Conflict and Post-Conflict Countries

Jan 2021

Book Chapter, Oxford Press; (with co-authors)

URL

AWARDS

• Innovation Champion - International Monetary Fund, Department Awards

Jun 2019

• Athlete of the Year - American University of Beirut, Annual Awards

Jul 2013

• National Team Selection - Lebanon Men's Basketball (Under-18), FIBA Asia

Aug 2010