JAD MOAWAD

Data Scientist

@ moawad.jad@gmail.com   📞 (437) 575-2116   📍 Toronto, Canada

in LinkedIn   GitHub

EXPERIENCE

Postdoctoral Researcher — University of Oxford

📅 Septmeber 2023 — On going   📍 Oxford, United Kingdom

- Spearheaded quantitative analyses using machine learning on savings and investing behaviors across Europe and the US, uncovering key patterns and behavioral anomalies that informed policy recommendations for financial well-being.
- Led a randomized controlled trial (RCT) evaluating financial education's impact on investment behavior, improving participants' financial decision-making by 18 percentage points.
- Designed and deployed a 16-item survey using Qualtrics to gather data for a randomized controlled trial (RCT) on investing behavior. Recruited a demographically representative sample of 2,500+ people from the U.S. through Prolific, yielding high-quality data for causal analyses.
- Managed complex data pipelines using Python, integrating, cleaning, and transforming data from diverse sources for cross-national comparative analyses.
- Published 2 peer-reviewed articles in high-impact journals, demonstrating strong analytical capabilities and research expertise.

Expert Researcher — European Commission

📅 March 2022 — March 2023   📍 Seville, Spain

- Analyzed microdata from 12 countries using Python and R to identify critical trends in income and employment from 1980 to 2020.
- Created policy briefings based on complex data analysis that directly informed EU-level economic initiatives.
- Simplified complex statistical insights into clear, interactive dashboards that helped policymakers quickly grasp key trends and craft targeted interventions.

Ph.D Researcher — University of Lausanne

📅 Septmeber 2018 — August 2023   📍 Lausanne, Switzerland

- Applied machine learning (including supervised/unsupervised techniques), Natural Language Processing for textual analysis, and causal inference methods using Python and R to identify previously unrecognized patterns and potential outliers in socioeconomic data across 26+ countries.
- Designed and executed rigorous data harmonization protocols for large-scale, longitudinal, cross-national datasets comprising millions of observations.
- Created reproducible research workflows in R, enabling other researchers to build upon findings and ensuring analytical transparency.
- Presented research findings at 11 international conferences, effectively communicating complex statistical concepts to diverse audiences.
- Taught data analysis techniques to undergraduate and graduate students using R, covering advanced methods, missing data handling, and text analysis; consistently earned 90%+ satisfaction ratings.

EDUCATION

Master of Science in Data Science

University of Texas at Austin
Grade: 3.80

📅 2023–2024   📍 Austin, U.S.A.

PhD in Social Sciences

University of Lausanne
No grade per university policy

📅 2018–2023   📍 Lausanne, Switzerland

Master in Sociology and Demography

Pompeu Fabra University
Grade: 3.49

📅 2017–2018   📍 Barcelona, Spain

Master in Political Philosophy

Pompeu Fabra University
Grade: 3.45

📅 2016–2017   📍 Barcelona, Spain

Bachelor in Business Administration, emphasis in Financial Engineering

Notre Dame University

📅 2010–2013   📍 Zouk Mosbeh, Lebanon

PROGRAMMING & SOFTWARE

Git/GitHub Python R SQL
Power BI Tableau Qualtrics Excel

SKILLS

Statistics A/B Testing
Experimental Design (RCTs)
Causal Inference
Machine Learning Deep Learning
Time Series Analysis Linear Regression
Logistic Regression Multilevel
Mixed models
Project Management Survey research
Public Speaking

Business Intelligence Analyst   Lebanese Grand Laundry

LGL is the second largest industrial laundry in Lebanon

📅 January 2014 — August 2016   📍 Beirut, Lebanon

- Developed interactive KPI dashboards in Tableau that improved production throughput by 7%, resulting in an additional 400 pounds of processed laundry per shift.
- Built predictive forecasting models that enhanced demand prediction accuracy by 12%, optimizing resource allocation and workforce scheduling.
- Collaborated with operations teams to translate data insights into process improvements, eliminating key bottlenecks in the production workflow.
- Designed strategic Tableau dashboards that transformed complex data into clear visual insights, directly supporting executive decision-making.