

Shayan Abbasi

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Profile

Econometrist and Data Scientist with a **PhD in Quantitative Marketing** from McMaster University and a Master of Financial Economics from the Barcelona School of Economics. **Three years of experience** in data analysis within the Finance and Marketing sectors, specializing in **causal inference** and data-driven strategy. Adept at leveraging **text classification** to construct unique datasets for analysis. Research examines value appropriation, privacy policy, and the adoption of generative AI within the mobile app ecosystem. Technical toolkit encompasses **advanced econometrics**, **experimental design**, and **large-scale data processing** to derive actionable insights.

Cloud expertise in GCP (Compute Engine VMs, Vertex AI), **Agentic AI** (LangGraph, AutoGen) and extensive expertise in applying **Causal Inference** designs and methods (hypothesis testing, difference-in-differences, matching, RDD, IV, decision trees).

Education

Ph.D. Quantitative Marketing McMaster University	Aug 2022 - Mar 2026 Hamilton, Canada
Three essays in mobile app ecosystem: Value appropriation and business models, platform owner entry and complementors' response, and conversational assistant (Gen AI) integration in mobile apps.	
- Methods: DiD, Panel Data Regression, Zero-Shot Classification, Fine-tuned LLM for classification through GCP's Vertex AI custom model.	
Advisor: Dr. Manish Kraker	
Master of Applied Economics Autonomous University of Barcelona	Sep 2021 - Jul 2022 Barcelona, Spain
Master Thesis: Market Share Analysis in U.S. Markets.	
Master of Financial Economics Barcelona School of Economics	Sep 2020 - Jul 2021 Barcelona, Spain
Master Thesis: The financial consequences of corporate misconduct: A financial event study analysis.	
Bachelor of Economics University of Tehran	Sep 2016 - Jul 2020 Tehran, Iran
- Graduated with distinction - Minor: Computer Science	

Experience

Sessional Instructor DeGroote School of Business, McMaster University	Sep 2025 - Jan 2026 Hamilton, Canada
• Designed and delivered the full curriculum for Introduction to Marketing , including tutorials and assessments for undergraduate students.	
Data Scientist Shannon School of Business	Apr 2022 - Dec 2022 Sydney, NS
• Executed sentence classification experiments using Zero-Shot classification (Bart, ModernBERT) and Gemini models with batching and sample packing.	
• Architected data labeling using semantic similarity workflows to identify sentences aligned with abstract constructs, increasing model recall.	
• Validated and curated high-fidelity datasets on GCP (Vertex AI) , streamlining model training for production-grade NLP applications.	
Data Scientist United For Iran	Jan 2024 - Jun 2025 San Francisco, USA
• Streamlined decision-making by building automated dashboards .	

- Developed **dynamic geospatial interfaces** using Plotly, GeoPandas, and NetworkX for high-resolution spatial analysis of agent activity.
- Implemented **anomaly detection** and behavioral clustering (K-Means, GMM), identifying user behavior.
- Synthesized complex spatial and behavioral data into actionable technical reports for cross-functional stakeholders, translating anomaly detection findings into resource optimization strategies.
- Spearheaded reports on asset-level trends and resource optimization utilizing infrastructure diagnostics.

Data Research Assistant

McMaster University

Dec 2024 - Jan 2025

Hamilton, Canada

- Engineered **fuzzy matching** workflow for disparate datasets, streamlining data for longitudinal research.

Quant Developer

Quant Team

Oct 2020 - Dec 2020

Tehran, Iran

- Automated large-scale data ingestion and cleaning for panel datasets to ensure data integrity.
- Developed **risk models** utilizing Sharpe ratio, VaR, and Drawdown metrics.
- Implemented **arbitrage strategies**, Monte Carlo backtesting, and grid strategy for high frequency trading models.

Skills

Econometrics: Causal Inference (Hypothesis Testing, Diff-in-Diff, Matching, RDD, IV, Decision Trees), Statistical modeling, A/B Testing.

AI/NLP: Prompt Engineering (RAG, Variable injection, Batching, sample packing, etc.), Text Mining, Semantic Similarity, Agentic AI (LangGraph, AutoGen, Pydantic).

Machine Learning: Scikit-learn, TensorFlow, XGBoost, Decision Trees, LLM-based classification.

Programming Languages/Software Python (nltk, Pandas, NumPy, SciPy), R (Data.table, Tidyverse), SQL, Stata.

Cloud/DevOps: GCP (Compute Engine VM, Vertex AI), Git, Docker, PySpark.

Web/Extraction: Web Scraping (Selenium, BeautifulSoup, Proxy Management), Regex.

Conferences And Publications

Theory and Practice of Marketing (TPM) Conference, Austin, TX - Presented 2024

DeGroote Marketing Brown Bag Lunch (BBL) Seminar, Hamilton, ON - Presented 2024.

AMS Conference and Doctoral Symposium, Montreal, QC - Attendance 2025.

ET Symposium for Canadian Marketing Strategy, University of Guelph, ON - Attendance 2025.

Canadian Conference for Business Research Students (CCBRS): AI Horizons: Shaping the Future of Business Research Collaboration., Hamilton, ON - Presented poster 2025

Honors and Awards

DeGroote Distinguished Student Award; \$7,500 (2022–2025).

Ph.D. Office (DSB) Scholarship, McMaster University — \$45,000 (2022–2025).

DeGroote Supervisor Student Support; \$10,300 (2022–2025).

University of Tehran; Hami Scholorship for Distinguished Students (2019-2020).