

# 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 professional experience in data analysis within the **Finance and Marketing** sectors, specializing in causal inference, text classification, and data-driven strategy. Researcher focused on value appropriation, privacy policy, and the adoption of generative AI within the mobile app ecosystem. Specialized in advanced econometrics, experimental design, and large-scale data processing to generate 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

<b>Ph.D. Quantitative Marketing</b> 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: <a href="#">Dr. Manish Kraker</a>	
<b>Master of Applied Economics</b> Autonomous University of Barcelona	Sep 2021 - Jul 2022 Barcelona, Spain
Master Thesis: Market Share Analysis in U.S. Markets.	
<b>Master of Financial Economics</b> Barcelona School of Economics	Sep 2020 - Jul 2021 Barcelona, Spain
Master Thesis: The financial consequences of corporate misconduct: A financial event study analysis.	
<b>Bachelor of Economics</b> University of Tehran	Sep 2016 - Jul 2020 Tehran, Iran
- Minor: Computer Science	

## Experience

<b>Sessional Instructor</b> DeGroote School of Business, McMaster University	Sep 2025 - Jan 2026 Hamilton, Canada
• Designed and delivered the full curriculum for <b>Introduction to Marketing</b> , including tutorials and assessments for undergraduate students Focused on <b>scenario-based</b> learning.	
<b>Data Scientist</b> Shannon School of Business	Apr 2025 - Dec 2025 Sydney, NS
• Executed <b>sentence classification</b> experiments using <b>Zero-Shot classification</b> (Bart, ModernBERT) and Gemini models with batching and sample packing.	
• Architected data labeling using <b>semantic similarity</b> workflows to identify sentences aligned with abstract constructs, <b>improving model recall</b> .	
• Validated and <b>curated high-fidelity</b> datasets on <b>GCP (Vertex AI)</b> , streamlining model training for <b>production-grade NLP</b> applications.	
<b>Data Scientist</b> United For Iran	Jan 2024 - Jun 2025 San Francisco, USA
• Developed <b>dynamic geospatial dashboards</b> using Plotly, GeoPandas, and NetworkX for high-resolution spatial analysis of agent activity.	
• Implemented <b>anomaly detection</b> and behavioral clustering (K-Means, GMM), identifying user behavior.	
• Synthesized complex spatial and behavioral data into actionable technical reports for <b>cross-functional stakeholders</b> , translating anomaly detection findings into resource optimization strategies.	
• Spearheaded reports on asset-level trends and resource optimization utilizing <b>infrastructure diagnostics</b> .	

<b>Data Research Assistant</b> McMaster University	Dec 2024 - Jan 2025 Hamilton, Canada
• Engineered <b>fuzzy matching workflow</b> for disparate datasets, streamlining data for longitudinal research.	

  

<b>Quant Developer</b> Stealth Startup	Oct 2020 - Dec 2020 Tehran, Iran
• Automated large-scale <b>data ingestion</b> and cleaning for panel datasets to ensure data integrity. • Developed <b>risk models</b> utilizing Sharpe ratio, VaR, and Drawdown metrics. • Implemented arbitrage strategies, Monte Carlo backtesting, and grid strategy for <b>high frequency trading</b> models.	

## Skills

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**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

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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

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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).