

# MASOUMEH SHAHSAVARI

PH.D. Candidate

## PERSONAL INFO

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## EDUCATION

**Ph.D.** Operation and Supply Chain Management  
Temple University, Philadelphia, PA

**M.Sc.** Finance, University of Tehran, Tehran, Iran 2017

**B.Sc.** Electrical Engineering, Shahid Beheshti University, Tehran, Iran 2013

## MASOUMEH IN ABSTRACT

### ► +9 years of work experience:

- Modern Financial Instrument Expert at IFB, Iran (6 yrs)
- Technical Track Manage at POMS conference, USA (3 yrs- Volunteer)
- Research Assistant at Temple University, PA, USA (2 yrs)
- Teaching Assistant at Temple University, PA, USA (1 yrs)
- Instructor of Operations Management at Temple University, PA, USA (1 semester)
- Accountant at Bomid LLC, PA, USA (6 months- Volunteer)
- University entrance exam consultant, Iran (1 yr)

### ► Knowledge of:

- Advanced Data Analysis
- Data Visualization
- Large Dataset Management
- Uncertainty/Sensitivity Analysis
- Web Scraping
- Machine Learning (ML)
- Artificial Intelligence (AI)
- Image analysis
- Text analysis
- NLP/ Topic Modeling/ Word embedding
- Sentiment Analysis
- Game theory
- Project Management
- Inventory management
- Operations Management
- Causal Inference

### ► Technical skills:

- Programming: Python, R, Excel, Matlab, Mathematica, Stata, C++
- Statistical Analysis: ANOVA, Regression Analysis, Hypothesis Testing.
- Software: Microsoft Word, Excel, PowerPoint, Microsoft Project Management.

## PROFESSIONAL EXPERIENCE

**OPERATIONS MANAGEMENT INSTRUCTOR**, Fox School of Business, Temple University, PA **Summer 2024**

- Course: "Operations Management"
  - Key concepts in operations management, including Operations and Productivity, Capacity Planning, Layout (assembly line balancing), Forecasting, Decision Analysis, Aggregate Planning, Inventory Management, Project Management, Linear Programming, Transportation, Quality and Statistical Process Control, and Waiting Line Models.
  - Excel was primarily used to manage and analyze these concepts, providing practical experience in optimizing business processes and decision-making.

**ACCOUNTANT**, Bomid LLC, Philadelphia, PA

**Winter 2023 and Spring 2024**

- Worked as an accountant, recording transactions and preparing weekly reports for labor paychecks.
- Identified challenges with using separate files for different projects, which hindered comprehensive reporting and data verification.

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- Suggested and implemented an integrated system using Excel for recording project data, enabling more diverse reporting and facilitating easier data entry and management.

## **GRADUATE TEACHING ASSISTANT**, Fox School of Business, Temple University, Philadelphia, PA **2023 – Present**

- Assisted the professor as a Teaching Assistant (TA) in organizing group class activities.
- Responded to students' questions and provided support during lessons.
- Proctored exams, ensuring a fair and orderly examination process.

## **TECHNICAL TRACK MANAGER**, Production and Operations Management Society (POMS) Conferences, Different Locations in the USA **2021 - Present**

- Collaborated as a volunteer for the yearly POMS conference, taking on multiple roles, including Track Manager, Session Chair, and Registration Coordinator.
  - Managed and organized conference tracks, ensuring smooth scheduling and execution of sessions.
  - Chaired sessions, facilitating discussions and maintaining the flow of presentations.
  - Handled registration processes, assisting attendees and ensuring a seamless check-in experience.
  - Contributed to various practical tasks involved in arranging and executing the conference.

## **GRADUATE RESEARCH ASSISTANT**, Fox School of Business, Temple University, Philadelphia, PA **2021 – 2023**

- Worked on a game theory-based paper exploring a new business model for ride-hailing platforms using a waiting time differentiation pricing strategy.
- Conducted a data-driven research project involving scraping approximately 3 million tweets related to fast fashion and Earth Day.
  - Visualized data to identify trends for Earth Day and fast fashion.
  - Performed sentiment analysis, text analysis, and topic modeling on the collected data.
  - Conducted causal inference and regression analysis to draw insights and conclusions.

## **MODERN FINANCIAL INSTRUMENT EXPERT**, Modern Financial Instruments Dep, Iran Fara Bourse (IFB), Stock Exchange, Tehran, Iran **2015-2021**

- Involved as a supervisor in a major national project to launch the Islamic Treasury Bills (ITB) and develop a reliable system for handling them in Iran for the first time.
- Initially managed project data using Excel, handling over 20,000 rows and thousands of data cells, representing a value exceeding 8,000 billion Tomans (2 billion dollars).
- Gained advanced Excel programming skills and attention to detail in maintaining large datasets.
- Developed systematic thinking, stress and time management, and problem-solving skills throughout the two-year project.
- Contributed to the launch of various modern financial instruments and innovations, including licensing market makers for algorithmic market-making on bonds.
- Stayed updated on financial issues and innovations in the field.
- Served as the project coordinator, enhancing teamwork abilities and project management skills.
- Gained proficiency in Microsoft Project Management and other internal applications.

## **UNIVERSITY ENTRANCE EXAM CONSULTANT**, Mahan Institution, Tehran, Iran **2014-2015**

- In 2014, took the country-wide university entrance exam for a Master of Finance program. I achieved the highest score based solely on my exam results and the second-best score when combining my exam performance with my undergraduate GPA. As a result, I was hired to provide expert advice and consultation to individuals preparing for the same entrance exam, drawing on my success and deep understanding of the exam process.

## SKILLS

- **Data Analysis:** Python (Pandas, Numpy, Scipy, topic modeling, NLP, Selenium packages), Excel
- **Data Visualization:** Matplotlib, Seaborn
- **Statistical Analysis:** Hypothesis testing, causal analysis, probabilistic modeling, Stochastic Processing, sensitivity analyses, Dynamic Programming, Monte Carlo simulations, ANOVA, Regression Analysis
- **Programming:** Excel VBA, MATLAB, Python, R, STATA, C#, C++
- **Optimization and Game Theory:** Simplex, solver in Excel, Mathematica
- **Project Management and Office Software:** Microsoft Project Management, Microsoft Office (Word, PowerPoint)
- **Graphic Design and Photo Editing:** Photoshop, Lightroom, Canva, Capcut, Inshot
- **Personal Attributes:** Fast learner, creative, problem solver, high attention to detail, sympathetic, sense of humor, hardworking, consistent, highly sensitive person (HSP)
- **Other Skills:** Party organization, decoration, cooking for many people, painting, making decorative objects, quilling, calligraphy, furniture renovation, patina, house remodeling
- **Languages:** Farsi (native), English (intermediate), Spanish (intermediate), Turkish (basic understanding and speaking)

## PUBLICATIONS

### Dynamic Correlation and Volatility Linkage Between Stocks and Sukuk, 2019

The correlation between financial markets that identifies investment risk is regarded as one of the most important ways to be successful in investment. The prediction of the correlation structure and its use to select the best portfolio is considered as a major step in the success of risk and portfolio management. In this research the correlation between stock and sukuk has been studied.

## CERTIFICATES and awards

- **Best Student Award:** University of Tehran, September 2014
- **Letter of Appreciation for National Mega Project of ITBs:** Deputy Minister of Economic Affairs, 2017
- **Spanish DELE B2 Certification:** Instituto Cervantes, 2019
- **Project Management in Action:** Federation of Euro-Asia Stock Exchanges, 2019
- **Technical and Professional Certification:** Café Management and Cake Baking, 2020

## INTERESTS



Traveling



Cooking and Baking



Painting and Art craft



Friends and Family



Gardening



Hiking and Camping