

Seyma Kalay

Curriculum Vitae

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Residency: Work permit

Education

- 2017 - 2022 **Doctor of Philosophy in Applied Economics and Management**
Department of Economics and Management, University of Bergamo (Italy)
- 2013 - 2016 **Master of Science in Finance**
Department of Economics and Statistics, University of Siena (Italy)
- 2006 - 2010 **Bachelor Degree in Physics**
Department of Science, University of Istanbul (Turkey)

Doctoral Dissertation

- Title Access to Credit, Using Machine Learning Techniques.
- Description Implementing data manipulations, applying machine learning algorithms, and creating interactive user faces.

Master Thesis

- Title Optimal Portfolio Weights Using Markowitz Portfolio Theory.
- Description Finding the optimal stock portfolio weights, using both covariance and shrinkage covariance matrix.

Experiences

- 2023 - Curr. **Power BI Developer** - Associate Advanced Analytics Analyst,
Mozarc Medical, Milan (Italy),
Data Analysis and Visualization: Assist in collecting, cleaning, and analyzing large datasets to identify trends, patterns, and insights. Develop visually appealing dashboards and reports using Power BI to effectively communicate findings to stakeholders.
- 2023 **Assistant** - Market Research,
MPS - Evolving Marketing Research, Bergamo (Italy),
Analyzing and reporting market research outcomes, using Quantum Software.
- 2017 - 2022 **Researcher** - Statistics,
Department of Economics and Management, University of Bergamo (Italy),
Implementing data manipulations, applying machine learning technique, and creating interactive user faces.
- 2016 **Internship** - Portfolio,
Ziraat Portfolio, Istanbul (Turkey),
Observed equity and bond market, familiar with behavioral finance, created a statistical model to maximize the portfolio's return and proved the model efficiency by tracking the data.
- 2015 **Internship** - Portfolio,
Invest-AZ, Istanbul (Turkey),
To analyze the companies by looking at their income statements and balance sheets to make sure it is beneficial to invest in those companies.

2012 **Internship** - Accounted,
Varkan Group, Istanbul (Turkey),

Have been effectively responsible for recording accounting cycle and kept tracking consistent balances on both suppliers and purchasers on the company's system.

Skills and Competencies

Languages: ◦ Native in Turkish ◦ Advance in English ◦ Intermediate in Italian ◦ Beginner in Spanish

Computer: Advance: ◦ DAX ◦ Power BI/Query/Pivot ◦ R ◦ R Shiny ◦ Latex ◦ Microsoft Office

Intermediate: ◦ Html ◦ Python ◦ Tableau ◦ SQL

Beginner: ◦ VBA ◦ Java ◦ Json ◦ Snowflake

Soft Skills: ◦ Time Management ◦ Problem Solving ◦ Reporting Skills ◦ Multitasking ◦ Management Engineering

Projects

R Shiny UI ◦ MapApp: Conducting an empirical study using both supervised and unsupervised machine learning algorithms.

◦ Biblio: Reproducible bibliometric literature review.

◦ Tp3: Conducting unsupervised machine learning algorithms (Tp3: runs from console).

Viz ◦ Tableau: Conducting data visualization using Tableau Destop.

◦ Power BI: Projects that I have been working on.

HTML ◦ VizRmd: Combining Tableau, Rshiny, and HTML.

Software Packages ◦ Pomodoro: Comparison of predictive power. This package is intended to make modeling and comparing the predictive powers easier based on the data-splits and all data set.

◦ Pepe: Is intended to make descriptive statistics easier.

GitHub ◦ Repositories: Current Github repositories.

Publications ◦ CRAN Pomodoro: Predictive Power of Linear and Tree Modeling.

◦ CRAN Pepe: Data Manipulation.

Awards and Honors

2017–2022 UniBG PhD Fund,

2013–2016 DSU - Toscana,

2007–2010 Turkish Gas Foundation Scholarship,

2007–2010 Turkish Women Community Scholarship,

2006–2010 Yapi Kredi Bank Scholarship.

References

Reference letters will be provided upon request.