## Seyma Kalay

Curriculum Vitae

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	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)
2011 - 2012	Certificate in Masters of Business Administration Program
	College of Business, University of Auburn (USA)
2006 - 2010	Bachelor of Science in Astronomy and Space Science
	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	Internship - Market Research Assistant,
	MPS - Evolving Marketing Research, Bergamo (Italia),
	Analyzing market research outcomes by creating databases and descriptive statistics.
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 (please see the GitHub repositories at $\bigcirc$ ).
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.
2007–2010	Part time - Real Estate,
	Emlak Ada, Istanbul (Turkey),
	Was actively involved in the marketing and communications of the firm. Drafted contracts, scheduled meetings, handled negotiations, updated company website, collaborated with other real estate agencies, generated new solutions, and conducted research on customer needs and preferences.
	Skills and Competencies
Languages:	$\circ$ Native in Turkish $\circ$ Advance in English $\circ$ Intermediate in Italian $\circ$ Beginner in Spanish
Computer:	<u>Advance:</u> $\circ$ R $\circ$ R Shiny Application $\circ$ Latex $\circ$ Microsoft Office
	<u>Intermediate:</u> <pre>O Html </pre> Tableau  SQL  Power BI
	<u>Beginner:</u> <pre>ODAX </pre> VBA  Java  Python <pre>OQuantum</pre>
Soft Skills:	$\circ$ Time Management $\circ$ Problem Solving $\circ$ Reporting Skills $\circ$ Multitasking
	Projects
UI	• MappApp: Conducting an empirical study using both supervised and unsupervised machine learning
	algorithms.
	• Biblio: Reproducible bibliometric literature review.
	$\circ$ Tp3: Conducting unsupervised machine learning algorithms (Tp3: runs from console).
Viz	<ul> <li>Tableau: Conducting data visualization using Tableau Destop.</li> </ul>
HTML	<ul> <li>VizRmd: Combining Tableau, Rshiny, and HTML.</li> </ul>
	<ul> <li>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.</li> </ul>
	• Pepe: Is intended to make descriptive statistics easier.
	$\circ$ Oregano: Is intended to create Shiny Modules to make the visualization easier, expected release late 2023.
GitHub	<ul> <li><u>Repositories</u>: Current Github repositories.</li> </ul>
Publications	<ul> <li>CRAN Pomodoro: Predictive Power of Linear and Tree Modeling.</li> </ul>
	• CRAN Pepe: Data Manipulation.
	Awards and Honors
2017-2022	UniBG PhD Fund,
	DSU - Toscana,
	Turkish Gas Foundation Scholarship,
	Turkish Women Community Scholarship,
	Yapi Kredi Bank Scholarship.

## References

Reference letters will be provided upon request.