Research Topic (Title): Big Data, Artificial Intelligence, and Finance

No. of Openings: 1

### **Description:**

We are actively seeking enthusiastic applicants who are passionate about advancing knowledge and innovation in the field of finance to join our doctoral program. In today's rapidly evolving financial landscape, the integration of cutting-edge technologies such as big data and artificial intelligence, is reshaping the industry's landscape. Our program offers a unique opportunity for individuals with strong academic background and a keen interest in cutting-edge research to pursue advanced studies at the intersection of finance and technology. Candidates will have the chance to work closely with faculty members, engage in interdisciplinary collaborations, and contribute to research that addresses real-world challenges and opportunities in the era of digital transformation. We invite ambitious and forward-thinking individuals to join our vibrant academic community and embark on a transformative journey to advance knowledge and practices in finance through the lens of big data and artificial intelligence.

### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

**Reference letters**: The candidates should submit at least two (2) reference letters from people they know them at the academic or professional level.

**Other criteria**: Other certificates and documents such as academic or professional work (publications, newspaper articles, other research etc.).

# Studies and Student Welfare Services

#### **Personal interview**

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#### **Funding:**

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Finally, every doctoral student is entitled to apply for a grant of up to €1,000 to cover expenses related to presenting (oral presentation or poster presentation) at one or more scientific conferences.

#### **Research Advisor:**

Name/Surname: Christodoulos Louka / Michael Michaelides

**Position:** Associate Professor / Lecturer



Email: <a href="mailto:christodoulos.louca@cut.ac.cy">christodoulos.louca@cut.ac.cy</a> / <a href="mailto:michaelidis@cut.ac.cy">michael.michaelidis@cut.ac.cy</a>

Research Topic (Title): Financial Econometrics / Macro-econometrics

No. of Openings: 1

#### **Description:**

The PhD research focuses on the study and application of modern macroeconometric methods for analyzing economic fluctuations, monetary policy, and structural changes. The candidate will work with dynamic stochastic general equilibrium (DSGE) models, vector autoregression (VAR) models, and causality techniques. Special emphasis will be placed on the use of big data and machine learning to enhance forecasting and policy analysis. The research will involve empirical applications using real-world economic data and the development of new methodological approaches. The position is aimed at candidates with a strong background in economics, mathematics, and programming.

#### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

**Reference letters**: The candidates should submit at least two (2) reference letters from people they know them at the academic or professional level.

**Other criteria**: Other certificates and documents such as academic or professional work (publications, newspaper articles, other research etc.).

#### **Personal interview**

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# Studies and Services

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**Research Advisor:** 

Name/Surname: Christos Savva

**Position:** Professor

**Email:** christos.savva@cut.ac.cy

Research Topic (Title): Macroeconomics, Monetary Economics, Economic Growth

No. of Openings: 1

#### **Description:**

The selected candidate will conduct PhD research focusing on the study of macroeconomic phenomena and the structural factors influencing monetary policy and economic growth. The successful candidate will focus on topics such as:

- The interactions between monetary policy and economic development.
- The effects of macroeconomic policies on economic stability.
- The analysis of the role of institutions in supporting sustainable economic growth.
- The impact of international economic conditions on national economies.
- The research is expected to combine theoretical and empirical analysis to draw useful conclusions for economic policy formulation.

#### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

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# Studies and Student Welfare Services

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#### **Research Advisor:**

Name/Surname: Demetris Koursaros

**Position:** Associate Professor

Email: demetris.koursaros@cut.ac.cy

Research Topic (Title): Finance / Corporate Governance

No. of Openings: 1

#### **Description:**

Despite substantial media coverage and academic discussion, the effects of board diversity in corporate outcomes and the explanations behind it is an ambiguous terrain. The relation between board composition, corporate misconduct and board turnover is an area that warrants further investigation. The project aims to examine whether board diversity deters misconduct and to what extent the management of a firm is penalized following misconduct incidents. Further, the question of CEO turnover and substitution will be explored in the light of the presence of board monitoring committees and how the labour market assesses such incidents of turnover.

#### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

**Reference letters**: The candidates should submit at least two (2) reference letters from people they know them at the academic or professional level.

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#### **Personal interview**

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# Studies and Services

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**Research Advisor:** 

Name/Surname: Elena Kalotychou

**Position:** Associate Professor

Email: eleni.kalotychou@cut.ac.cy

Research Topic (Title): Matrix Methods for Large-Scale Statistical Estimation

No. of Openings: 1

#### **Description:**

The aim of this PhD is to develop efficient and scalable computational strategies for large-scale linear model estimation problems within the context of statistical data science. The research will focus on designing matrix-based algorithms that address challenges arising from high-dimensional and structured data, emphasizing numerical stability and computational efficiency. The project will explore innovative approaches to improve the speed and accuracy of estimation procedures, integrating theoretical developments with high-performance computational methods applicable to modern statistical data science problems, including large-scale modeling, prediction, and inference.

### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Statistics or Mathematics or related areas, including Computer Science, Pure and Applied Sciences, Finance, Economics, or Business Administration. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

**Reference letters**: The candidates should submit at least two (2) reference letters from people they know them at the academic or professional level.

**Other criteria**: Other certificates and documents such as academic or professional work (publications, newspaper articles, other research etc.).

#### Personal interview



# Studies and Student Welfare Services

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**Research Advisor:** 

Name/Surname: Erricos Kontoghiorghes

**Position:** Professor

Email: erricos.k@cut.ac.cy

Research Topic (Title): Statistical Data Science and Text Mining

No. of Openings: 1

#### **Description:**

The aim of this PhD is to develop statistical and computational methodologies for the analysis of complex, high-dimensional, and unstructured data, with a particular focus on text mining, functional data, and perpetual or imprecise information. Modern data sources, including continuously recorded measurements, online content, publications, images, and aggregated opinions, create challenges in dimensionality, heterogeneity, and real-time updating of estimates. The project will explore matrix-based algorithms for large-scale estimation, sparse and low-rank approximations, dimension reduction, and efficient optimization, while investigating Hilbert space embeddings as a unifying framework to represent diverse data types. Methodological developments will be combined with scalable computational strategies, including parallelization, coresets, and high-performance implementations, to support robust inference, feature extraction, and clustering in high-dimensional settings. The research will also address preprocessing effects, integration of heterogeneous sources, and the creation of reproducible opensource tools, aiming to provide statistically sound and computationally efficient solutions for modern data science applications.

#### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Statistics or Mathematics or related areas, including Computer Science, Pure and Applied Sciences, Finance, Economics, or Business Administration. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

# Studies and Services

Reference letters: The candidates should submit at least two (2) reference letters from people they know them at the academic or professional level.

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#### **Personal interview**

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**Research Advisor:** 

Name/Surname: Erricos Kontoghiorghes

**Position:** Professor

Email: erricos.k@cut.ac.cy

Research Topic (Title): Finance / Dividend Policy

No. of Openings: 1

#### **Description:**

The announcement of significant dividend changes is a pivotal corporate event with profound implications for equity prices. Existing research has demonstrated a correlation between dividend policy and various corporate factors, including credit risk, leverage, systematic risk, corporate governance, and others. However, one enduring puzzle in the dividend policy literature is the persistent abnormal returns earned by firms (up to 36 months) following dividend increases (that is, prior studies show that there is a fairly significant long-run price drift after a dividend increase). While various explanations have been proposed, the underlying causes remain a subject of ongoing debate.

This PhD project invites highly motivated candidates to delve into this intriguing phenomenon and offer novel insights. We seek individuals who are passionate about exploring investor behavior and its potential role in driving the dividend drift. Potential research avenues include (but not restricted):

- Behavioral biases: Investigating how cognitive biases, such as overconfidence or anchoring, influence investor perceptions of dividend increases and subsequent investment decisions.
- **Information asymmetries:** Examining whether dividend increases signal private information to investors, leading to differential reactions and persistent abnormal returns.
- **Investor heterogeneity:** Analyzing how differences in investor characteristics (e.g., institutional vs. retail investors, domestic vs. foreign investors) impact their responses to dividend announcements.

By addressing these questions, the successful candidate will contribute to a deeper understanding of the dividend drift puzzle and provide valuable insights for both academics and practitioners.

#### **Required Qualifications:**

Academic excellence: Candidates must hold a recognized University Degree and/or a

Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

**Innovative research proposal**: The candidates should submit a clear research idea or question; what they propose to do. Further, they should explain why their proposal is important and identify the additional knowledge they expect to contribute to the relevant literature.

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#### **Personal interview**

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**Research Advisor:** 

Name/Surname: Neophytos Lambertides

**Position:** Professor

Email: n.lambertides@cut.ac.cy

Research Topic (Title): Finance and Accounting

No. of Openings: 1

#### **Description:**

Algorithmic trading is defined as computer-assisted, fast, low latency trading activity and over the recent years it has come to dominate stock markets in the United states and globally. Algorithmic traders rapidly incorporate public information into prices, i.e. they enhance informational efficiency. On the other hand, as their trades account for more than 50% of the daily trading volume, ATs can significantly affect other investors' trades and in particular they discourage the acquisition of new information.

Based on the literature on the effects of algorithmic trading on secondary financial markets, we aim to investigate the real effects of microstructure changes in financial markets, i.e. whether and how algorithmic trading affects firms' environmental reporting practices and managerial decisions on environmental investments.

We seek individuals with who are interested in contributing empirically in the market-based accounting research, by evaluating the impact of technological innovations in trading on capital markets. Potential research avenues include (but not restricted):

**Reporting Practices**: Investigating whether and how algorithmic trading influences managers' reporting choices on environmental issues.

**Environmental Performance**: Examining whether algorithmic trading is associated with changes environmental investments and environmental policies of firms.

#### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

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**Programming**: Prior knowledge of programming is desirable.

#### **Personal interview**

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#### **Research Advisor:**

Name/Surname: Neophytos Lambertides / Anastasia Kopita

**Position:** Professor / Assistant Professor



Email: n.lambertides@cut.ac.cy / anastasia.kopita@cut.ac.cy

Research Topic (Title): FinTech and Green Finance

No. of Openings: 1

#### **Description:**

This vacancy invites ambitious candidates to explore how financial technology innovations can drive sustainable finance and environmental goals. The selected applicant will investigate the intersections of digital finance, sustainability, and regulatory frameworks, contributing to a greener economy.

#### **Required Qualifications:**

**Academic excellence**: Candidates must hold a recognized University Degree and/or a Master's Degree in Finance or Economics or Business Administration or Computer Science or Pure and Applied Sciences. The successful candidates must have very good or excellent grades in the previous programs they have attended and have sufficient knowledge of the English language\*.

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#### **Research Advisor:**

Name/Surname: Panayiotis Andreou / Neophytos Lambertides

**Position:** Associate Professor / Professor

Email: <a href="mailto:panayiotis.andreou@cut.ac.cy">panayiotis.andreou@cut.ac.cy</a> / <a href="mailto:n.lambertides@cut.ac.cy">n.lambertides@cut.ac.cy</a>