



## DARIE Flavius-Cosmin



**CURRENT POSITION:** Assistant Professor; Member of Management Team Bachelor Programme, English stream; Member of Quality Evaluation and Assurance Committee

**AFFILIATION/DEPARTMENT:** Department of Business Administration in foreign languages (UNESCO chair)

**ORCID RESEARCHER ID:** <https://orcid.org/0009-0002-5529-3202>

**URL FOR PERSONAL WEBSITE:**

**LINKEDIN PROFILE:** <https://www.linkedin.com/in/flavius-darie>

**EMAIL:**

### PROFILE

Flavius-Cosmin Darie is an Assistant Professor at the Bucharest University of Economic Studies, currently specializing in teaching "Quality and Innovation in Business" and "Scientific Research using Machine Learning Tools." His research spans financial and energy markets, focusing on the interdependence between them, as well as broader issues such as geopolitical conflicts, geoeconomic instability, and the challenges posed by a turbulent business environment. He also investigates strategic rivalry, along with data and algorithmic bias in large language models (LLMs), and vulnerabilities in AI systems related to efficiency, cybersecurity, and ethics.



## EDUCATION

**Habilitation** -

**Post-Doc** -

**PhD (Doctorate)** **2023** - Ph.D in Economics, Lucian Blaga University of Sibiu, Romania. Doctoral Thesis - "Modelling and Forecasting Sterling Pound (GBP) and Euro (EUR) Exchange Rates Volatility Using ARCH/GARCH Models in the Brexit Context"

**Master** **2017** - MSC International Finance, London South Bank University, United Kingdom

**Bachelor** **2014** - BA (Hons) Business Administration, London South Bank University, United Kingdom

## PROFESSIONAL TRAINING

**2021** - Expert Certification in Accessing European Structural and Cohesion Funds - Received from the Ministry of Labor and Social Protection for expertise in implementing and managing large-scale projects.

**2010** - ECDL Certificate - Received from ECDL Romania

## ACADEMIC MANAGEMENT

**2024 – Present** - Assistant Professor, Faculty of Business Administration in Foreign Languages, Bucharest University of Economic Studies, Romania

I undertake administrative responsibilities to support the effective functioning of academic programs, including the preparation of accreditation documentation, the development of statistical reports on students' research activities, and the creation of promotional materials for the faculty and its courses.

## ACADEMIC EXPERIENCE

**2024 – Present** - Assistant Professor, Faculty of Business Administration in Foreign Languages, Bucharest University of Economic Studies, Romania

Courses taught:

- Quality and Innovation in Business
- Scientific Research using Machine Learning Tools

## RESEARCH PROFILE

I am a researcher specializing in financial and energy markets, exchange rate volatility, and AI-driven economic modeling. My doctoral work focuses on currency dynamics, market interdependence, and



data bias in LLMs. As an academic and practitioner, I integrate machine learning and Python into my research and teaching, with publications on geopolitical shifts, strategic rivalry, geo-economic instability, and renewable energy.

## LIST OF PUBLICATIONS

### **List of articles published in peer reviewed journals:**

1. Miron, D., Brandabur, R.E., Maita, D.N., Darie, F.C., Goldbach, D., Lixandru, I.D., „The Influence of Contexts in the Process of Choosing a University Product”, Amfiteatrul Economic, Vol. 26, Issue 66, pp. 648-665, 2024, DOI: <https://doi.org/10.24818/EA/2024/66/648>,  
<https://www.amfiteatrueconomic.ro/ArticolEN.aspx?CodArticol=3305>.
2. Strat, V.A., Trica, C.L., Teodor, C., Ignat, R., Dracea, R.M., Petrescu, I.E., and Darie, F.C., „Different Scenarios for the Development of the Circular Economy Based on the Deposit System The Case of Romania”, ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, Vol. 58, Issue 1, pp. 120-137, 2024, WOS:001197401000018, DOI: 10.24818/18423264/58.1.24.08,  
[https://ecocyb.ase.ro/nr2024\\_1/8\\_VasileStrat\\_CarmenLenutaTrica.pdf](https://ecocyb.ase.ro/nr2024_1/8_VasileStrat_CarmenLenutaTrica.pdf).
3. Darie, F.C., „Impact of Leadership Styles on Organizational Performance and Employee Retention – Case Study of Germany, Switzerland and Austria”, Review of International Comparative Management, 25(2), pp. 352-362, 2024, <https://www.rmc.ase.ro/no25vol2/14.pdf>, DOI: 10.24818/RMCI.2024.2.352.
4. Darie, F., “Foreign currency loan conversion and currency mismatches in Romania”, Journal of Smart Economic Growth – Vol 7, No. 2: 7-2-2022, <https://jseg.ro/index.php/jseg/article/view/195>.
5. Darie, F. and Tache, I., “Managing Exchange Rate Volatility during Political Crises”, Bulletin of the Transilvania University of Brasov, Series V Economic Sciences, Vol. 15(64) No. 1, 2022, <https://doi.org/10.31926/but.es.2022.15.64.1.9>.
6. Darie, F. and Tache, I., “The Volatility of the Dow Jones Pharmaceuticals and Biotechnology Index in the context of the Coronavirus crisis”, The Journal of Corporate Governance, Insurance, and Risk Management (JCGIRM) – Volume 7, Series 2, 2020,  
<https://www.um.edu.mt/library/oar/handle/123456789/66511>.
7. Tache, I. and Darie, F., “The impact of the trade-war between the USA and China on the volatility of the Chinese yuan – an analysis conducted using the Garch (1, 1) model” Journal of Smart Economic Growth – Vol 4 No 2: 4-2-2019 <https://jseg.ro/index.php/jseg/article/view/79>
8. Tache, I. and Darie, F., “Sterling Pound (GBP) Exchange-Rate Volatility in the Brexit Context using the EGARCH Model – A Comparison between the Effective GBP Volatility and the EGARCH Estimation for the Period June 2016 – September 2019”, Bulletin of Transilvania University of Brasov, Series V Economic Sciences, Vol. 12(61) No. 2, 2019, <https://doi.org/10.31926/but.es.2019.12.61.2.13>

### **List of papers published in conference proceedings:**



1. DARIE, F. C., PROSCANU, C., ZEMELEAGĂ, C. G., & PRINZ, E. (2024). Evaluating the Impact of Demographic Shifts: A Comparative Analysis of Economic and Social Consequences in G7 and BRICS Nations. In Proceedings of the International Conference on Economics and Social Sciences. The International Conference on Economics and Social Sciences. Editura ASE. <https://doi.org/10.24818/icess/2024/021>
2. Darie, F.C., Miron, A.D. and Ciurea, I.C. (2024) Geoeconomic Dynamics in a New Economic Global Order from West to East. Proceedings of the International Conference on Business Excellence, The Bucharest University of Economic Studies, Vol. 18 (Issue 1), pp. 469-481. <https://doi.org/10.2478/picbe-2024-0041>
3. Darie, F.C., "The Effect of Renewable Energy Consumption in Romania", BASIQ International Conference, 2023, <https://conference.ase.ro/papers/2023/23008.pdf>.
4. Darie, F.C., and Miron, A.D., "Bitcoin, Gold and Crude Oil versus the US Dollar – A GARCH Volatility Analysis", Proceedings of the International Conference on Business Excellence, 2023, WOS:001033505100005, <https://sciendo.com/article/10.2478/picbe-2023-0027>.
5. Darie, F. and Tache, I., 2021. The Economic Impact of the US Military Withdrawal and Taliban Takeover in Afghanistan. 16th International Scientific Conference DEFENSE RESOURCES MANAGEMENT IN THE 21st CENTURY, October 28-29, Brasov, Fully Online.
6. Tache, I. and Darie, F., 2021. Examining the Pound (GBP) Volatility in the Brexit Context Using the E-GARCH Model. 91st International Atlantic Economic Conference (IAES 2021), May 19-22, Fully Online.
7. Darie, F., 2020. Foreign Currency Loan Conversions and Currency Mismatches in Romania. 27th International Economic Conference of Sibiu (IECS 2020), October 30, Fully Online.

**List of books & book chapters:**

1. Strat, V.A., Radev, D., Pele, D.T., Chinie, C., Grosu, F., Darie, F.C., Mare, C., Damian, V., Coita, I. (2024) – „FINTECH REPORT ROMANIA & BULGARIA”, Editura ASE, 76, ISBN 978-606-34-0517-4
2. Darie, F.C., Miron, A.D. (2024). Worrisome Evolutions Versus Involutions at the Level of Geopolitical and Geoeconomic Balances. Case Study—Russian Economy. In: Dima, A.M., Vâlcea, S. (eds) Reshaping Power Dynamics Between Sustainable Growth and Technical Disruption. ICESS 2023. Springer Proceedings in Business and Economics. Springer, Cham. [https://doi.org/10.1007/978-3-031-58967-6\\_6](https://doi.org/10.1007/978-3-031-58967-6_6)

**SCIENTIFIC COMMITTEES OF ACADEMIC JOURNALS / CONFERENCES, REVIEW**

Reviewer for international conferences: International Conference on Business Excellence

**PROJECTS**

**July 2024 – present – "JobKG – A Knowledge Graph of the Romanian Job Market based on Natural Language Processing", CF 178/31.07.2023 as postdoctoral researcher.**



## GRANTS AND HONORS

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**Magna Cum Laude** – Awarded by Lucian Blaga University of Sibiu (2022) for excellence in doctoral studies.

**Best Dissertation** – Awarded by London South Bank University (2017) for outstanding achievement.

## LANGUAGES

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**English** – Advanced

**French** – Intermediate

## SKILLS

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**Research Skills** – Conducting market research to understand consumer behavior or studying economic trends for a research paper.

**Data Analysis** – Using statistical software to analyze data and predict future trends.

**Financial Analysis** – Evaluating a company's profitability and risk before recommending investments.

**Quantitative Finance** – Using quantitative models to price derivatives or manage portfolio risks.

**Stakeholder Management** – Coordinating between clients, team members, and investors to meet a project deadline.

**IT Skills** – Coding in Python, C++, PHP to automate

**Communication** – Effectively conveying ideas, whether in writing, speaking, or visual presentations.