Vasilios Plakandaras

Associate Professor
Department of Economics
Democritus University of Thrace
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Google Scholar: https://scholar.google.com/citations?user=OADnx5gAAAAJ
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November 2024

AREAS OF INTEREST

- Complex and Non-linear Dynamics
- Machine Learning
- Applied Econometrics
- Forecasting

PUBLICATIONS

43 peer reviewed journals
3 book chapters
15 conference participations
1367 citations (Google Scholar) h18, **851** citations (Scopus) h14

1. Foglia M., Plakandaras V., Gupta R. And Ji Q. (2024) Long-Span Multi-Layer Spillovers between Moments of Advanced Equity Markets: The Role of Climate Risks, Research in International Business and Finance, accepted for publication.
2. Bagtzoglou E.M., Anagnostou E., Behbahani M., Kazana V., Khadim F.K. and Plakandaras V. (2024) Citizen Science and Public Perceptions under A Changing Climate: an Empirical Study in The Upper Blue Nile, Ethiopia, Annals of Social Science and management Studies, 10(3), 1-5
3. Plakandaras V., Pragidis I. and Karypidis P. (2024) Deciphering the U.S. metropolitan house price dynamics, Real Estate Economics, 52, 434-485 (ABS: 3, IF:2.20, Scimago: Q1)
4. Plakandaras V., Gupta R., Karmakar S. and Wohar M. (2023) Are real interest rates a monetary phenomenon? Evidence from 700 years of data, Research in International Business and Finance, 66, 102010. (ABS: 2, IF:6.50, Scimago: Q1)
5. Gupta R., Qiang J., Pierdzioch C. and Plakandaras V. (2023) Forecasting the conditional distribution of realized volatility of oil price returns: The role of skewness over 1859 to 2023, Finance Research Letters, 58, 104501 (ABS: 2, IF:10.40, Scimago: Q1)
6. Yousaf I., Plakandaras V., Bouri E. and Rangan G. (2023) Hedge and safe-haven

properties of FAANA against gold, US Treasury, bitcoin, and US Dollar/CHF during the pandemic period, The North American Journal of Economics and Finance, 64, 101844. (ABS: 2, IF:3.14, Scimago: Q2)

7. Plakandaras V., and Ji Q. (2022) Intrinsic decompositions in gold forecasting, Journal of Commodity Markets, 28, 100248. (ABS: 3, IF:3,32, Scimago: Q2)
8. Plakandaras V., Gogas P., Papadimitriou T. and Tsamardinos, I (2022) Credit Card Fraud Detection with Automated Machine Learning Systems, Applied Artificial Intelligence, 36(1), 1585-1599. (IF:1.58, Scimago: Q3)
9. Apergis N., Plakandaras V. and Pragidis I. (2022) Industry momentum and reversals in stock markets, International Journal of Finance and Economics. 27(3),3093-3138. (ABS: 3, IF:3.07, Scimago: Q2)
10. Floros F., Pistikou V. and Plakandaras V. (2022), Geopolitical Risk as a Determinant of Renewable Energy Investments, Energies, 15(4), 1498. (IF: 3.00, Scimago: Q2).
11. Plakandaras, V. Gupta, R., Balcilar, M. and Ji Qiang (2022) Evolving United States stock market volatility: The role of conventional and unconventional monetary policies, North American Journal of Economics and Finance, 60, 101666. (IF: 2.77, Scimago: Q2).
12. Plakandaras, V., Gogas, P. and Papadimitriou, T. (2021) Gold Against the Machine. Computational Economics. 57, 5-28. (ABS: 1 , IF: 1.88, Scimago: Q2)
13. Plakandaras V. Bouri E and Gupta R. (2021) Forecasting Bitcoin Returns: Is there a Role for the U.S. – China Trade War? Journal of Risk, 23 (3), 75-93. (ABS: 2, IF: 0.63, Scimago: Q3)
14. Nyamela Y., Gupta R. and Plakandaras V. (2020) Frequency-Dependent Real-Time Effects of Uncertainty in the United States Evidence from Daily Data, Applied Economics Letters, 27(19), 1562-1566. (ABS: 1, IF: 1.16, Scimago: Q3)
15. Plakandaras V. Gupta R., Katrakilidis K. and Wohar M. (2020) Time-varying role of macroeconomic shocks on house prices in the US and UK: evidence from over 150 years of data, Empirical Economics, 58, 2249-2285. (ABS: 2, IF: 1.71, Scimago: Q1)
16. Plakandaras, V.; Gogas, P.; Papadimitriou, T.; Doumpa, E.; Stefanidou, M. (2020) Forecasting Credit Ratings of EU Banks. International Journal of Financial Studies, 8, 49-63. (ABS: , IF: , Scimago: Q4)
17. Tsinztos P. and Plakandaras V. (2020) The judiciary system as a productivity factor; the European experience, Economics Letters, 192, 109-257. (ABS: 3, IF: 2.10, Scimago: Q1)
18. Plakandaras V., Tiwari A., Gupta R. and Ji Q. (2020) Spillover of sentiment in the European Union: Evidence from time and frequency domains, International Review of Economics and Finance, 68, 150-130. (ABS: 2, IF: 2.52, Scimago:Q2)
19. Plakandaras V., Gogas P., Papadimitriou T. and Gupta R. (2019) A re-evaluation of the term spread as a leading indicator, International Review of Economics and Finance, 64, 476-492. (ABS: 2, IF: 2.52, Scimago: Q2)
20. Gupta R., Lau C., Plakandaras V. and Wong W. (2019) The role of housing sentiment in forecasting U.S. home sales growth: evidence from a Bayesian compressed vector autoregressive model, Economic Research - Ekonomska Istraživanja, 32(1), 2554–2567. (IF: 3.03, Scimago: Q2)
21. Plakandaras V., Gogas P. and Papadimitriou T. (2019) Forecasting transportation demand for the U.S. market, Transportation Research Part A, 126, 195–214. (ABS: 3, IF: 5.59, Scimago: Q1)
22. Plakandaras V., Gupta R. and Wohar M.E. (2019) Persistence of economic uncertainty: a comprehensive analysis, Applied Economics,51(4), 4477–4498. (ABS: 2, IF: 1.84, Scimago: Q2)
23. Plakandaras V., Gupta R., Gil-Alana L. and Wohar M.E. (2019) Are BRICS Exchange Rates Chaotic? Applied Economics Letters, 26 (3), 1104–1110. (ABS: 1, IF: 1.16, Scimago: Q3)

24. Gupta R. and Plakandaras V. (2019) Efficiency in BRICS Currency Markets Using Long-Spans of Data: Evidence from Model-Free Tests of Directional Predictability, Journal of Economics and Behavioral Studies, 11 (1), 152-165.
25. Plakandaras V., Gogas P. and Papadimitriou T. (2019) The Effects of Geopolitical Uncertainty in Forecasting Financial Markets: A Machine Learning Approach, Algorithms, 12, 1. (Scimago: Q3)
26. Plakandaras V., Gupta R. and Wong W. (2019) Point and density forecasts of oil returns: The role of geopolitical risks, Resources Policy, 62, 580–587. (ABS: 2, IF: 5.63, Scimago: Q1)
27. Plakandaras V., Gupta R. and Wohar M.E. (2018) UK Macroeconomic Volatility: Historical Evidence Over Seven Centuries, Journal of Policy Modeling, 40(4), 767-789. (ABS: 2, IF: 2.64, Scimago: Q1)
28. Dimitriadou A., Gogas P., Papadimitriou T. and Plakandaras V. (2018) Oil Market Efficiency under a Machine Learning Perspective, Forecasting, 1, 157–168.
29. Plakandaras V., Gogas P. and Papadimitriou T. (2019) A re-evaluation of the Feldstein-Horioka puzzle in the Eurozone, Journal of Risk & Control, 61(1), 19-35.
30. Antonakakis N., Gabauer D., Gupta R. and Plakandaras V. (2018) Dynamic Connectedness of Uncertainty across Developed Economies: A Time-Varying Approach, Economics Letters, 166, 63-75. (ABS: 3, IF: 2.10, Scimago: Q1)
31. Pragidis I., Tsintzos P. and Plakandaras V. (2018) Asymmetric effects of government spending shocks during the financial cycle, Economic Modelling, 68, 372-387. (ABS: 2, IF: 3.13, Scimago: Q2)
32. Plakandaras V., Gupta R., Gogas P. and T. Papadimitriou (2018) U.K. Macroeconomic Uncertainty, Growth and Inflation in the Eurozone: A Causal Approach, Applied Economics Letters, 25(14), 1029-1033. (ABS: 1, IF: 1.16, Scimago: Q3)
33. Plakandaras V., Cunado J., Gupta R. and Wohar M.E. (2017) Do Leading Indicators Forecast U.S. Recessions? A Nonlinear Re-evaluation Using Historical Data, International Finance, 20(3), 289-316. (IF: 1.02, Scimago: Q2)
34. Plakandaras V., Papadimitriou T., Gogas P. and Gupta R. (2017) The Informational Content of the Term-Spread in Forecasting the U.S. Inflation Rate: A Nonlinear Approach, Journal of Forecasting, 36(2), 109-121. (ABS: 2, IF: 2.31, Scimago:Q2)
35. Plakandaras V., Gupta R. and Wohar M.E. (2017) The depreciation of the pound post-Brexit: Could it have been predicted?, Finance Research Letters, 21, 206-213. (ABS: 2, IF: 5.60, Scimago:Q1)
36. Papadimitriou T., Gogas P. and Plakandaras V. (2016) Testing Exchange Rate models in a Small Open Economy: an SVR approach, Bulletin of Economic Research, 3(2), 6-29. (ABS: 2, IF:0.62, Scimago:Q3)
37. Plakandaras V., Papadimitriou T. and Gogas P. (2015) Forecasting monthly and daily exchange rates with machine learning methodologies, Journal of Forecasting, 34 (7), 560-573. (ABS: 2, IF: 2.31, Scimago:Q2)
38. Plakandaras V., Papadimitriou T., Gogas P. and Diamantaras K. (2015) Market Sentiment and Exchange Rate Directional Forecasting, Algorithmic Finance, 4 (1-2), 69-79. (IF:0.71, Scimago:Q3)
39. Plakandaras V., Gupta R., Gogas P. and Papadimiriou T. (2015) Forecasting the U.S. Real House Price Index, Economic Modelling, 45, 259-267. (ABS: 2, IF: 3.13, Scimago: Q2)
40. Plakandaras V., Gupta R., Gogas P. and Papadimitriou T. (2015) U.S. inflation dynamics on long range data, Applied Economics, 47 (36), 3874-3890. (ABS: 2, IF: 1.84, Scimago: Q2)
41. Pragidis I., Gogas P., Plakandaras V. and T. Papadimitriou (2015) Fiscal shocks and asymmetric effects: a comparative analysis, Journal of Economic Asymmetries, 12(1), 23-32. (Scimago: Q2)
42. Gogas P., Plakandaras V. and Papadimitriou T. (2014) Public Debt and Private

Consumption in OECD Countries, Journal of Economic Asymmetries, 11, 1-7. (Scimago:Q2)

43. T. Papadimitriou, P. Gogas, V. Plakandaras and J. C. Mourmouris (2013), Forecasting the Insolvency of US Banks with local based variable selection and SVM, International Journal of Computational Economics and Econometrics, 3(1/2), 83-90. (Scimago:Q3)

BOOK CHAPTERS

1. Vasilios Plakandaras (2023) Big data and economics: Teaching an old dog new tricks?, Reference Module in Social Sciences, Encyclopedia of Monetary Policy, Financial Markets and Banking, Elsevier.
2. Ioannis Pragidis, Eirini Karapistoli and Vasilios Plakandaras, (2016) Predicting Euro Stock Markets, in Collective Online Platforms for Financial and Environmental Awareness, Springer International Publishing AG.
3. Vasilios Plakandaras, Theophilos Papadimitriou and Periklis Gogas (2015) Directional forecasting in financial time series using support vector machines: the USD/Euro exchange rate, in Computational data analysis techniques in economics and finance, Doumpos, M., Zopounidis, C., Gaganis, C., pp. 11-26, pp. 125-139. Nova Science Publishers, Inc.

CONFERENCES – PRESENTATIONS

1. "Unveiling Farmers' Perceptions: A Citizen Science and Machine Learning approach to exploring drivers in the adequacy and fairness of water systems", with V. Kazana, E. Anagnostou, A. Bagtzoglou and F.K. Khadim, Sustain Istanbul 2024, Istanbul, Turkey, October 2024.
2. "Deciphering metropolitan house price dynamics in the U.S." with Paris Karypidis and Ioannis Pragidis, 7th International Conference on Applied Theory, Macro and Empirical Finance, Thessaloniki, Greece, April 2023.
3. "Harnessing Heterogeneity in Household Energy Conservation Planning" with Paris Karypidis and Ioannis Pragidis, 7th International Conference on Applied Theory, Macro and Empirical Finance, Thessaloniki, Greece, April 2023.
4. "Forecasting transportation demand for the U.S. market", 16th Conference of the International Federation of Classification Societies, Thessaloniki, Greece, August, 2019.
5. "The term premium as a leading macroeconomic indicator", Vasilios Plakandaras, Theophilos Papadimitriou, Periklis Gogas and Rangan Gupta, 2nd National Symposium of the Department of Economics, Democritus University of Thrace, Komotini, Greece, May, 2016.
6. "Recessions after uncertainty or vice versa?" with Ioannis Pragidis, 1st International Workshop on the Internet for Financial Collective Awareness and Intelligence, Firenze, Italy, September, 2016.
7. "Forecasting transportation demand in the domestic U.S. market", Vasilios Plakandaras, Theophilos Papadimitriou and Periklis Gogas, 1st International Transport Conference and 15th Special Conference of the Hellenic Operational Research Society, Alexandroupoli, Greece, October, 2015.
8. "US inflation dynamics on long range data", Vasilios Plakandaras, Rangan Gupta, Periklis Gogas and Theophilos Papadimitriou, International Conference on Business and Economics, Athens, Greece, February, 2015.
9. "Monetary exchange rate models in a small open economy with alternative inflation expectations", Periklis Gogas, Theophilos Papadimitriou, Vasilios Plakandaras and John Mourmouris, IAES 79th International Atlantic Economic Conference, Milan, Italy, March 2015.
10. "Forecasting daily and monthly exchange rates with machine learning techniques", Vasilios

Plakandaras, Theophilos Papadimitriou and Periklis Gogas, 1st National Symposium of the Department of Economics, Democritus University of Thrace, Komotini, Greece, April, 2014.

11. "Forecasting daily and monthly exchange rates with machine learning techniques", Periklis Gogas, Theophilos Papadimitriou, Vasilios Plakandaras, IAES 77th International Atlantic Economic Conference, Philadelphia, US, October, 2013.
12. "Common Stochastic trends and the Ricardian Equivalence in the OECD", Periklis Gogas, Theophilos Papadimitriou and Vasilios Plakandaras, 76th International Economic Conference, Vienna, Austria, April, 2013.
13. "Forecasting USD/EUR daily and monthly exchange rates with machine learning techniques", Periklis Gogas, Theophilos Papadimitriou and Vasilios Plakandaras, 76th International Economic Conference, Vienna, Austria, April, 2013.
14. Predicting the insolvency of U.S. banks using Support Vector Machines", Periklis Gogas, Theophilos Papadimitriou, Ioannis Mourmouris and Vasilios Plakandaras, 76th International Economic Conference, Vienna, Austria, April, 2013.
15. "Directional forecasting in financial time series using support vector machines: The USD/Euro exchange rate", V. Plakandaras, T. Papadimitriou, P. Gogas, 2nd National Conference of the Financial Engineering and Banking Society, Athens, Greece, December 2011.

EDUCATION

- Ph.D. 2011- 2015, Department of Economics, Democritus University of Thrace, Komotini, Greece. Areas of specialization: Financial and International Economics. Dissertation title: "Forecasting financial time series with machine learning methodologies".
- Master's degree, 2011, with distinction, Department of Economics, Democritus University of Thrace, Komotini, Greece. Thesis title: "Forecasting exchange rates with machine learning techniques". 2nd among 34 graduates.
- Bachelor's degree in Economics 2009, Department of Economics, Democritus University of Thrace, Komotini, Greece. 8th among 134 graduates.

EABCN TRAINING SCHOOLS

- What's New in Mixed Frequency Data (MIDAS), with Applications to Machine Learning and Big Data, 26-28 Sep 2022.
- Recent Developments in Forecasting, 1 – 8 Jun 2021.
- Modern Macro, Money, and International Finance, 7-23 June 2021.
- Subjective Inflation Expectations: Measurement, Effects, and Policy Implications, 20-22 June 2021.

PROFESSIONAL AFFILIATIONS

- Euro Area Business Cycle Network – member

SCHOLARSHIPS AND AWARDS

- 2009-2011, Graduate Scholarship for Exceptional Performance, Department of Economics, Democritus University of Thrace.

RESEARCH PROGRAMS – GRANTS

- Researcher in the Thalis research grant 2011-2015 (MIS 280929) financed by the European Union under the general title "Study and Forecasting of economic time series with machine learning techniques".

- Researcher in the Horizon 2020 program "PROFIT - Promoting Financial Awareness and Stability" (Grant No 687895) from January 2016 to June 2017.
- Researcher in the Horizon 2020 program "CUTLER - Coastal urban development through the lenses of Resiliency" (Grant No 770469) from January 2018 to December 2020

WORK EXPERIENCE

- 2024-present: Associate Professor of Applied Econometrics, Democritus University of Thrace
- 2019-2024: Assistant Professor of Applied Econometrics, Democritus University of Thrace
- 2018-2020: Researcher in CUTLER under HORIZON 2020 with main research field in financial and macroeconomic forecasting.
- 2016-2019: Visiting Research Fellow, Department of Economics, Democritus University of Thrace.
- 2011-2015: Researcher under the THALES project with main research field in financial and macroeconomic forecasting.

TEACHING EXPERIENCE

<u>Graduate level</u>

2016-2018

- Forecasting the Hydrocarbon Markets, MSc in Hydrocarbon Exploration and Exploitation, (a course in forecasting economic time series with main focus on the oil market), Aristotle University of Thessaloniki, Greece
- Measuring Oil Markets, MSc in Hydrocarbon Exploration and Exploitation, (a course in understanding the structure of the oil market), Aristotle University of Thessaloniki, Greece.

2020- 2021

- Market Research, Master in Business Administration, Department of Economics, Democritus University of Thrace.

2023- 2024

- Research Formulation, MSc in public administration and digital governance, Open University of Greece.

2021-present

- Big Data analysis, Master in Financial Technology (Fintech), Department of Economics, Democritus University of Thrace.
- Artificial Intelligence in Finance, Master in Business Administration (MBA), Department of Economics, Democritus University of Thrace.

<u>Undergraduate level</u>

2012-2016

- Informatics II (a course in applied econometric software), Department of Economics, Democritus University of Thrace.

2017 - present

- Econometrics I and II, Department of Economics, Democritus University of Thrace.

2018 - present

- Statistics I and II, Department of Economics, Democritus University of Thrace.

2024 - present

- Quantitative methods, Program in public administration, Open University of Greece.

QUALIFICATIONS

- Languages: Greek (native), English (fluent), German (Advanced), Italian (operational level).
- Advanced user of statistical and mathematical software as Matlab, R, SPSS, Eviews, Gretl, Python and STATA.

REFEREE SERVICE

Applied Economics, International Review of Financial Analysis, Risks, International Journal of Strategic Property Management, IEEE Access, Physica A, Journal of Risk and Financial Management, Energy Economics, Economic Change and Restructuring, Sustainability, Structural Change and Economic Dynamics, Energies, Borsa Istanbul Review, Finance Research Letters, Expert Systems with Applications, Resources Policy, Entropy, Empirical Economics, Applied Sciences, International Journal of Finance and Economics, International Review of Financial Analysis.

ORGANIZATIONAL ACTIVITIES

IFIN-2016 (1st International Workshop on the Internet for Financial Collective Awareness and Intelligence) organizing committee, Firenze, Italy, September 2016.