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Education

- 1996 Ph.D., Economics, Wayne State University, Detroit, Michigan, US.
Thesis: Efficient and Near Efficient Unit Root Tests in Models with Structural Change.
- 1991 MA, Economics, Cleveland State University, Cleveland, Ohio, US.
- 1990 MA, Economics, Cukurova University, Adana, Turkey.
Thesis: Consumption Functions and Consumption Behaviors.
- 1986 BA, Tourism Management, Dokuz Eylul University, Izmir, Turkey.

Areas of specialization

Predictive Analytics, Forecasting, Econometrics, Nonparametric Statistics, Macroeconomics, Monetary Economics, Financial Markets.

Classes taught

Graduate: Business Analytics, Machine Learning, Data Visualization and Communication, Business Forecasting, Business Analytics Capstone, Time Series Analysis, Econometrics, Financial Econometrics, Financial Economics, Financial Modeling, Statistics, Mathematical Economics, Risk Management, Macroeconomics, Monetary Economics, Investment Management, Development Economics, Economic Growth, Quantitative Energy Economics.

Undergraduate: Machine Learning, Business Analytics, Data Visualization and Communication, Business Forecasting, Econometrics, Time Series Analysis, Financial Economics, Mathematical Economics, Statistics, Macroeconomics, Monetary Economics, Growth and Development Economics, Introduction to Economics.

Experience

- 8/2023-Present *Associate Professor*, University of New Haven, West Haven, Connecticut, US.
- 9/2019-8/2023 *Director*, EconPol Research, Development, and Consultancy Ltd., Famagusta Technologi-

cal Development Region (TechnoPark), Famagusta, North Cyprus.

- 5/2011-8/2023 *Professor*, Department of Economics, Eastern Mediterranean University, Famagusta, North Cyprus.
- 1/2017-8/2021 *Affiliated Professor*, Montpellier Business School, Montpellier. France.
- 9/2016-6/2018 *Consultant*, Republic of Turkey, Undersecretary of Prime Ministry, Ankara, Turkey.
- 6/2016-8/2019 *Data Analysis Specialist*, EconPol Research, Development Consultancy Ltd., Famagusta Technological Development Region (TechnoPark), Famagusta, North Cyprus.
- 7/2014-6/2020 *Extraordinary Professor*, University of Pretoria, Pretoria, South Africa.
- 7/2014-9/2018 *Affiliated Professor*, IPAG Business School, Paris, France.
- 5/2014-7/2016 *Thematic Team Member*, World Humanitarian Summit, United Nations.
- 3/2013-Present *Research Fellow*, Economic Research Forum, Cairo, Egypt.
- 5/2012-6/2016 *Advisor*, Republic of Turkey, Prime Ministry Disaster and Emergency Management Authority, Ankara, Turkey.
- 1/2013-2/2013 *Visiting Professor*, Department of Economics, University of Pretoria, Pretoria, South Africa.
- 7/2012-9/2012 *Visiting Professor*, Department of Economics, University of Pretoria, Pretoria, South Africa.
- 8/2007-5/2011 *Associate Professor*, Department of Economics, Eastern Mediterranean University, Famagusta, North Cyprus.
- 10/2005-8/2007 *Associate Professor*, Department of Econometrics, Cukurova University, Adana, Turkey.
- 8/2004-9/2005 *Associate Professor*, Department of Economics, Kazakhstan Institute of Management, Economics, and Strategic Research (KIMEP), Almaty, Kazakhstan.
- 4/2004-7/2004 *Associate Professor*, Department of Economics, Kyrgyz-Turkish Manas University, Bishkek, Kyrgyzstan.
- 10/2001-3/2004 *Assistant Professor*, Department of Economics, Kyrgyz-Turkish Manas University, Bishkek, Kyrgyzstan.
- 8/2000-9/2001 *Assistant Professor*, Department of Econometrics, Cukurova University, Adana, Turkey.
- 10/1996-3/1999 *Assistant Professor*, Department of Econometrics, Cukurova University, Adana, Turkey.
- 12/1994-6/1996 *Research Assistant*, Department of Economics, Wayne State University, Detroit, Michigan, US.
- 6/1994-12/1994 *Teaching Assistant*, Department of Economics, Wayne State University, Detroit, Michigan, US.
- 8/1994-6/1996 *Research Associate*, with Allen C. Goodman (director) and Elanor Nishura, *Economic Analyses of Drug Treatment Costs and Demand*, USA National Institute on Drug Abuse, Detroit, Michigan, US.
- 9/1991-12/1995 *Tutor*, Department of Economics, Wayne State University, Detroit, Michigan, US.

3/1987-9/1990 *Research Assistant*, Department of Economics, Cukurova University, Adana, Turkey.

Administrative appointments

2019-2023 *Member of the Board of Academic Promotions*, Eastern Mediterranean University, North Cyprus.

2019-2022 *Member of the Ethics Board*, Higher Education Planning, Supervision, Accreditation, and Coordination Board, North Cyprus.

2011d-2023 *Chair*, Department of Economics, Eastern Mediterranean University, North Cyprus.

2011c-2016 *Member of the Board of Directors*, Famagusta Technology Development Zone (Famagusta Technopark), Famagusta, North Cyprus.

2011b-2016 *Member of the Scientific Advisory Board*, Eastern Mediterranean University, North Cyprus.

2011a-2016 *Member of the University Disciplinary Committee*, Eastern Mediterranean University, North Cyprus.

2007-2012 *Ph.D. Program Coordinator*, Department of Economics, Eastern Mediterranean University, North Cyprus.

2007c *Acting Dean*, Faculty of Business and Economics, Eastern Mediterranean University, North Cyprus.

2007b- *Member of the Seminar Committee*, Department of Economics, Eastern Mediterranean University, North Cyprus.

2007a- *Member of the Graduate Committee*, Department of Economics, Eastern Mediterranean University, North Cyprus.

2006-2007b *Member of the Board of Research and Development*, Cukurova University, Adana, Turkey.

2006-2007a *ERASMUS Program Coordinator*, Department of Econometrics, Cukurova University, Adana, Turkey.

2005-2007c *Member of the Administrative Board*, Department of Econometrics, Cukurova University, Adana, Turkey.

2005-2007b *Associate Chair*, Department of Econometrics, Cukurova University, Adana, Turkey.

2005-2007a *Member of the Faculty Research Committee*, College of Economics and Business Administration, Cukurova University, Adana, Turkey.

2004-2005c *Member of the Doctoral and Research Committee*, Kazakhstan Institute of Management, Economics, and Strategic Research (KIMEP), Almaty, Kazakhstan.

2004-2005b *Member of the Department Research Committee*, Department of Economics, Kazakhstan Institute of Management, Economics, and Strategic Research (KIMEP), Almaty, Kazakhstan.

2004-2005a *Member of the Curriculum and Planning Committee*, Department of Economics, Kazakhstan Institute of Management, Economics, and Strategic Research (KIMEP), Almaty, Kazakhstan.

2002-2004	<i>Member of the College Council</i> , College of Economics and Business Administration, Manas University, Bishkek, Kyrgyzstan.
2000-2001	<i>Associate Chair</i> , Department of Econometrics, Cukurova University, Adana, Turkey.
1997-1999, 2000-2001	<i>Chair, Statistics Division</i> , Department of Econometrics, Cukurova University, Adana, Turkey.

Research & publication

PAPERS PUBLISHED IN REFEREED JOURNALS

245. Balcilar, M., Özkan, O., Usman, O., Akadiri, S. S., and Zambrano-Monserrate, M. A. (2025). A global shift: How modern technologies are powering the energy transition in the face of climate change. *Journal of Environmental Management*, 384. doi:10.1016/j.jenvman.2025.125610.
244. Balcilar, M., Elsayed, A. H., Khalfaoui, R., and Hammoudeh, S. (2025). Technological innovations fuel carbon prices and transform environmental management across Europe. *Journal of Environmental Management*, 373. doi:10.1016/j.jenvman.2024.123663.
243. Balcilar, M., Olasehinde-Williams, G., and Tokar, B. (2025). Achieving national food security in Sub-Saharan African countries: The role of foreign agricultural aid. *Food and Energy Security*, 14(1). doi:10.1002/fes3.70042.
242. Balcilar, M. and Usman, O. (2025). Global energy market uncertainty and exchange rate pass-through to food inflation. *Energy Research Letters*. doi:10.46557/001c.125871.
241. Gök, R., Hammoudeh, S., Ajmi, A. N., and Balcilar, M. (2025). Return spillovers between islamic and conventional banking rates: Evidence from emerging islamic countries. *Borsa Istanbul Review*. URL: doi:10.1016/j.bir.2025.05.012.
240. Sayilir, O., Ozkul, A. S., Balcilar, M., and Kuntze, R. (2025). Blockchain adoption and corporate sustainability performance: An analysis of the world's top public companies. *Sustainability*, 17. doi:10.3390/su17072855.
239. Ebadi, E., Balcilar, M., and Are, W. (2025). Assessing the role of the oil market in rising food prices: Strategic implications for food security in Gulf Cooperation Council countries. *International Journal of Energy Economics and Policy*, 15(1), 490–506. doi:10.32479/ijeep.17866.
- bibitemBalcilar2024Climate Balcilar, M., Mukherjee, Z., Gupta, R., and Das, S. (2024). Effect of temperature on the spread of contagious diseases: Evidence from over 2000 years of data. *Climate*, 12(12). doi:10.3390/cli12120225.
238. Balcilar, M., Usman, O., and Duman, G. M. (2024). Nonlinear network connectedness: Assessing financial risk transmission in MENA and influence of external financial conditions. *Emerging Markets Review*, 62. doi:10.1016/j.ememar.2024.101186.

237. Balcilar, M., Usman, O., Wohar, M., Roubaud, D., and Gungor, H. (2024). Global liquidity effect of quantitative easing on emerging markets. *Empirical Economics*, 67(6), 2449–2461. doi:10.1007/s00181-024-02625-9.
236. Balcilar, M., Usman, O., and Agan, B. (2024). On the connectedness of commodity markets: A critical and selective survey of empirical studies and bibliometric analysis. *Journal of Economic Surveys*, 38(1), 97–136. doi:10.1111/joes.12541.
235. Balcilar, M., Usman, O., and Özkan, O. (2024). Tourism development and U.S. energy security risks: a KRLS machine learning approach. *Current Issues in Tourism*, 27(1), 37–44. doi:10.1080/13683500.2023.2245109.
234. Balcilar, M. and Agan, B. (2024). Identifying the key drivers in energy technology fields: The role of spillovers and public policies. *Sustainability*, 16(20). doi:10.3390/su16208875.
233. Balcilar, M., Usman, O., Yülek, M., Ağan, B., and Erdal, B. (2024). House price connectedness and consumer sentiment in an era of destabilizing macroeconomic conditions: Empirical evidence from Türkiye. *Borsa Istanbul Review*, 24(1), 14–34. doi:10.1016/j.bir.2023.08.006.
- bibitemKarlilarPata202431304 Karlilar Pata, S. and Balcilar, M. (2024). Decarbonizing energy: Evaluating fossil fuel displacement by renewables in OECD countries. *Environmental Science and Pollution Research*, 31(21), 31304–31313. doi:10.1007/s11356-024-33324-8.
232. Karlilar Pata, S. and Balcilar, M. (2024). Identifying the influence of climate policy uncertainty and oil prices on modern renewable energies: Novel evidence from the United States. *Clean Technologies and Environmental Policy*. doi:10.1007/s10098-024-02969-x.
231. Asadi, M., Balcilar, M., Sheikh, U. A., Roubaud, D., and Ghasemi, H. R. (2023). Are there inextricable connections among automobile stocks, crude oil, steel, and the US dollar? *Energy Economics*, 128, 107176. doi:10.1016/j.eneco.2023.107176.
230. Sanli, S., Balcilar, M., and Ozmen, M. (2023). Predicting the volatility of bitcoin returns based on kernel regression. *Annals of Operations Research*. doi:10.1007/s10479-023-05490-4.
229. Balcilar, M., Usman, O., and Ozkan, O. (2023). Tourism development and U.S. energy security risks: A KRLS machine learning approach. *Current Issues in Tourism*. doi:10.1080/13683500.2023.2245109.
228. Sibande, X., Demirer, R., Balcilar, M., and Gupta, R. (2023). On the pricing effects of bitcoin mining in the fossil fuel market: The case of coal. *Resources Policy*, 85(B), 103539. doi:10.1016/j.resourpol.2023.103539.

227. Balcilar, M., Ekwueme, D. C., and Ciftci, H. (2023). Assessing the effects of natural resource extraction on carbon emissions and energy consumption in sub-Saharan Africa: A STIRPAT model approach. *Sustainability*, 15(12), 9676. doi:10.3390/su15129676.
226. Elbadri, M., Bsikre, S., Alamari, O., and Balcilar, M. (2023). Nexus between renewable energy consumption, economic growth, and CO₂ emissions in Algeria: New evidence from the fourier-bootstrap ARDL approach. *Natural Resources Forum*, 47(3), 393–412. doi:10.1111/1477-8947.12292.
225. Karlilar, S., Balcilar, M., and Emir, F. (2023). Environmental sustainability in the OECD: The power of digitalization, green innovation, renewable energy and financial development. *Telecommunications Policy*, 47(6), 102568. doi:10.1016/j.telpol.2023.102568.
224. Agan, B. and Balcilar, M. (2023). Unraveling the green growth matrix: Exploring the impact of green technology, climate change adaptation, and macroeconomic factors on sustainable development. *Sustainability*, 15(11), 8530. doi:10.3390/su15118530.
223. Balcilar, M., Gabauer, D., Gupta, R., and Pierdzioch, C. (2023). Climate risks and forecasting stock market returns in advanced economies over a century. *Mathematics*, 11(9), 2077. doi:10.3390/math11092077.
222. Balcilar, M., Usman, O., and Ike, G. N. (2023). Operational behaviours of multinational corporations, renewable energy transition, and environmental sustainability in Africa: Does the level of natural resource rents matter? *Resources Policy*, 81, 103344. doi:10.1016/j.resourpol.2023.103344.
221. Balcilar, M., Uzuner, G., Nwani, C., and Bekun, F. V. (2023). Boosting energy efficiency in Turkey: The role of public-private partnership investment. *Sustainability*, 15(3), 2273. doi:10.3390/su15032273.
220. Balcilar, M., Uzuner, G., Bekun, F. V., and Wohar, M. E. (2023). Housing price uncertainty and housing prices in the UK in a time-varying environment. *Empirica*, 50(2), 523–549. doi:10.1007/s10663-023-09567-y.
219. Balcilar, M. and Agan, B. (2023). On the impact of climate change policies on the clean technology innovation: Evidence from patent data analysis. *Environmental and Climate Technologies*, 27(1), 850–863. doi:10.2478/rtuect-2023-0062.
218. Balcilar, M. and Ozdemir, H. (2023). On the risk spillover from Bitcoin to altcoins: The fear of missing out and pump-and-dump scheme effects. *Journal of Risk and Financial Management*, 16(1), 41. doi:10.3390/jrfm16010041.
217. Balcilar, M., Elsayed, A. H., and Hammoudeh, S. (2023). Financial connectedness and risk transmission among MENA countries: Evidence from connectedness network and clustering analysis. *Journal of International Financial Markets Institutions & Money*, 82, 101656. doi:10.1016/j.intfin.2022.101656.

216. Balcilar, M., Usman, O., and Ike, G. N. (2023). Investing green for sustainable development without ditching economic growth. *Sustainable Development*, 31(2), 728–743. doi:10.1002/sd.2415.
215. Gil-Alana, L. A., Solarin, S. A., Balcilar, M., and Gupta, R. (2023). Productivity and GDP: International evidence of persistence and trends over 130 years of data. *Empirical Economics*, 64(3), 1219–1246. doi:10.1007/s00181-022-02281-x.
214. Shahbaz, M., Balcilar, M., Mahalik, M. K., and Saint Akadiri, S. (2023). Is causality between globalization and energy consumption bidirectional or unidirectional in top and bottom globalized economies? *International Journal of Finance & Economics*, 28(2), 1939–1964. doi:10.1002/ijfe.2519.
213. Balcilar, M. and Usman, O. (2023). Regime-dependent financial risk transmission and connectedness in MENA economies: A smooth transition threshold vector autoregressive analysis. *Topics in Middle Eastern & North African Economies*, 25(1), 55–61. <http://meea.sites.luc.edu/volume25/meea25.html>.
212. Balcilar, M., Gupta, R., and Pierdzioch, C. (2022). Oil-price uncertainty and international stock returns: Dissecting quantile-based predictability and spillover effects using more than a century of data. *Energies*, 15(22), 8436. doi:10.3390/en15228436.
211. Balcilar, M., Gupta, R., and Nel, J. (2022). Rare disaster risks and gold over 700 years: Evidence from nonparametric quantile regressions. *Resources Policy*, 79, 103053. doi:10.1016/j.resourpol.2022.103053.
210. Balcilar, M. and Gulcan, C. (2022). Determinants of protective healthcare services awareness among female Syrian refugees in Turkey. *Healthcare*, 10(9), 1717. doi:10.3390/healthcare10091717.
209. Balcilar, M., Ozdemir, Z. A., Ozdemir, H., Aygun, G., and Wohar, M. E. (2022). The macroeconomic impact of economic uncertainty and financial shocks under low and high financial stress. *North American Journal of Economics and Finance*, 63. doi:10.1016/j.najef.2022.101801.
208. Balcilar, M., Ozdemir, H., and Agan, B. (2022). Effects of COVID-19 on cryptocurrency and emerging market connectedness: Empirical evidence from quantile, frequency, and lasso networks. *Physica A-Statistical Mechanics and Its Applications*, 604, 127885. doi:10.1016/j.physa.2022.127885.
207. Balcilar, M., Sertoglu, K., and Agan, B. (2022). The COVID-19 effects on agricultural commodity markets. *Agrekon*, 61(3), 239–265. doi:10.1080/03031853.2022.2078381.
206. Balcilar, M. and Demirer, R. (2022). U.S. monetary policy and the predictability of global economic synchronization patterns. *Journal of Economics and Finance*, 46(3), 473–492. doi:10.1007/s12197-022-09577-9.

205. Shahabad, R. D. and Balcilar, M. (2022). Modelling the dynamic interaction between economic policy uncertainty and commodity prices in India: The dynamic autoregressive distributed lag approach. *Mathematics*, 10(10), 1638. doi:10.3390/math10101638.
204. Attarzadeh, A. and Balcilar, M. (2022). On the dynamic return and volatility connectedness of cryptocurrency, crude oil, clean energy, and stock markets: A time-varying analysis. *Environmental Science and Pollution Research*, 29(43), 65185–65196. doi:10.1007/s11356-022-20115-2.
203. Attarzadeh, A. and Balcilar, M. (2022). On the dynamic connectedness of the stock, oil, clean energy, and technology markets. *Energies*, 15(5), 1893. doi:10.3390/en15051893.
202. Plakandaras, V., Gupta, R., Balcilar, M., and Ji, Q. (2022). Evolving United States stock market volatility: The role of conventional and unconventional monetary policies. *North American Journal of Economics and Finance*, 60, 101666. doi:10.1016/j.najef.2022.101666.
201. Balcilar, M., Olasehinde-Williams, G., and Tokar, B. (2022). The investment volatility-dampening role of foreign aid in poor sub-Saharan African countries. *Journal of International Trade & Economic Development*, 31(5), 798–809. doi:10.1080/09638199.2022.2030392.
200. Agan, B. and Balcilar, M. (2022). On the determinants of green technology diffusion: An empirical analysis of economic, social, political, and environmental factors. *Sustainability*, 14(4), 2008. doi:10.3390/su14042008.
199. Balcilar, M., Ozdemir, Z. A., Ozdemir, H., Aygun, G., and Wohar, M. E. (2022). Effectiveness of monetary policy under the high and low economic uncertainty states: Evidence from the major Asian economies. *Empirical Economics*, 63(4), 1741–1769. doi:10.1007/s00181-021-02198-x.
198. Balcilar, M., Gabauer, D., Gupta, R., and Pierdzioch, C. (2022). Uncertainty and forecastability of regional output growth in the UK: Evidence from machine learning. *Journal of Forecasting*, 41(6), 1049–1064. doi:10.1002/for.2851.
197. Balcilar, M. and Gulcan, C. (2022). Factors associated with self-reported chronic diseases of Syrian refugees in Turkey. *Annals of Global Health*, 88(1), 62. doi:10.5334/aogh.3794.
196. Balcilar, M., Nugent, J. B., and Xu, J. (2022). Adversities in Syria and their relation to their physical and mental health conditions as Syrian refugees in Turkey. *Scottish Journal of Political Economy*, 69(1, SI), 37–59. doi:10.1111/sjpe.12295.
195. Balcilar, M., Ike, G., and Gupta, R. (2022). The role of economic policy uncertainty in predicting output growth in emerging markets: A mixed-frequency granger causality approach. *Emerging Markets Finance and Trade*, 58(4), 1008–1026. doi:10.1080/1540496X.2020.1860747.

194. Balcilar, M., Berisha, E., Cepni, O., and Gupta, R. (2022). The predictive power of the term spread on inequality in the United Kingdom: An empirical analysis. *International Journal of Finance & Economics*, 27(2), 1979–1988. doi:10.1002/ijfe.2254.
193. Olasehinde-Williams, G. O. and Balcilar, M. (2022). The effect of geopolitical risks on insurance premiums. *Journal of Public Affairs*, 22(1), e2387. doi:10.1002/pa.2387.
192. Balcilar, M. and Toren, E. (2021). The time-varying effect of asset prices on Turkey's circular economy. *Sustainability*, 13(22), 12373. doi:10.3390/su132212373.
191. Balcilar, M., Gabauer, D., and Umar, Z. (2021). Crude oil futures contracts and commodity markets: New evidence from a TVP-VAR extended joint connectedness approach. *Resources Policy*, 73, 102219. doi:10.1016/j.resourpol.2021.102219.
190. Balcilar, M., Bouri, E., Gupta, R., and Pierdzioch, C. (2021). El Niño, La Niña, and the forecastability of the realized variance of heating oil price movements. *Sustainability*, 13(14), 7987. doi:10.3390/su13147987.
189. Balcilar, M., Usman, O., Gungor, H., Roubaud, D., and Wohar, M. E. (2021). Role of global, regional, and advanced market economic policy uncertainty on bond spreads in emerging markets. *Economic Modelling*, 102, 105576. doi:10.1016/j.econmod.2021.105576.
188. Gupta, R., Sheng, X., Balcilar, M., and Ji, Q. (2021). Time-varying impact of pandemics on global output growth. *Finance Research Letters*, 41, 101823. doi:10.1016/j.frl.2020.101823.
187. Balcilar, M., Roubaud, D., Uzuner, G., and Wohar, M. E. (2021). Housing sector and economic policy uncertainty: A GMM panel VAR approach. *International Review of Economics & Finance*, 76, 114–126. doi:10.1016/j.iref.2021.05.011.
186. Balcilar, M. and Usman, O. (2021). Exchange rate and oil price pass-through in the BRICS countries: Evidence from the spillover index and rolling-sample analysis. *Energy*, 229, 120666. doi:10.1016/j.energy.2021.120666.
185. Abu Eleyan, I. M., Catik, A. N., Balcilar, M., and Balli, E. (2021). Are long-run income and price elasticities of oil demand time-varying? new evidence from BRICS countries. *Energy*, 229, 120710. doi:10.1016/j.energy.2021.120710.
184. Balcilar, M., Demirer, R., and Bekun, F. V. (2021). Flexible time-varying betas in a novel mixture innovation factor model with latent threshold. *Mathematics*, 9(8), 915. doi:10.3390/math9080915.
183. Balcilar, M., Roubaud, D., Usman, O., and Wohar, M. E. (2021). Moving out of the linear rut: A period-specific and regime-dependent exchange rate and oil price pass-through in the BRICS countries. *Energy Economics*, 98, 105249. doi:10.1016/j.eneco.2021.105249.

182. Balcilar, M., Berisha, E., Gupta, R., and Pierdzioch, C. (2021). Time-varying evidence of predictability of financial stress in the United States over a century: The role of inequality. *Structural Change and Economic Dynamics*, 57, 87–92. doi:10.1016/j.strueco.2021.02.002.
181. Balcilar, M., Gupta, R., Ma, W., and Makena, P. (2021). Income inequality and economic growth: A re-examination of theory and evidence. *Review of Development Economics*, 25(2), 737–757. doi:10.1111/rode.12754.
180. Balcilar, M., Bathia, D., Demirer, R., and Gupta, R. (2021). Credit ratings and predictability of stock return dynamics of the BRICS and the PIIGS: Evidence from a nonparametric causality-in-quantiles approach. *Quarterly Review of Economics and Finance*, 79, 290–302. doi:10.1016/j.qref.2020.07.005.
179. Hkiri, B., Cunado, J., Balcilar, M., and Gupta, R. (2021). Time-varying relationship between conventional and unconventional monetary policies and risk aversion: International evidence from time- and frequency-domains. *Empirical Economics*, 61(6), 2963–2983. doi:10.1007/s00181-020-02004-0.
178. Balcilar, M., Gupta, R., Sousa, R. M., and Wohar, M. E. (2021). Linking U.S. state-level housing market returns, and the consumption-(dis)aggregate wealth ratio. *International Review of Economics & Finance*, 71, 779–810. doi:10.1016/j.iref.2020.10.011.
177. Balcilar, M., Bouri, E., Gupta, R., and Kyei, C. K. (2021). High-frequency predictability of housing market movements of the United States: The role of economic sentiment. *Journal of Behavioral Finance*, 22(4), 490–498. doi:10.1080/15427560.2020.1822359.
176. Balcilar, M., Gupta, R., and Kisten, T. (2021). The impact of uncertainty shocks in South Africa: The role of financial regimes. *Review of Financial Economics*, 39(4), 442–454. doi:10.1002/rfe.1120.
175. Balcilar, M., Roubaud, D., Usman, O., and Wohar, M. E. (2021). Testing the asymmetric effects of exchange rate pass-through in BRICS countries: Does the state of the economy matter? *World Economy*, 44(1), 188–233. doi:10.1111/twec.12990.
174. Balcilar, M., Aghazadeh, S., and Ike, G. N. (2021). Modelling the employment, income and price elasticities of outbound tourism demand in OECD countries. *Tourism Economics*, 27(5), 971–990. doi:10.1177/1354816620910929.
173. Balcilar, M., Gupta, R., Sousa, R. M., and Wohar, M. E. (2021). What can fifty-two collateralizable wealth measures tell us about future housing market returns? evidence from US state-level data. *Journal of Real Estate Finance and Economics*, 62(1), 81–107. doi:10.1007/s11146-019-09733-9.
172. Balcilar, M., Ozdemir, Z. A., and Ozdemir, H. (2021). Dynamic return and volatility spillovers among S&P 500, crude oil, and gold. *International Journal of Finance & Economics*, 26(1), 153–170. doi:10.1002/ijfe.1782.

171. Aye, G. C., Balcilar, M., and Gupta, R. (2020). The effectiveness of monetary policy in South Africa under inflation targeting: Evidence from a time-varying factor-augmented vector autoregressive model. *The Journal of Developing Areas*, 54(4). doi:10.1353/jda.2020.0037.
170. Balcilar, M., Gupta, R., Lee, C.-C., and Olasehinde-Williams, G. (2020). Insurance and economic policy uncertainty. *Research in International Business and Finance*, 54, 101253. doi:10.1016/j.ribaf.2020.101253.
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21. Gedik Akdogan, M., Balcilar, M., Public Debt and Productivity in Turkey, *Proceedings of the 2nd International Conference of the Turkish Economic Association (TEK)*, Kyrenia, Turkish Republic of North Cyprus, (2010).
20. Gungor, H., Ciftcioglu, S., Balcilar, M., Does Financial Development Increase the Rate of Investment, *Proceedings of the 2nd International Conference of the Turkish Economic Association (TEK)*, Kyrenia, Turkish Republic of North Cyprus, (2010).
19. Gungor, H., Ciftcioglu, S., Balcilar, M., The Relationship between Financial Development, Saving, Investment, Foreign Trade, and Economic Growth: Case of Turkey, *Proceedings of the 9th International Conference of the Middle East Economic Association (MEEA)*, Organized by MEEA and Istanbul Technical University, Istanbul, Turkey, (2010).
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16. Balcilar, M., Bagzibagli, K. Sources of Macroeconomic Fluctuations in MENA Countries, *Proceedings of the 7th International Conference of the Middle East Economic Association (MEEA)*, Organized by Eastern Mediterranean University and Middle East Economic Association, Famagusta, Turkish Republic of North Cyprus, (2008).

15. Balcilar, M., Is there Common MENA Region Business Cycle, *Proceedings of the 7th International Conference of the Middle East Economic Association (MEEA)*, Organized by Eastern Mediterranean University and Middle East Economic Association, Famagusta, Turkish Republic of North Cyprus, (2008).
14. Balcilar, M., Agglomeration and Coagglomeration Economies and Turkish Organized Industrial Zones, *Proceedings of the Conference on Problems and Prospects for Organized Industrial Zones*, jointly organized by the Izmir Ataturk Organized Industrial Zone and Dokuz Eylul University, November 2007, Izmir, Turkey, 45-70, (2008).
13. Balcilar, M., Tuna, G. Sources of Macroeconomic Fluctuations in Turkey, *Proceedings of 15th World Congress of the International Economic Association, Organized by Turkish Economic Association and International Economic Association*, Istanbul, Turkey, (2008).
12. Balcilar, M., A Wavelet Analysis of the Stock Price-Volume Relationship, *Proceedings of the First International Manas University Conference in Economics*, Kyrgyz-Turkish Manas University, Bishkek, Kyrgyzstan, (2004).
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10. Balcilar, M., Governance Issues in Central Asia States: Effects on the Business and Development, *Proceedings of the State and Business in XXI Century: International Scientific-Practical Conference*, Al-Farabi Kazakh National University, Almaty, Kazakhstan, 303-313, (2003).
9. Balcilar, M., On the Governance and Economic Development in Transition Countries, *Proceedings of the Conference on the Strategic Perspectives and Contemporary Economic Problems of Kyrgyz Republic*, Kyrgyz-Russian Slavic University, Bishkek, Kyrgyzstan, 3-15, (2003).
8. Balcilar, M., An Econometric Analysis on the Governance and Macroeconomic Performance in Central Asian Countries, *First International Conference on the Transition Countries on the Way of Transforming Into Market Economies*, Kyrgyz-Turkish Manas University, Biskek, Kyrgyzstan, (2003).
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5. Balcilar, M., Teaching Econometrics Using Dynamic Graphics, *Proceeding of the Osh State University International Science Conference on University Education*, Osh, Kyrgyzstan, 170-180, (2002).

4. Balcilar, M., An Evolution of the Growth Efficiency of the Transition Economies, *Proceeding of the Kyrgyz-Turkish Manas University International Conference on Globalization and Transition Economies*, Kyrgyz-Turkish Manas University Publications, No: 29, 89-129, Bishkek, Kyrgyzstan, (2002).
3. Balcilar, M., Long Memory and Structural Breaks in Turkish Inflation Rates, *VI. Ulusal Ekonometri ve İstatistik Sempozyumu Bildirileri*, Ankara, (2003).
2. Balcilar, M., Doganlar, M., Estimation of Dynamic Import Demand Functions for the Turkish Economy: Cointegration Approach, *Proceedings of the Third National Econometrics and Statistics Symposium*, 311-324, Bursa, Turkey, (1998).
1. Balcilar, M., Bootstrap Based Unit Root Test, *Proceedings of the Research Symposium '97*, State Statistical Institute, 28-31, Ankara, Turkey, (1997).

Conference presentations & talks

85. Balcilar, M., From AI to Carbon: The Financial Ripple of Technological Advancements, *9th International Conference on Research in Business, Management and Economics*, 22-23 December 2024, Berlin, Germany.
84. Balcilar, M., Can Gold Serve as a Hedge Against Economic Uncertainty? A Non-parametric Quantile Assessment, *Dive into the Data Deluge: Data Analytics and Machine Learning Conference – DATAMACLEA'24*, 28 June 2024, Ankara, Turkey.
83. Balcilar, M., Nonparametric Quantile Causality Assessment of Uncertainty and Gold: Multivariate and Bootstrap Extensions, *International Symposium on Nonparametric Statistics, Conference*, 25-29 June 2024, Braga, Portugal.
82. Majumdar, A., Das, S., Balcilar, M., Baguley, L., Mangisa, S., Are winters getting shorter?, *International Symposium on Nonparametric Statistics, Conference*, 25-29 June 2024, Braga, Portugal.
81. Balcilar, M., Agan, B., Driving the Clean Energy Transition: Assessing Innovations, Spillover Effects, and Policy Implications across Diverse Technology Fields, *10th International Conference on Environmental Science and Technology*, 5-9 June 2024, Sarajevo, Bosnia and Herzegovina,.
80. Balcilar, M., Agan, B., Unlocking the Impact of Climate Change Mitigation Policies: A Comprehensive Study of Clean and Dirty Innovation Dynamics, *XVI International Scientific Conference of Environmental and Climate Technologies*, 10-12 May 2023, Riga, Latvia.
79. Balcilar, M., External economic uncertainty shock and financial risk connectedness of the MENA economies under low and high financial stress, *43th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2023, New-Orleans, US.

78. Balcilar, M., Elsayed, A., Hammoudeh, S., Financial Connectedness and Risk Transmission among MENA Countries: Evidence from Connectedness Network and Clustering Analysis, *97th Annual Conference of the Western Economic Association International (WEAI)*, June 29–July 3, 2022, Portland, US.
77. Balcilar, M., Elsayed, A., Hammoudeh, S., Financial Connectedness and Risk Transmission among MENA Countries: Evidence from Connectedness Network and Clustering Analysis, *28th Annual Conference of the Economic Research Forum (ERF)*, March 2022, Cairo, Egypt.
76. Balcilar, M., Keynote Speaker, Technological Achievement of Nations: What it Succeeds?, *SPIP 2021: Smart Economic Planning and Industrial Policy Conference*, OSTIM Technical University, 13–14 October 2021, Ankara, Turkey.
75. Ercanoglu, M., Balcilar, M., Aydın, F., Aydemir, S., Deveci, G., Çintimur, B., ARAS: A Web-Based Landslide Susceptibility and Hazard Mapping System, *5th World Landslide Forum: Implementing and Monitoring the Sendai Landslide Partnerships 2015–2025*, International Consortium on Landslides (ICL), 2–6 November 2021, Kyoto, Japan.
74. Balcilar, M., Keynote Speaker, COVID-19 Recession: The Global Economy in Crises, *International Conference on Eurasian Economies 2020*, Eurasian Economists Association, 2–4 September 2020, Baku, Azarbaijan.
73. Balcilar, M., Nugent, J. B., Casualties in Syria and the Physical and Mental Health Status of Syrian Refugees in Turkey, *40th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2020, San Diego, US.
72. Balcilar, M., Nugent, J. B., Casualties in Syria and the Health Status of Syrian Refugees in Turkey, *94th Annual Conference of the Western Economic Association International*, June 28–July 2, 2019, San Francisco, US.
71. Balcilar, M., Gungor, H., Global Liquidity Effect of Quantitative Easing in Major Advanced Economies on Emerging Markets, *AFML2019: 10th Annual Financial Market Liquidity Conference*, 4–15 November 2019, Budapest, Hungary.
70. Balcilar, M., Gungor, H., The Impact of Economic Policy Uncertainty on Government Bond Risk Spreads in Emerging Markets, *AFML2019: 10th Annual Financial Market Liquidity Conference*, 4–15 November 2019, Budapest, Hungary.
69. Balcilar, M., Keynote Speaker, Health Status Survey of Syrian Refugees in Turkey: Noncommunicable Disease Risk Factor Surveillance among Syrian Refugees Living in Turkey, *The Fifth Turkish Medical World Congress*, Ministry of Health of Turkey Under the Auspices of the Presidency of the Republic of Turkey, 27–29 October 2018, Istanbul, Turkey.

68. Balcilar, M., Nugent, J. B., The Migration of Fear: The Effects of Treatments of Violence and Support on Migration Intentions of Syrian Refugees, *92nd Annual Conference of the Western Economic Association International*, 25--29 June 2017, San Diego, US.
67. Balcilar, M., Has Oil Price Risk Gone Global? An Empirical Analysis of Quantiles, *37th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2017, Chicago, US.
66. Balcilar, M., Nugent, J. B., The Migration of Fear: An Analysis of Migration Choices of Syrian Refugees, *37th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2017, Chicago, US.
65. Balcilar, M., Oktay, F., Making Hard Choices An Analysis of Settlement Choices and Willingness to Return of Syrian Refugees, *6th International Disaster and Risk Conference IDRC 2016 Integrative Risk Management - Towards Resilient Cities*, Global Risk Forum GRF Davos, 28 August--01 September 2016, Davos, Switzerland.
64. Demirer, R., Balcilar, M., Market Regimes, Safe Havens and Dynamic Hedging Strategies for Emerging Markets: A Comparison of Real And Financial Assets, *36th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2016, San Francisco, US.
63. Balcilar, M., When do The GCC Stock Markets Offer Diversification Benefits? Novel Evidence from a Nonparametric Causality in Quantiles Test, *36th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2016, San Francisco, US.
62. Hammoudeh, S., Balcilar, M., Forecasting Inflation in the GCC using Commodity Prices and Structural Break Models, *36th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2016, San Francisco, US.
61. Balcilar, M., Demirer, R., Hammoudeh, S., Time-varying Integration and International Diversification Benefits of Sharia-Compliant Equity Sectors, *35th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2015, Boston, US.
60. Balcilar, M., Cerci, G., Demirer, R., Global and Regional Risk Transmission to Sukuk Market: A Dynamic Regime Switching Analysis, *35th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2015, Boston, US.
59. Balcilar, M., Kutan, A. M., Yaya, M., Financial Integration in Small Islands: The Case of Cyprus, *35th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2015, Boston, US.

58. Balcilar, M., Hammoudeh, S., Forecasting Inflation in the GCC Using Commodity Prices and Structural Break Models, *90th Annual Conference of the Western Economic Association International*, June 28–July 2, 2015, Honolulu, Hawaii.
57. Balcilar, M., Kutan, A. M., Yaya, M., What Does Your Motherland Do for You? Testing Dependency Theory in Small Islands, *34th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2014, Philadelphia, US.
56. Balcilar, M., Demirer, R., Hammoudeh, S., Sectoral Equity Returns in the GCC Markets and Diversification Opportunities Across Market Regimes, *34th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2014, Philadelphia, US.
55. Balcilar, M., The Time-Varying Causality between Spot and Futures Crude Oil Prices: A Regime Switching Approach, *89th Annual Conference of the Western Economic Association International*, June 2014, Denver, US.
54. Balcilar, M., Hammoudeh, S., Regional and Global Spillovers and Diversification Opportunities in the GCC- Wide Equity Sectors across Market Regimes, *89th Annual Conference of the Western Economic Association International*, June 2014, Denver, US.
53. Balcilar, M., Hammoudeh, S., Asaba, N. F., A Regime-Dependent Assessment of the Information Transmission Dynamics between Oil Prices, Precious Metal Prices and Exchange Rates, *89th Annual Conference of the Western Economic Association International*, June 2014, Denver, US.
52. Balcilar, M., Keynote Speaker, New Perspectives on Sovereign Rating and Country Risk, *Fifth Izmir Economic Congress*, Ministry of Economic Development of the Republic of Turkey, 30 October–1 November 2013, Izmir, Turkey.
51. Balcilar, M., Demirer, R., Hammoudeh, S., Does Market Volatility Drive the Investor Herding in Oil-Rich, Frontier Markets, *88th Annual Conference of the Western Economic Association International*, June 28–July 2, 2013, Seattle, US.
50. Balcilar, M., Ozdemir, Z. A., The Causal Nexus between Oil Prices and Equity Market in The U.S.: A Regime Switching Model, *EconAnadolu 2013: Anadolu International Conference in Economics*, June 2013, Eskisehir, Turkey.
49. Balcilar, M., Ozdemir, Z. A., Tansel, A., Are Labor Force Participation Rates Really Non-Stationary? Evidence from Three OECD Countries, *EconAnadolu 2013: Anadolu International Conference in Economics*, June 2013, Eskisehir, Turkey.
48. Balcilar, M., Demirer, R., Dynamic Investor Herds in a Regime- Switching Environment: Evidence from Turkish Stock Market, *EconAnadolu 2013: Anadolu International Conference in Economics*, June 2013, Eskisehir, Turkey.

47. Balcilar, M., Demirer, R., Hammoudeh, S., Market Regimes and investor Herds: Evidence from Gulf Arab Stock Markets, *33rd Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2013, San Diego, US.
46. Balcilar, M., Demirer, R., Hammoudeh, S., Do Global Shocks Drive Investor Herds in Oil-Rich Frontier Markets?, *12th International Conference of The Middle East Economic Association (MEEA)*, March 2013, Speyer, Germany.
45. Balcilar, M., Kucuk, N., Is There a Common MENA Business Cycle?, *International Conference on Eurasian Economies-2013*, Eurasian Economists Organization, 17-18 September 2013, St. Petersburg, Russia.
44. Oluwatoyin, A.M., Balcilar, M., Does the Recent Spike in food Prices Have any Economic Benefit?, *International Conference On Applied Economics (ICOAE 2012)*, Swedish University of Agricultural Sciences - Department of International Trade, TEI of Western Macedonia, Greece. 28-30 June 2012, Uppsala, Sweden.
43. Balcilar, M., Hope versus Reality: 20 Years of Economic Transition at the Turkish States of the Central Asia, *International Conference on Eurasian Economies-2012*, 11-13 October 2012, Almaty, Kazakhstan.
42. Balcilar, M., Demirer, R., Hammoudeh, S., Investor Herds and Regime-Switching: Evidence from Gulf Arab Stock Markets, *32nd Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2012, Chicago, US.
41. Kucuk, N., Balcilar, M., On the Gender Gap, ICT, and Institutional Infrastructure: A Dynamic Panel Data Analysis, *HDCA Conference 2011 The Hague*, Human Development and Capability Association (HDCA), 5-8 September 2011, The Hague, The Netherlands.
40. Balcilar, M., Güloğlu, B., İspir, S., İvred, M., Sustainability of EU Budget Deficit: An Individual Specific Panel Threshold Autoregressive Unit Root Test, *12th International Conference on Econometrics, Operations Research and Statistics*, May 2011, Denizli, Turkey.
39. Balcilar, M., Genc, I., The Links Between Crude Oil Prices and GCC Stock Markets: The Regime Switching Granger Causality Tests, *31th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Science Associations (ASSA)*, January 2011, Denver, US.
38. Balcilar, M., The Links Between Crude Oil Prices And GCC Stock Markets: The Time Varying Granger Causality Tests, *9th International Conference of the Middle East Economic Association (MEEA)*, Organized by MEEA and Istanbul Technical University, June 2010, Istanbul, Turkey.
37. Gungor, H., Ciftcioglu, S., Balcilar, M., The Relationship between Financial Development, Saving, Investment, Foreign Trade, and Economic Growth: Case of Turkey,

- 9th International Conference of the Middle East Economic Association (MEEA)*, Organized by MEEA and Istanbul Technical University, June 2010, Istanbul, Turkey.
36. Balcilar, M., Danju, D., Sources of Output Volatility in MENA Countries, *Turgut Ozal International Conference on Economics and Politics - I*, organized by Inonu University, April 2010, Malatya, Turkey.
 35. Acikgoz, S., Balcilar, M., Saracoglu, B., Openness and Financial Development: Time Series Evidence for Turkey, *Anadolu International Conference in Economics*, organized by Anadolu University, June 2009, Eskisehir, Turkey.
 34. Balcilar, M., Asymmetric and Time Varying Causality between Inflation and Inflation Uncertainty, Keynote Speaker, *Spring Meeting of Young Economists 2009*, European Association of Young Economists, 23-25 April 2009, Istanbul, Turkey.
 33. Balcilar, M., The Crude Oil Futures-Spot Price Puzzle and The Asymmetric Causality, *10th National Conference on Econometrics, Operations Research and Statistics*, May 2009, Erzurum, Turkey.
 32. Balcilar, M., The Role of Global, Regional, and Country Specific Shocks in Business Cycle in the Middle East and North Africa, *8th International Conference of the Middle East Economic Association (MEEA)*, Organized by Middle East Economic Association (MEEA), University of Nice-Sophia Antipolis (UNSA) and International University of Monaco, March 2009, Nice, France.
 31. Balcilar, M., Does the futures market tend to lead the spot market for crude oil? Evidence from time varying Granger causality tests, *Workshop on Methods and Applications for Macroeconomics and Finance*, Ege University, Department of Economics, November 2009, Izmir, Turkey.
 30. Balcilar, M., Tuna, G. Sources of Macroeconomic Fluctuations in Turkey, *15th World Congress of the International Economic Association*, Organized by Turkish Economic Association and International Economic Association, June 2008, Istanbul, Turkey.
 29. Balcilar, M., Bagzibagli, K. Sources of Macroeconomic Fluctuations in MENA Countries, *7th International Conference of the Middle East Economic Association (MEEA)*, Organized by Eastern Mediterranean University and Middle East Economic Association, May 2008, Famagusta, Turkish Republic of North Cyprus.
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 27. Balcilar, M., RSTAR: Package for Smooth Transition Autoregressive Modeling Using R, *The R User Conference 2008*, Organized by Technische Universität Dortmund and the Austrian Statistical Association, August 2008, Dortmund, Germany.

26. Balcilar, M., Agglomeration and Coagglomeration Economies and Turkish Organized Industrial Zones, *Conference on Problems and Prospects for Organized Industrial Zones*, jointly organized by the Izmir Ataturk Organized Industrial Zone and Dokuz Eylul University, November 2007, Izmir, Turkey.
25. Balcilar, M., The Dynamics of Real Exchange Rate Misalignment in Turkey, *Eight National Econometrics and Statistics Symposium*, Inonu University, May 2007, Malatya, Turkey.
24. Balcilar, M., Danju, D. Real Exchange Rate Misalignment and Macroeconomic Performance in Turkey, *First International Conference on Business, Management and Economics*, Yasar University, June 2005, Izmir, Turkey.
23. Balcilar, M., Inflation Persistence in Transition Economies, *First International Conference on Business, Management and Economics*, Yasar University, June 2005, Izmir, Turkey.
22. Balcilar, M., Competition in Transition Economies: Does Ownership Matter?, *Business at the Heart of Central Asia: Critical Issues of Competition and Competitiveness*, Westminster International University in Tashkent, May 2005, Tashkent, Uzbekistan.
21. Balcilar, M., Leonard, J. Private Sector Development in Kazakhstan and Other Central Asian Economies, *Private Sector Development in North East Asia: Issues and Challenges*, Mongolian Development Research Center, March 2005, Ulan Bator, Mongolia.
20. Balcilar, M., Leonard, J., Khakimzhanov, S. Informatization of Economics: A Case Study, *First International Scientifically-Practical Conference of the Informatization of Society*, Eurasian National University, December 2004, Astana, Kazakhstan.
19. Balcilar, M., Kayacan, M. A Wavelet Analysis of the Stock Price-Volume Relationship, *First International Manas University Conference in Economics*, Kyrgyz-Turkish Manas University, September 2004, Bishkek, Kyrgyzstan.
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17. Balcilar, M., Long Memory and Structural Breaks in Turkish Inflation Rates, *Sixth National Econometrics and Statistics Symposium*, Gazi University, May 2003, Ankara, Turkey.
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13. Balcilar, M., An Analysis of the Macroeconomic Performance, Economic Development, and Governance in the Central Asia Countries, *Symposium on the Socio-Economic Change and Development of the Turkish Republics and Communities after the Soviet Union*, Celal Abad Institute of Management, May 2003, Celal Abad, Kyrgyzstan.
12. Balcilar, M. Persistence in Inflation: Long Memory, Aggregation, or Level Shifts?, *METU International Conference on Economics VI*, Middle East Technical University, September 2002, Ankara, Turkey.
11. Balcilar, M. ve Deliktas, E., A Comparative Analysis of Productivity Growth, Catch-Up, and Convergence in Transition Economies, *METU International Conference on Economics VI*, Middle East Technical University, September 2002, Ankara, Turkey.
10. Balcilar, M., A Multifractal Random Walk Down IMKB, *METU International Conference on Economics V*, Middle East Technical University, September 2001, Ankara, Turkey.
9. Balcilar, M., Testing for Cointegration Rank in Fractionally Integrated Processes, *METU International Conference on Economics V*, Middle East Technical University, September 2001, Ankara, Turkey.
8. Balcilar, M., A Comparison of Fractional Cointegration Tests, *Fifth National Econometrics and Statistics Symposium*, September 2001, Adana, Turkey.
7. Balcilar, M., Bootstrap Based Unit Root Tests Under Structural Change, *METU International Conference on Economics IV*, Middle East Technical University, September 2000, Ankara, Turkey.
6. Balcilar, M., Cokgezen, M., Inefficiency of Labor Use: The Case of Turkish Banking Industry, *METU International Conference on Economics IV*, Middle East Technical University, September 2000, Ankara, Turkey.
5. Balcilar, M., Doğanlar, M., Estimation of Dynamic Import Demand Functions for the Turkish Economy: Cointegration Approach, *Third National Econometrics and Statistics Symposium*, May 1998, Bursa, Turkey.
4. Balcilar, M., Fisunoglu, M., Adjustment Costs and Optimal Taxes in a Dynamic Model of Pollution, *METU International Conference on Economics II*, Middle East Technical University, September 1998, Ankara, Turkey.

3. Balcilar, M., Dulger, F., Ozdemir, Z., Estimation of Dynamic Sectoral Import Demand Functions for Turkey Using Vector Error Correction, *METU International Conference on Economics II*, Middle East Technical University, September 1998, Ankara, Turkey.
2. Balcilar, M., Point Optimal Invariant Tests of a Unit Root in Models with Structural Change, *METU International Conference on Economics*, Middle East Technical University, September 1997, Ankara, Turkey.
1. Balcilar, M., F. Dulger, F., Trends, Cycles, and Volatility in Export Prices: The Case of Turkey, *METU International Conference on Economics*, Middle East Technical University, September 1997, Ankara, Turkey.

Projects, consultancy & grants

2024	Demographic and Geofencing Study: Build Back Better from the Coronavirus Pandemic, Including Long-Term Recovery and Resilience to Future Economic Disasters. Data Analyst and Geofencing Expert. <i>EBCI (Eastern Band of Cherokee Indians) Department of Economic Development</i> . Jointly with Indian Tribe and Marketing Consulting Associates and MCAworks . Grant: \$57,500.
2023-Cont.	Preparation of Risk Reduction Guide for Disasters due to Climate Change in Cultural Heritage Sites of Türkiye and A Model Implementation. Key Expert. <i>European Council and Disaster and Emergency Management Authority of Türkiye</i> . Project Ref: ECHO/SUB/2022/TRACK1/884752/TR/DRAGM/01. Grant: \$310,000.
2023	The National Household Health Survey – “Prevalence of Noncommunicable Disease Risk Factors in Turkey”. Chief Project Consultant and Data Analyst. Project Ref. 2022/EURO/TUR/ANK/0005. <i>World Health Organization and Ministry of Health of Turkey</i> . Grant: \$550,000.
2023	Survey on Health Literacy Level and Related Factors in Turkey. Data Analyst and Reporter. <i>World Bank and Ministry of Health of Turkey</i> . Project Code: SGGM/2023/CS/C.1.1.7.1.A/COS/2. Grant: \$125,000.
2022	Research, Analysis and Capacity Building for Recovery and Peacebuilding in Azerbaijan. Key Economics Expert. <i>The World Bank</i> , Grant No: 1277532, Azerbaijan.
2021	Mitigation Strategies for Transport Service Providers during and after COVID-19. Principal Researcher and Data Analyst. <i>Standing Committee for Economic and Commercial Cooperation of the Organization of Islamic Cooperation (COMCEC)</i> , Turkey.
2021	Counter-measures to Sustain Trade Facilitation During and After COVID-19 Pandemic in the OIC Member Countries. Principal Researcher and Data Analyst. <i>Standing Committee for Economic and Commercial Cooperation of the Organization of Islamic Cooperation (COMCEC)</i> , Turkey.
2020	Improving the Regulatory Framework for Industry, Research and Development (R & D) and Innovation Ecosystem in the OIC Member States. Principal Researcher and Data Analyst. <i>Standing Committee for Economic and Commercial Cooperation of the Organization of</i>

Islamic Cooperation (COMCEC), Turkey.

- 2020-2021 Economic Impact Analysis of the Credit Support Programs in North Cyprus. Project Manager, Principal Researcher and Data Analyst. *Economic Development and Cooperation Office of the Republic of Turkey Nicosia Embassy*, Nicosia, Turkish Republic of North Cyprus. Grant: \$35,000.
- 2019 Job Satisfaction Survey amongst Syrian Health Care Workers at Refugee Health Centres in Turkey. Chief Project Consultant and Data Analyst. *World Health Organization*. Grant: \$26,000.
- 2017-2019 Survey on the Health Status, Services Utilization and Determinants of Health of the Syrian Refugee Population in Turkey. Principal Researcher and Data Analyst. *World Health Organization*. Grant: \$54,000.
Reference: [Online version of the project report](#).
- 2017-2018 Prevalence of Noncommunicable Disease Risk Factors. Chief Project Consultant and Data Analyst. *World Health Organization*. Grant: \$725,000.
Reference: [Online English version of the project report](#) and [Online Turkish version of the project report](#).
- 2017-2018 The Perspectives of Politicians on Tobacco Control: Turkish Experience. Principal Researcher and Data Analyst. *World Health Organization*. Grant: \$5,000.
Reference: DOI: [10.1093/eurpub/cky152](https://doi.org/10.1093/eurpub/cky152).
- 2017 Prevention and Control of Noncommunicable Diseases in Turkey - The Case for Investment. Researcher and Data Analyst. *World Health Organization*. Grant: \$4,000.
Reference: [Online version of the project report](#).
- 2017-2018 Economic Impact Analysis of Grant Programs on TRNC Industry, Tourism, Agriculture Sectors. Project Manager and Data Analyst. *Economic Development and Cooperation Office of the Republic of Turkey Nicosia Embassy*. Grant: \$57,000.
- 2016-2019 Disaster Risk Reduction System for Turkey (ARAS). Programmer, Data Analyst, and Model Developer. *Republic of Turkey Disaster and Emergency Management Authority*. Grant: \$120,000.
See: Ercanoglu M., Balcılar M., Aydın F., Aydemir S., Deveci G., Çintimur B. (2021) ARAS: A Web-Based Landslide Susceptibility and Hazard Mapping System. In: Vilimek V., Wang F., Strom A., Sassa K., Bobrowsky P.T., Takara K. (Eds), *Understanding and Reducing Landslide Disaster Risk*. WLF 2020. ICL Contribution to Landslide Disaster Risk Reduction. pp. 301-307, Springer, Cham. doi: [10.1007/978-3-030-60319-9_33](https://doi.org/10.1007/978-3-030-60319-9_33).
- 2016 Syrian Refugees in Turkey and the Experience of War. Principal Researcher. *The World Bank*, Project No: UPI499993. Grant: \$5,000.
- 2015-2016 Health Status Survey of Syrian Refugees In Turkey. Project Manager and Data Analyst. *World Health Organization, Republic of Turkey Disaster and Emergency Management Authority, and Republic of Turkey Ministry of Health*. Grant: \$10,000.
Reference: [Online English version of the project report](#) and [Online Turkish version of the project report](#).

- 2015-2016 Health and Nutrition Survey on Syrian Children and Woman in Turkey. Project Manager and Data Analyst. *United Nations Children's Fund, World Health Organization, and Republic of Turkey Disaster and Emergency Management Authority*. Grant: \$7,000.
Reference: DOI: 10.13140/RG.2.2.29897.16482.
- 2015-2018 Disaster Risk Modelling System for the Disaster Risk Reduction Plan for Turkey (TARAP). Data Analyst and Model Developer. *Republic of Turkey Disaster and Emergency Management Authority*.
- 2014-2015 Disaster Risk Management System for Turkey (TAF-RISK). Project Coordinator and Model Developer. *Republic of Turkey Disaster and Emergency Management Authority*. Grant: \$400,000.
- 2014-2016 "Reducing Vulnerability and Managing Risk". Thematic Team Member. *The United Nations World Humanitarian Summit*.
- 2014 Syrian Women in Turkey. Project Manager. *Republic of Turkey Disaster and Emergency Management Authority*.
Reference: [Online version of the project report](#).
- 2014 Population Influx From Syria To Turkey 2014. Project Manager. *Republic of Turkey Disaster and Emergency Management Authority*.
- 2014 A Survey Disaster Awareness and Preparedness in Turkey 2014. Project Manager. *Republic of Turkey Disaster and Emergency Management Authority*.
- 2014 Mining Accidents in Turkey and Soma Mine Accident. Project Manager. *Republic of Turkey Disaster and Emergency Management Authority*.
- 2013 Syrian Refugees in Turkey 2013: Field Survey Results. Project Manager. *Republic of Turkey Disaster and Emergency Management Authority*.
- 2013 2011 Van Earthquake from the Response, Recovery, and Socioeconomic Effect Perspective. Project Manager. *Republic of Turkey Disaster and Emergency Management Authority*.
- 2007-2012 A Dictionary of the Econometric Terms. Member of the Committee for Preparing Dictionary of Econometric Terms. *Turkish Language Institute, Turkey*.
- 2008-2011 A System of Labor Demand and Supply Projections at the Industry Level by Occupations. Principal Researcher and Econometric Modeller. *Ministry of Employment and Social Security and Turkish Employment Institute, Turkey*. Grant: \$1,219,000.
- 2008-2010 Electricity Demand Forecasts for North Cyprus. Principal Researcher. *Ministry of Education Research Grant, North Cyprus*. Grant: \$17,000.
- 2008-2009 Poverty, Immigration and Income Distribution in North Cyprus. Researcher. *Ministry of Education Research Grant, North Cyprus*. Grant: \$20,000.
- 2007-2008 A Value at Risk System Development for Turkish Financial Markets. Principal Researcher and Econometric Modeller. *Cukurova University Research Center, Turkey*. Grant: \$5,500.
- 2006-2008 The Measurement of Performance of Industrial Development Regions and Development of New Strategies, Researcher and Data Analyst, *State Planning Organization, Turkey*. Grant:

\$255,000.

- 2004-2005 A Local Content Research on Kazakhstan. Researcher. *Procter & Gamble jointly with KIMEP Research Center*, Almaty, Kazakhstan. Grant: \$27,000.
- 2002-2003 How to Measure Effects of Governance and Corruption. Principal Researcher. *Economic Research Center*, Kyrgyzstan. Grant: \$1,000.
- 1996-1997 Point Optimal Unit Root Tests with Structural Breaks, Principal Researcher, *Cukurova University Research Support Fund*, Grant: \$3,000.
- 1993-1997 Economic Analyses of Drug Treatment Costs and Demand. Researcher. *National Institute on Drug Abuse*, USA. Grant: \$700,000.
- 1988-1990 Consumption Functions and Consumption Behaviors in Adana. Principal Researcher. *Cukurova University Research Support Fund*, Turkey. Grant: \$3,000.

Honors, awards, & recognitions

- 2024 Listed in Stanford/Elsevier's Top 2% Most Influential Scientist Rankings, [doi:10.17632/btchxktzyw.7](https://ideas.repec.org/top/top.person.all10.html).
- 2024 Ranked 75-th by RePEc-IDEAS among Top 5 percent Economists (last 10 years of publications) in the World. <https://ideas.repec.org/top/top.person.all10.html>.
- 2023 Listed in top 1.5% World Economists by RePEc-IDEAS for all years of publications. <https://ideas.repec.org/top/top.person.all.html>.
- 2023 Listed in Stanford/Elsevier's Top 2% Most Influential Scientist Rankings, [doi:10.17632/btchxktzyw.6](https://ideas.repec.org/top/top.person.all10.html).
- 2023 Ranked 83-rd by RePEc-IDEAS among Top 5 percent Economists (last 10 years of publications) in the World. <https://ideas.repec.org/top/top.person.all10.html>.
- 2023 Listed in top 1.5% World Economists by RePEc-IDEAS for all years of publications. <https://ideas.repec.org/top/top.person.all.html>.
- 2023 Highly Cited Paper, Web of Science, Clarivate. In recognition of the contribution made by: Environmental sustainability in the OECD: The power of digitalization, green innovation, renewable energy and financial development. <https://doi.org/10.1016/j.telpol.2023.102568>.
- 2023 Highly Cited Paper, Web of Science, Clarivate. In recognition of the contribution made by: Operational behaviours of multinational corporations, renewable energy transition, and environmental sustainability in Africa: Does the level of natural resource rents matter? <https://doi.org/10.1016/j.resourpol.2023.103344>.
- 2022 Ranked 101-st by RePEc-IDEAS among Top 5 percent Economists (last 10 years of publications) in the World. <https://ideas.repec.org/top/top.person.all10.html>.
- 2022 Listed in Stanford/Elsevier's Top 2% Most Influential Scientist Rankings. [doi:10.17632/btchxktzyw.4](https://ideas.repec.org/top/top.person.all10.html).
- 2022 Listed in top 2% World Economists by RePEc-IDEAS for all years of publications.

<https://ideas.repec.org/top/top.person.all.html>.

- 2022 Economic Research Forum (ERF), Best Paper Award, *ERF 28th Annual Conference*. March 2022, Cairo, Egypt. Paper entitled: Determinants of Financial Connectedness and Risk Transmission among MENA Countries.
- 2022 Top (Ranked 1-st) Researcher Award in Economics, Eastern Mediterranean University, Famagusta, North Cyprus.
- 2022 Wiley Top Cited Article, In recognition of the contribution to the quality of the publisher by: Income inequality and economic growth: A re- examination of theory and evidence.
- 2021 Highly Cited Paper, Web of Science, Clarivate. In recognition of the contribution made by: Crude Oil futures contracts and commodity markets: New evidence from a TVP-VAR extended joint connectedness approach. <https://doi.org/10.1016/j.resourpol.2021.102219>.
- 2021 Listed in Stanford/Elsevier's Top 2% Most Influential Scientist Rankings. [doi:10.17632/btchxktzyw.3](https://doi.org/10.17632/btchxktzyw.3).
- 2021 Ranked 105-th by RePEc-IDEAS among Top 5 percent Economists (last 10 years of publications) in the World. <https://ideas.repec.org/top/top.person.all10.html>.
- 2021 Listed in top 2.5% World Economists by RePEc-IDEAS for all years of publications. <https://ideas.repec.org/top/top.person.all.html>.
- 2021 Top (Ranked 1-st) Researcher Award in Economics, Eastern Mediterranean University, Famagusta, North Cyprus.
- 2020 Listed in Stanford/Elsevier's Top 2% Most Influential Scientist Rankings. PLOS Biology. [doi: 10.1371/journal.pbio.3000918](https://doi.org/10.1371/journal.pbio.3000918).
- 2020 Ranked 160-th by RePEc-IDEAS among Top 5 percent Economists (last 10 years of publications) in the World.
- 2020 Listed in top 2.5% World Economists by RePEc-IDEAS for all years of publications. <https://ideas.repec.org/top/top.person.all.html>.
- 2020 Top (Ranked 1-st) Researcher Award in Economics, Eastern Mediterranean University, Famagusta, North Cyprus.
- 2019 Listed in Stanford/Elsevier's Top 2% Most Influential Scientist Rankings. PLOS Biology. [doi: 10.1371/journal.pbio.3000384](https://doi.org/10.1371/journal.pbio.3000384).
- 2019 Listed in top 5% World Economists by RePEc-IDEAS for all years of publications. <https://ideas.repec.org/top/top.person.all.html>.
- 2019 Ranked 1-st Turkish Economist in a study by M. Çokgezen (2019, *Emerging Markets Finance and Trade*, 55, 133-149. [doi: 10.1080/1540496X.2018.1500891](https://doi.org/10.1080/1540496X.2018.1500891).
- 2019 Top (Ranked 1-st) Researcher Award in Economics, Eastern Mediterranean University, Famagusta, North Cyprus.

- 2018 Listed in top 5% World Economists by RePEc-IDEAS for all years of publications.
<https://ideas.repec.org/top/top.person.all.html>.
- 2018 Top (Ranked 1-st) Researcher Award in Economics, Eastern Mediterranean University, Famagusta, North Cyprus.
- 2017 Elsevier SCOPUS, Highly Cited Research, In recognition of the contribution to the quality of the publisher by: Investor herds and regime-switching: Evidence from Gulf Arab stock markets.
- 2017 Top (Ranked 1-st) Researcher Award in Economics & Business, Eastern Mediterranean University, Famagusta, North Cyprus.
- 2017 Highly Cited Paper, Web of Science, Clarivate. In recognition of the contribution made by: Can volume predict Bitcoin returns and volatility? A quantiles-based approach.
<https://doi.org/10.1016/j.econmod.2017.03.019>.
- 2017 Highly Cited Paper, Web of Science, Clarivate. In recognition of the contribution made by: The role of news-based uncertainty indices in predicting oil markets: a hybrid nonparametric quantile causality method. <https://doi.org/10.1007/s00181-016-1150-0>.
- 2016 Highly Cited Paper, Web of Science, Clarivate. In recognition of the contribution made by: Does uncertainty move the gold price? New evidence from a nonparametric causality-in-quantiles test. <https://doi.org/10.1016/j.resourpol.2016.04.004>.
- 2013 Research Fellow at the **Economic Research Forum (ERF)**, Cairo Egypt.
- 2005 Research Recognition Award, Cukurova University, Adana, Turkey.
- 2004 Best Research and Contribution Award, Manas University, Bishkek, Kyrgyzstan.
- 1996 Dean's List, Wayne State University, Graduate School, Detroit, Michigan, US.
- 1994-1996 Graduate Research Scholarship, Wayne State University, Detroit, Michigan, US.
- 1994-1996 Graduate Scholarship, Wayne State University, Detroit, Michigan, US.
- 1994 Levin Award for the Best Essay in Economics, Wayne State University, Department of Economics, Detroit, Michigan, US.
- 1991 Dean's List, Cleveland State University, Graduate School, Cleveland, Ohio, US.
- 1990-1994 Graduate Scholarship, Cukurova University, Adana, Turkey.

Professional activities

WORKSHOPS, SEMINARS & TRAINING

38. Topics in Applied Nonparametric Econometrics (EKN 835), 15 hours intense course, University of Pretoria, 5–9 September 2022, Pretoria, South Africa.
37. Linear Time Series Analysis, 15 hours training, *Summer Research School in Economics*, Anadolu University, 17–22 July 2022, Eskisehir, Turkey.
36. Topics in Applied Nonparametric Econometrics (EKN 835), 15 hours intense course,

- University of Pretoria, 9–13 September 2019, Pretoria, South Africa.
35. Markow Switching Vector Autoregressive and Threshold Vector Autoregressive Models with MATLAB, 15 hours training, *Advanced Methods for Applied Econometrics*, The Scientific and Technological Research Council of Turkey (TUBITAK) & Cukurova University, 7–10 February 2017, Adana, Turkey.
 34. Linear Time Series Analysis, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 1–12 August 2016, Istanbul, Turkey.
 33. Nonlinear Time Series Analysis: Theory and Practice, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 1–12 August 2016, Istanbul, Turkey.
 32. Linear Time Series Analysis, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 3–7 August 2015, Istanbul, Turkey.
 31. Nonlinear Time Series Analysis: Theory and Practice, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 10–14 August 2015, Istanbul, Turkey.
 30. Nonlinear Time Series Analysis: Theory and Practice, 40 hours training, *Summer School in Economics*, Pamukkale University, 8–12 September 2014, Denizli, Turkey.
 29. Applied Linear Time Series Analysis, 40 hours training, *Summer School in Economics*, Pamukkale University, 26–31 August 2013, Denizli, Turkey.
 28. Applied Linear Time Series Analysis, 40 hours training, *Summer School in Economics*, Pamukkale University, 10–21 June 2013, Denizli, Turkey.
 27. Nonlinear Time Series Models and Structural Change in Macroeconomics (EKN 823 Part II), 20 hours course, University of Pretoria, 27 Jul–31 August 2012, Pretoria, South Africa.
 26. Financial Econometrics, 20 hours training, *Summer School in Economics*, Pamukkale University, 9–13 July 2012, Denizli, Turkey.
 25. Nonlinear Time Series Analysis: Theory and Practice, 60 hours training, *Summer School in Economics*, Pamukkale University, 9–20 July 2012, Denizli, Turkey.
 24. Financial Econometrics, 40 hours training *Eskisehir Osman Gazi University*, 26–31 March 2012, Eskisehir, Turkey.
 23. Financial Econometrics, 60 hours training *İzmir Katip Çelebi University–Eastern Mediterranean University Joint Program*, 22–29 January 2012, İzmir, Turkey.
 22. Fractionally Integrated and Cointegrated Time Series, 20 hours training, *Summer School in Economics*, Pamukkale University, 25–29 July 2011, Denizli, Turkey.
 21. Econometrics Using R, 20 hours training, *Summer School in Economics*, Pamukkale University, 11–15 July 2011, Denizli, Turkey.

20. Nonlinear Time Series Analysis: Theory and Practice, 60 hours training, *Summer School in Economics*, Pamukkale University, 18–29 July 2011, Denizli, Turkey.
19. Modeling and forecasting with Nonlinear Time Series Models, 60 hours training, *Summer School in Economics*, Pamukkale University, 26 July–7 August 2010, Denizli, Turkey.
18. Forecasting with Long-Memory Time Series Models, 20 hours training, *Summer School in Economics*, Pamukkale University, 2–7 August 2010, Denizli, Turkey.
17. Modeling and Forecasting with Nonlinear Time Series Models, 40 hours training, *Summer School in Economics*, Pamukkale University, 3–8 August 2009, Denizli, Turkey.
16. Forecasting with Long-Memory Time Series Models, 20 hours training, *Summer School in Economics*, Pamukkale University, 3–8 August 2009, Denizli, Turkey.
15. Forecasting Financial Time Series, 20 hours training, Risk Management Unit, Ziraat Bank, 22–28 June 2009, Ankara, Turkey.
14. Household Income Distribution, Poverty Measurement and Socioeconomic Conditions, 2-day workshop, Department of Economics, Eastern Mediterranean University, 20–21 May 2009, Famagusta, Northern Cyprus.
13. Applied Financial Data Analysis and Forecasting, 20 hours training for risk specialist at Risk Management Department of Ziraat Bank, 7–10 January 2009, Ankara, Turkey.
12. Does the futures market tend to lead the spot market for crude oil? Evidence from time varying Granger causality tests, *Workshop on Methods and Applications for Macroeconomics and Finance*, Ege University, Department of Economics, 16 hours workshop, 9–11 November 2009, Izmir, Turkey.
11. Nonlinear Financial Time Series Modeling Using RSTAR, *Focus Group Study*, Technische Universität Dortmund, 13 August 2008, Dortmund, Germany.
10. Modeling Financial Time Series using Long-memory and Non-linear Models, 40 hours training, *Summer School in Economics*, Pamukkale University, 4–9 August 2008, Denizli, Turkey.
9. Financial Econometrics, 40 hours training, Continuing Education Research and Application Center, TOBB University of Economics and Technology, 14–20 August 2008, Ankara, Turkey.
8. Applied Forecasting Techniques for Risk Managers, 30 hours training for risk specialist at Risk Management Department of Ziraat Bank, 24–28 June 2008, Ankara, Turkey.
7. Applications in Translog Production and Cost Function, 3 hours seminar, Department of Economics, Eastern Mediterranean University, 13 December 2007, Famagusta, North Cyprus.

6. Estimating Efficiency Using Data Envelopment Analysis and Stochastic Frontiers, 2 hours seminar, Department of Economics, Eastern Mediterranean University, 19 October 2007, Famagusta, North Cyprus.
5. Analyzing Financial and Macroeconomic Time Series Using Nonlinear and Long-memory Time Series, 20 hours training, Eastern Mediterranean University, 21–23 May 2007, Famagusta, North Cyprus.
4. Analyzing Exchange Rates Using Nonlinear Models, 3 hours seminar, Department of Economics, Ege University, 9 April 2006, Izmir, Turkey.
3. How to Estimate Efficiency?, 2 hours seminar, Kazakhstan Institute of Economics, Business, and Strategic Planning, 28 October 2004, Almaty, Kazakhstan.
2. Modeling Nonstationarity: Applications in Finance and Economics, 4 hours training, Manas University, 4 May 2002, Bishkek, Kyrgyzstan.
1. Nonstationary Time Series Analysis, 30 hours training, Cukurova University, 20–30 April 1998, Adana, Turkey.

CONFERENCE, SYMPOSIUM & WORKSHOP

23. Member of the Scientific Board, AVECON 2024: *16th International Conference on Eurasian Economies*, 26–28 June 2024, Bishkek, Kyrgyzstan.
22. Member of the Scientific Board, AVECON 2023: *15th International Conference on Eurasian Economies*, 19–20 September 2023, İzmir, Türkiye.
21. Member of the Scientific Board, AVECON 2022: *14th International Conference on Eurasian Economies*, 20–22 September 2022, Baku, Azerbaijan.
20. Member of the Scientific Board, AVECON 2021: *13th International Conference on Eurasian Economies*, 24–25 August 2021, İstanbul, Türkiye.
19. Member of the Scientific Board, AVECON 2020: *12th International Conference on Eurasian Economies*, 2–4 September 2020, Baku, Azerbaijan.
18. Co-Chair, AVECON 2019: *11th International Conference on Eurasian Economies*, 11–13 June 2019, Famagusta, Turkish Republic of North Cyprus.
17. Vice-Chair, ICCE-2018: *16th International Conference on Clean Energy*, 11–13 May 2018, Famagusta, Turkish Republic of North Cyprus.
16. Chair, ICNTEF 2015: *International Conference on New Trends in Econometrics and Finance*, 24–28 March 2015, Dubai, United Arab Emirates.
15. Co-Chair, SSEM EuroConference 2013: *International Conference of the Society for the Study of the Emerging Markets on Economics, Business and Finance*, Eastern Mediterranean University, 11–13 May 2013, Famagusta, North Cyprus.

14. Chair, ICEOS-2012: *13th International Conference on Econometrics, Operations Research and Statistics*, Eastern Mediterranean University, 24–26 May 2012, Famagusta, North Cyprus.
13. Member of the Scientific Committee, *3rd International Conference on Eurasian Economies*, Beykent University & Turan University, 11–13 October 2012, Almaty, Kazakhstan.
12. Organizer (with Hasan Gungor), *2nd Workshop in Macroeconomics and Financial Economics: Financial Crises, Macroeconomic Policies, and Central Banking*, Eastern Mediterranean University, 12–13 May 2011, Famagusta, North Cyprus.
11. Member of the Scientific Committee, *2nd International Conference on Eurasian Economies*, Beykent University & Kyrgyz-Turkish Manas University, 12–14 October 2011, Bishkek, Kyrgyzstan.
10. Organizer (with Hasan Gungor), *Macroeconomics and Financial Economics Workshop: Recent Developments in Theory and Empirical Modelling*, Eastern Mediterranean University, 8–9 October 2009, Famagusta, North Cyprus.
9. Organizer (with Hasan Gungor), *Conference: The Policy Options of the Turkish Cypriot Economy under Global Economic Crises*, Eastern Mediterranean University, 26–27 October 2009, Famagusta, North Cyprus.
8. Member of the Scientific Committee, *International Conference on Banking and Finance Perspectives*, Eastern Mediterranean University, 13–15 April 2011, Famagusta, North Cyprus.
7. Member of the Scientific Committee, *International Conference on Eurasian Economies*, Beykent University, 4–5 November 2010, Istanbul, Turkey.
6. Member of the Scientific Committee, *11th National Econometrics and Statistics Symposium*, Ataturk University, May 2010, Erzurum, Turkey.
5. Major organizer and member of the Organizing and Scientific committees, *First International Manas University Conference in Economics*, September 2004, Manas University, Bishkek, Kyrgyzstan.
4. Major organizer and member of the Organizing and Scientific committees, *First International Conference on the Transition Countries on the Way of Transforming Into Market Economies*, Manas University, December 2003, Bishkek, Kyrgyzstan.
3. Member of the Organizing and Scientific committees, *First International Conference in Public Finance: Fiscal Policies in Transitional Economies*, Manas University, April 2004, Bishkek, Kyrgyzstan.
2. Member of the Organizing and Scientific committees, *Manas University International Conference on Globalization and Transition Economies*, Manas University, May 2002, Bishkek, Kyrgyzstan.

1. Major organizer and member of the Organizing and Scientific committees, *Sixth National Econometrics and Statistics Symposium*, Cukurova University, September 2001, Adana, Turkey.

Thesis supervision

PH.D. THESIS

30. Najiba Morrar, Ph.D. Thesis, *Women Higher Education and Sustainable Development Goals: A Case Study of Palestine*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2024).
29. Fatma Türüç, Ph.D. Thesis, *Gender and Energy Poverty*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2024).
28. Büşra Ağan, Ph.D. Thesis, *Connectedness of Commodity Markets: A Dynamic Study on the Effects of Market Crashes and Sentiments*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2023).
27. Rasool Dehghanzadeh Shahabad, Ph.D. Thesis, *Economic Policy Uncertainty, Connectedness, and Emerging Markets*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2023).
26. Selin Karlılar, Ph.D. Thesis, *The Role of Renewable Energy, Innovation, and Digitization on the Environmental Footprint: Empirical Evidence from National and Cross-national Studies*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2023).
25. Canan Gülcan, Ph.D. Thesis, *Evaluation of Health Status among Syrian Refugees living in Turkey: The effects of Health Literacy, and Socioeconomic Factors*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2022).
24. Amirreza Attarzadeh, Ph.D. Thesis, *The Dynamic Connectedness of Clean Energy and Financial Markets*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2022).
23. Daberechi Chikezie Ekwueme, Ph.D. Thesis, *Financial Development, Energy Use, Trade Receptivity, and Carbon Emission of Sub-saharan Africa and MENA Countries*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2022).
22. Berkan Tokar, Ph.D. Thesis, *The Impact of Foreign Aid on Economic Development and the Role of the Institutional Quality*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2021).
21. Sera Şanlı, Ph.D. Thesis, Co-supervisor, *Nonparametric and quantile regression approaches: Energy and commodity market links*, Institute of Social Sciences, Cukurova University, Adana, Turkey, (2020).

20. Evrim Tören, Ph.D. Thesis, *Dynamic Linkages among the Real Economic Activity, Asset Prices and Macroeconomic Policy in Turkey*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2020).
19. Shar Aghazadeh, Ph.D. Thesis, *On the Determinants and Effect of Employment: An Empirical Assessment of Tourism and Innovation*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2020).
18. Gizem Uzuner, Ph.D. Thesis, *On the Dynamic Linkages among Economic Policy Uncertainty, Land Use and Housing Prices: Evidence from Time Series and Panel Data Models*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2020).
17. George Ike, Ph.D. Thesis, *Environmental Effects of Fiscal Policy, Oil Production and Renewable Energy in the Presence of the Environmental Kuznets Curve*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2020).
16. Festus Victor Bekun, Ph.D. Thesis, *The Role of Renewable and Non-Renewable Energy on Economic Growth and the Environment*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2019).
15. Ojonugwa Usman, Ph.D. Thesis, *Exchange Rate and Oil Price Pass-through in the Emerging Market Economies*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2019).
14. Firat Emir, Ph.D. Thesis, *Risk Spillover and Macroeconomic Interactions Across Energy, Stock and Agricultural Market*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2019).
13. Andrew Adewale Alola, Ph.D. Thesis, *The Connectedness of the Housing Market, Energy Market and Agricultural Commodities in the United States*, Graduate Institute, Famagusta, North Cyprus, (2019).
12. Godwin Oluseye Olasehinde Williams, Ph.D. Thesis, *Economic Analysis of Insurance, Uncertainty and Economic Growth*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2018).
11. Seyi Saint Akadiri, Ph.D. Thesis, *Partisan Conflict, Real Per Capita GDP and Inequality in the United States*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2018).
10. Elif Akay, Ph.D. Thesis, *Risk Spillover and Macroeconomic Interactions Across Energy, Stock and Agricultural Market*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2018).
9. Mehmet Candemir, Ph.D. Thesis, *Risk Spillover and Macroeconomic Interactions Across Energy, Stock and Agricultural Market*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2017).

8. Pejman Bahramian, Ph.D., Ph.D. Thesis, *Forecasting Energy Prices Using Data Mining Methods*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2017).
7. Bahman Kashi, Ph.D. Thesis, Co-supervisor, *Risk Management of Investments in the Electricity Sector*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2015).
6. Nwin-Anefo Fru Asaba, Ph.D. Thesis, *Information Transmission, Nonlinearity and Volatility Behavior of Precious Metals in the Presence of Oil and Exchange Rate Shocks*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2014).
5. Mostafa Shahee, Ph.D. Thesis, *Income Distribution and Business Cycle*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2014).
4. Mary Oluwatoyin Agboola, Ph.D. Thesis, *Impact of Food Availability on Economic Growth and Child Mortality: A Cross Country Comparative Analysis*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2014).
3. Hesam Aldin Shahrivar, Ph.D. Thesis, *On Accuracy, Consistency and Predictive Performance of Credit, Country Risk and Bond Ratings: A Comparative Analysis*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2013).
2. Nezahat Küçük, Ph.D. Thesis, *Impact of Information and Communication Technology on Gender Inequality and Development*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2013).
1. Zeynel A. Özdemir, Ph.D. Thesis, *Fractional Integration and Cointegration with Some Applications on Turkey*, Institute of Social Sciences, Cukurova University, Turkey, (2002). (supervisor, 7/1999-9/2001).

MASTER THESIS

14. Mümine Özçelik, *The Impact of US Monetary Policy Shocks on Exchange Rate Risk: Connectedness of Emerging Markets*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2023).
13. Ayodeji Samson Fatigun, MSc Thesis, *The Impact of the Presence of Natural Gas Pipeline on House Prices: Evidence from 5 Northern State in the US*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2019).
12. Gizem Uzuner, MSc Thesis, *Common Cycles in Commodity Prices*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2016).
11. Alice Kauna Maigida, MSc Thesis, *A Panel Data Analysis on Energy Consumption and its Impact on Economic Growth: Empirical Evidence from Twenty Developing Economies*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2015).

10. Firat Emir, MSc Thesis, *Selecting Renewable Energy Sources for Small Islands Using Analytical Hierarchy Process (AHP)*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2014).
9. Pejman Bahramian, MSc Thesis, *Forecasting US Home Prices with Artificial Neural Networks and Fuzzy Methods: Combination and Single Forecasts*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2013).
8. Zahra Alsadat Ahanchian, MSc Thesis, *House Price Effect on Consumption: an MST-VAR Approach for Three OECD Countries*, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2013).
7. Nesrin Dag, MSc Thesis, *Estimation of Production Technology for Turkish Textile Industry*, Graduate Institute, Famagusta, North Cyprus, (2010).
6. Zhanat Jalilova, MSc Thesis, *Currency Substitution in Transition Economies*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2010).
5. Ulviya Hajiyeva, MSc Thesis, *Real Exchange Rate Misalignments: Panel Data Analysis*, Eastern Mediterranean University, Graduate Institute, Famagusta, North Cyprus, (2010).
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Software development

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Balcilar, M., LONGMEM: A Library for Estimating and Simulating Long Memory Models, (2003). <http://www.mbalcilar.net/longmem>.

Computing skills

Long time experience in processing and analyzing large data sets. During December 1994 – May 1996, I worked as a researcher and programmer for analyzing millions of observations of health insurance/treatment data at Wayne State University. Major programming was done SAS software. Some analyses were done in LIMDEP, RATS, or FORTRAN.

Good programming skills in FORTRAN and C/C++, Visual C++, and Visual Basic. I have developed several user interface using Microsoft Visual tools.

Long time user and programmer in Esri ArcGIS, SQL, and Microsoft Access database systems.

Package Developer for S-Plus and R Statistical Programming Environments. I have several packages mostly specialized in financial time series data analysis. Packages are distributed publicly by the organization developing the R software.

Advanced programmer in Esri ArcPy, GAUSS, Matlab, and RATS data analysis software languages.

High level knowledge and programming skills in SPSS, EViews, and XLispstat statistics/econometrics software and languages.

A system operator level user of Unix/Linux, MAC OS X, as well as Windows operating systems.

Membership

American Economic Association, Western Economic Association International, Middle East Economic Association, Economic Research Forum, The Society for the Study of Emerging Markets, Turkish Econometric Association

Editorial & referee

Referee: Journal of Money Credit & Banking, Empirical Economics, Journal of Applied Economics, International Review of Economics and Finance, Quarterly Review of Economics, Borsa Istanbul Review, Resources Policy, Energy, The Energy Journal, Economic Systems, Economics, Energy Economics, Physica A, Economic Modelling, Finance Research Letters, International Journal of Finance & Economics, South African Journal of Economics, Quantitate Finance, Energy Economics, African Development Review, Journal of Applied Economics, Journal of African Economies, Review of Middle East Economics and Finance, International Journal of Economic Perspectives, Emerging Markets Finance and Trade, Manas University Social Science Journal, Ege Academic Review, Çukurova University Social Science Journal, Cukurova University FEAS Journal, Selcuk FEAS Journal,

Languages

TURKISH: native.

ENGLISH: reading (fluent), writing (fluent), speaking (fluent).

KYRGYZ: reading (intermediate), writing (introductory), speaking (introductory).

KAZAKH: reading (intermediate), writing (introductory), speaking (introductory).

RUSSIAN: reading (intermediate), writing (introductory), speaking (introductory).

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Available upon request.