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Date of Birth: 1 January 1965

Citizenship: Turkey, Turkish Republic of Northern Cyprus

## Education

- 1996 PH.D., Economics (Econometrics), 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.

## Current position

*Professor & Chair*, Eastern Mediterranean University, Faculty of Business and Economics, Department of Economics, Famagusta, Turkish Republic of Northern Cyprus.

*Extraordinary Professor*, University of Pretoria, Pretoria, South Africa.

*Affiliated Professor*, Montpellier Business School, Montpellier, France.

*Research Fellow*, Economic Research Forum, Cairo, Egypt.

## Areas of specialization

Time Series Analysis, Econometrics, Macroeconomics, Financial Economics, Risk Analysis, Applied Statistics, Field Survey.

## Areas of interest

Nonlinear Time Series Analysis, Nonstationary Time Series Analysis, Nonparametric Econometrics, Long-memory Time Series Models, Structural Change and Time Varying Coefficient Models, Financial Econometrics, Computational Econometrics, Dynamic Stochastic General Equilibrium Models, Macroeconomics, Transition Economies, Risk Management, Field Surveys, Disaster Risk Modeling.

## Classes taught

*Graduate:* Risk Management, Econometrics, Financial Econometrics, Time Series Analysis, Statistics, Mathematical Economics, Financial Economics, Investment Management, Macroeconomics, Monetary Economics, Development Economics, Economic Growth.

*Undergraduate:* Econometrics, Time Series Analysis, Mathematical Economics, Statistics, Macroeconomics, Financial Economics, Monetary Economics, Growth and Development Economics, Introduction to Economics.

## Experience

- 1/2017-Present *Affiliated Professor*, Montpellier Business School, Montpellier. France.
- 7/2014-Present *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 Presidency for Disaster and Emergency Management, Ankara, Turkey.
- 5/2011-Present *Professor*, Department of Economics, Eastern Mediterranean University, Famagusta, Northern Cyprus.
- 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, Northern 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.
- 4/1999-7/2000 *Lecturer*, legal obligatory service, Balikesir Technical School of Army, The Turkish Army, Balikesir, 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.

## Honors & awards

- 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 Sate University, Detroit, Michigan, US.
- 1994-1996 Graduate Scholarship, Wayne Sate 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.

## Administrative appointments

- 2011d-Present *Chair*, Department of Economics, Eastern Mediterranean University, Northern Cyprus.
- 2011c-2016 *Member of the Board of Directors, Famagusta Technology Development Zone (Famagusta Technopark)*, Famagusta, Northern Cyprus.
- 2011b-2016 *Member of the Scientific Advisory Board*, Eastern Mediterranean University, Northern Cyprus.
- 2011a-2016 *Member of the University Disciplinary Committee*, Eastern Mediterranean University, Northern Cyprus.
- 2007-2012 *Ph.D. Program Coordinator*, Department of Economics, Eastern Mediterranean University, Northern Cyprus.
- 2007c *Acting Dean*, Faculty of Business and Economics, Eastern Mediterranean University, Northern Cyprus.
- 2007b *Member of the Seminar Committee*, Department of Economics, Eastern Mediterranean University, Northern Cyprus.
- 2007a *Member of the Graduate Committee*, Department of Economics, Eastern Mediterranean University, Northern 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 *Member of the College Council*, College of Economics and Business Administration, Manas University, Bishkek, Kyrgyzstan.
- 2000-2001 *Associate Chair*, Department of Econometrics, Cukurova University, Adana, Turkey.
- 1997-1999, 2000-2001 *Chair, Statistics Division*, Department of Econometrics, Cukurova University, Adana, Turkey.

## Research & publication

### PAPERS PUBLISHED IN REFEREED JOURNALS

Balcilar, M., Gupta, R., Kim, W. J., Kyei, C. The role of economic policy uncertainties in predicting stock returns and their volatility for Hong Kong, Malaysia and South Korea, *International Review of Economics & Finance*, 59, 150-163, (2019).

(DOI: [10.1016/j.iref.2018.08.016](https://doi.org/10.1016/j.iref.2018.08.016)).

Balcilar, M., Akadiri, S., Gupta, R., Miller, S. Partisan Conflict and Income Inequality in the United States: A Nonparametric Causality-in-Quantiles Approach. *Social Indicators Research*, 142, 65-82, (2019). (DOI: [10.1007/s11205-018-1906-3](https://doi.org/10.1007/s11205-018-1906-3)).

Nasr, A. B., Balcilar, M., Akadiri, S., Gupta, R. Kuznets Curve for the US: A Reconsideration Using Cosummability. *Social Indicators Research*, 142, issue 2, 827-843, (2019). (DOI: [10.1007/s11205-018-1940-1](https://doi.org/10.1007/s11205-018-1940-1)).

Tiwari, A., Mukherjee, Z., Gupta, R., Balcilar, M. A wavelet analysis of the relationship between oil and natural gas prices. *Resources Policy*, 60, 118-124, (2019). (DOI: [10.1016/j.resourpol.2018.11.020](https://doi.org/10.1016/j.resourpol.2018.11.020)).

Balcilar, M., Ozdemir, Z.A. The nexus between the oil price and its volatility risk in a stochastic volatility in the mean model with time-varying parameters, *Resources Policy*, 61, 572-584, (2019). (DOI: [10.1016/j.resourpol.2018.07.001](https://doi.org/10.1016/j.resourpol.2018.07.001)).

- Balcilar, M., Bekun, F. V., Uzuner, G. Revisiting the economic growth and electricity consumption nexus in Pakistan. *Environmental Science and Pollution Research*, 26, 12158-12170, (2019). (DOI: [10.1007/s11356-019-04598-0](https://doi.org/10.1007/s11356-019-04598-0)).
- Emir, F., Balcilar, M., Shahbaz, M. Inequality in carbon intensity in EU-28: analysis based on club convergence. *Environmental Science and Pollution Research*, 26, 3308-3319, (2019). (DOI: [10.1007/s11356-018-3858-1](https://doi.org/10.1007/s11356-018-3858-1)).
- Gungor, H., Balcilar, M., Olasehinde-Williams, G. The empirical relationship between financial development and foreign exchange regimes: Did global financial crisis of 2007-2009 change regime preferences? *European Journal Of Sustainable Development*, 8, I 324-338, (2019). (DOI: [10.14207/ejsd.2019.v8n1p324](https://doi.org/10.14207/ejsd.2019.v8n1p324)).
- Balcilar, M., Gungor, H., Olasehinde-Williams, G. On the Impact of Globalization on Financial Development: A Multi-country Panel Study. *European Journal Of Sustainable Development*, 8, 350-364, (2018). (DOI: [10.14207/ejsd.2019.v8n1p350](https://doi.org/10.14207/ejsd.2019.v8n1p350)).
- Balcilar, M., Katzke, N., Gupta, R. Date-stamping US housing market explosivity, *Economics - The Open-Access, Open-Assessment E-Journal*, 12, 1-33, (2018). (DOI: [10.5018/economics-ejournal.ja.2018-18](https://doi.org/10.5018/economics-ejournal.ja.2018-18)).
- Balcilar, M., Uwilingiye, J., Gupta, R. Dynamic Relationship Between Oil Price And Inflation In South Africa. *Journal of Developing Areas*, 52, issue 2, p. 73-93, (2018). (DOI: [10.1353/jda.2018.0023](https://doi.org/10.1353/jda.2018.0023)).
- Balcilar, M., Gupta, R., Lee, C.-C., Olasehinde-Williams, G. The synergistic effect of insurance and banking sector activities on economic growth in Africa, *Economic Systems*, 42, 637-648, (2018). (DOI: [10.1016/j.ecosys.2018.08.002](https://doi.org/10.1016/j.ecosys.2018.08.002)).
- Balcilar, M., Gupta, R., Nguyen, D.K., Wohar, M.E. Causal effects of the United States and Japan on Pacific-Rim stock markets: nonparametric quantile causality approach. *Applied Economics*, 50, 5712-5727, (2018). (DOI: [10.1080/00036846.2018.1488062](https://doi.org/10.1080/00036846.2018.1488062)).
- Aye, G.C., Balcilar, M., Demirer, R., Gupta, R. Firm-level political risk and asymmetric volatility. *Journal of Economic Asymmetries*, 18, art. no. e00110, (2018). (DOI: [10.1016/j.jeca.2018.e00110](https://doi.org/10.1016/j.jeca.2018.e00110)).
- Balcilar, M., Ozdemir, Z.A., Ozdemir, H., Shahbaz, M. The renewable energy consumption and growth in the G-7 countries: Evidence from historical decomposition method. *Renewable Energy*, 126, 594-604, (2018). (DOI: [10.1016/j.renene.2018.03.066](https://doi.org/10.1016/j.renene.2018.03.066)).
- Ozcebe, H., Erguder, T., Balcilar, M., Ursu, P., Reeves, A., Stuckler, D., Snell, A., Galea, G., Mikkelsen, B., Mauer-Stender, K. The perspectives of politicians on tobacco control in Turkey. *European Journal of Public Health*, 28, 17-21, (2018). (DOI: [10.1093/eurpub/cky152](https://doi.org/10.1093/eurpub/cky152)).
- Balcilar, M., Chang, S., Gupta, R., Miller, S.M. The relationship between the inflation rate and inequality across U.S. states: a semiparametric approach *Quality and Quantity*, 52, 2413-2425, (2018). (DOI: [10.1007/s11135-017-0676-3](https://doi.org/10.1007/s11135-017-0676-3)).

- Andre, C., Balcilar, M., Chang, T., Gil-Alana, L.A., Gupta, R. Current account sustainability in G7 and BRICS: Evidence from a long-memory model with structural breaks. *Journal of International Trade and Economic Development*, 27, 638-654, (2018). (DOI: [10.1080/09638199.2017.1410853](https://doi.org/10.1080/09638199.2017.1410853))
- Balcilar, M., Hammoudeh, S., Toparli, E.A. On the risk spillover across the oil market, stock market, and the oil related CDS sectors: A volatility impulse response approach. *Energy Economics*, 74, 813-827, (2018). (DOI: [10.1016/j.eneco.2018.07.027](https://doi.org/10.1016/j.eneco.2018.07.027))
- Balcilar, M., Gupta, R., van Eyden, R., Thompson, K., Majumdar, A. Comparing the forecasting ability of financial conditions indices: The case of South Africa. *Quarterly Review of Economics and Finance*, 69, 245-259, (2018). (DOI: [10.1016/j.qref.2018.03.012](https://doi.org/10.1016/j.qref.2018.03.012))
- Balcilar, M., Bonato, M., Demirer, R., Gupta, R. Geopolitical risks and stock market dynamics of the BRICS. *Economic Systems*, 42, 295-306, (2018). (DOI: [10.1016/j.ecosys.2017.05.008](https://doi.org/10.1016/j.ecosys.2017.05.008))
- Bahloul, W., Balcilar, M., Cunado, J., Gupta, R. The role of economic and financial uncertainties in predicting commodity futures returns and volatility: Evidence from a non-parametric causality-in-quantiles test. *Journal of Multinational Financial Management*, 45, 52-71, (2018). (DOI: [10.1016/j.mulfin.2018.04.002](https://doi.org/10.1016/j.mulfin.2018.04.002))
- Balcilar, M., Ozdemir, Z.A., Shahbaz, M., Gunes, S. Does inflation cause gold market price changes? evidence on the G7 countries from the tests of nonparametric quantile causality in mean and variance. *Applied Economics*, 50, 1891-1909, (2018). (DOI: [10.1080/00036846.2017.1380290](https://doi.org/10.1080/00036846.2017.1380290))
- Balcilar, M., Demirer, R., Gupta, R., Wohar, M.E. Differences of opinion and stock market volatility: evidence from a nonparametric causality-in-quantiles approach. *Journal of Economics and Finance*, 42, 339-351, (2018). (DOI: [10.1007/s12197-017-9404-z](https://doi.org/10.1007/s12197-017-9404-z))
- Balcilar, M., Gupta, R., Pierdzioch, C., Wohar, M.E. Terror attacks and stock-market fluctuations: evidence based on a nonparametric causality-in-quantiles test for the G7 countries. *European Journal of Finance*, 24, 333-346, (2018). (DOI: [10.1080/1351847X.2016.1239586](https://doi.org/10.1080/1351847X.2016.1239586))
- Babalos, V., Balcilar, M., Loate, T.B., Chisoro, S. Did Baltic stock markets offer diversification benefits during the recent financial turmoil? Novel evidence from a nonparametric causality-in-quantiles test. *Empirica*, 45, 29-47, (2018). (DOI: [10.1007/s10663-016-9344-4](https://doi.org/10.1007/s10663-016-9344-4))
- Balcilar, M., Nugent, J.B. The migration of fear: An analysis of migration choices of Syrian refugees. *Quarterly Review of Economics and Finance*, Article in Press, (2018). (DOI: [10.1016/j.qref.2018.09.007](https://doi.org/10.1016/j.qref.2018.09.007))
- Balcilar, M., Ozdemir, Z.A., Shahbaz, M. On the time-varying links between oil and gold: New insights from the rolling and recursive rolling approaches. *International Journal of Finance and Economics*, Article in Press, (2018). (DOI: [10.1002/ijfe.1704](https://doi.org/10.1002/ijfe.1704))
- Balcilar, M., Gupta, R., Kyei, C. Predicting stock returns and volatility with investor senti-

- ment indices: A reconsideration using a nonparametric causality-in-quantiles test *Bulletin of Economic Research*, 70, 74-87, (2018). (DOI: [10.1111/boer.12119](https://doi.org/10.1111/boer.12119))
- Balcilar, M., Gupta, R., Sousa, R.M., Wohar, M.E. Wealth-to-income ratio and stock market movements: Evidence from a nonparametric causality test. *International Review of Finance*, 18, 495-506, (2018). (DOI: [10.1111/irfi.12136](https://doi.org/10.1111/irfi.12136))
- Shahzad, S.J.H., Mensi, W., Hammoudeh, S., Balcilar, M., Shahbaz, M. Distribution specific dependence and causality between industry-level U.S. credit and stock markets. *Journal of International Financial Markets, Institutions and Money*, 52, 114-133, (2018). (DOI: [10.1016/j.intfin.2017.09.025](https://doi.org/10.1016/j.intfin.2017.09.025))
- Suleman, T., Gupta, R., Balcilar, M. Does country risks predict stock returns and volatility? Evidence from a nonparametric approach. *Research in International Business and Finance*, 42, 1173-1195, (2017). (DOI: [10.1016/j.ribaf.2017.07.055](https://doi.org/10.1016/j.ribaf.2017.07.055))
- Balcilar, M., Bekiros, S., Gupta, R. The role of news-based uncertainty indices in predicting oil markets: a hybrid nonparametric quantile causality method. *Empirical Economics*, 53 (3), 879-889, (2017). (DOI: [10.1007/s00181-016-1150-0](https://doi.org/10.1007/s00181-016-1150-0))
- Balcilar, M., Demirer, R., Gupta, R., van Eyden, R. The impact of US policy uncertainty on the monetary effectiveness in the Euro area. *Journal of Policy Modeling*, 39 (6), 1052-1064, (2017). (DOI: [10.1016/j.jpolmod.2017.09.002](https://doi.org/10.1016/j.jpolmod.2017.09.002))
- Balcilar, M., Demirer, R., Gupta, R. Do sustainable stocks offer diversification benefits for conventional portfolios? An empirical analysis of risk spillovers and dynamic correlations. *Sustainability*, 9 (10), art. no. 799, (2017). (DOI: [10.3390/su910799](https://doi.org/10.3390/su910799))
- Balcilar, M., Gupta, R., Pierdzioch, C. On exchange-rate movements and gold-price fluctuations: evidence for gold-producing countries from a nonparametric causality-in-quantiles test. *International Economics and Economic Policy*, 14 (4), 691-700, (2017). (DOI: [10.1007/s10368-016-0357-z](https://doi.org/10.1007/s10368-016-0357-z))
- Akinsomi, O., Balcilar, M., Demirer, R., Gupta, R. The effect of gold market speculation on REIT returns in South Africa: a behavioral perspective. *Journal of Economics and Finance*, 41 (4), 774-793, (2017). (DOI: [10.1007/s12197-016-9381-7](https://doi.org/10.1007/s12197-016-9381-7))
- Shahzad, S.J.H., Raza, N., Balcilar, M., Ali, S., Shahbaz, M. Can economic policy uncertainty and investors sentiment predict commodities returns and volatility? *Resources Policy*, 53, 208-218, (2017). (DOI: [10.1016/j.resourpol.2017.06.010](https://doi.org/10.1016/j.resourpol.2017.06.010))
- Balcilar, M., Gupta, R., Kotzé, K. Forecasting South African macroeconomic variables with a Markov-switching small open-economy dynamic stochastic general equilibrium model. *Empirical Economics*, 53 (1), 117-135, (2017). (DOI: [10.1007/s00181-016-1157-6](https://doi.org/10.1007/s00181-016-1157-6))
- Balcilar, M., Bouri, E., Gupta, R., Roubaud, D. Can volume predict Bitcoin returns and volatility? A quantiles-based approach. *Economic Modelling*, 64, 74-81, (2017). (DOI: [10.1016/j.econmod.2017.03.019](https://doi.org/10.1016/j.econmod.2017.03.019))
- Balcilar, M., Cakan, E., Gupta, R. Does US news impact Asian emerging markets? Evi-

dence from nonparametric causality-in-quantiles test. *North American Journal of Economics and Finance*, 41, 32-43, (2017). (DOI: [10.1016/j.najef.2017.03.009](https://doi.org/10.1016/j.najef.2017.03.009))

Balcilar, M., Gupta, R., Pierdzioch, C., Wohar, M.E. Do terror attacks affect the dollar-pound exchange rate? A nonparametric causality-in-quantiles analysis. *North American Journal of Economics and Finance*, 41, 44-56, (2017). (DOI: [10.1016/j.najef.2017.03.010](https://doi.org/10.1016/j.najef.2017.03.010))

Shahbaz, Muhammad; Balcilar, Mehmet; Ozdemir, Zeynel Abidin. Does oil predict gold? A nonparametric causality-in-quantiles approach, *Resources Policy*, 52, 257-265, (2017). (doi: [10.1016/j.resourpol.2017.03.004](https://doi.org/10.1016/j.resourpol.2017.03.004)).

Balcilar, Mehmet; Kutan, Ali M.; Yaya, Mehmet E. Financial integration in small Islands: The case of Cyprus. *International Review Of Economics & Finance*, 47, 201-219, (2017). (doi: [10.1016/j.resourpol.2016.11.009](https://doi.org/10.1016/j.resourpol.2016.11.009)).

Balcilar, Mehmet; Kutan, Ali M.; Yaya, Mehmet E. Testing the dependency theory on small island economies: The case of Cyprus. *Economic Modelling*, 61, 1-11, (2017). (doi: [10.1016/j.econmod.2016.11.011](https://doi.org/10.1016/j.econmod.2016.11.011)).

Balcilar, Mehmet; Bonato, Matteo; Demirer, Riza; Gupta, Rangan. The effect of investor sentiment on gold market return dynamics: Evidence from a nonparametric causality-in-quantiles approach. *Resources Policy*, 51, 77-84, (2017). (doi: [10.1016/j.resourpol.2016.11.009](https://doi.org/10.1016/j.resourpol.2016.11.009)).

Balcilar, Mehmet; Gupta, Rangan; Sousa, Ricardo M.; Wohar, Mark. Do cay and cay(MS) predict stock and housing returns? Evidence from a nonparametric causality test. *International Review Of Economics & Finance*, 48, 269-279, (2017). (doi: [10.1016/j.iref.2016.12.007](https://doi.org/10.1016/j.iref.2016.12.007)).

Aye, Goodness C.; Balcilar, Mehmet; Gupta, Rangan. International stock return predictability: Is the role of US time-varying? *Empirica*, 44, 121-146, (2017). (doi: [10.1007/s10663-015-9313-3](https://doi.org/10.1007/s10663-015-9313-3)).

Balcilar, Mehmet; Gupta, Rangan; Wohar, Mark E. Common cycles and common trends in the stock and oil markets: Evidence from more than 150 years of data. *Energy Economics*, 61, 72-86, (2017). (doi: [10.1016/j.eneco.2016.11.003](https://doi.org/10.1016/j.eneco.2016.11.003)).

Mensi, Walid; Hammoudeh, Shawkat; Yoon, Seong-Min; Balcilar, Mehmet. Impact of macroeconomic factors and country risk ratings on GCC stock markets: evidence from a dynamic panel threshold model with regime switching. *Applied Economics*, 49, 1255-1272, (2017). (doi: [10.1080/00036846.2016.1217305](https://doi.org/10.1080/00036846.2016.1217305)).

Balcilar, Mehmet; Gupta, Rangan; Jooste, Charl. Long memory, economic policy uncertainty and forecasting US inflation: a Bayesian VARFIMA approach. *Applied Economics*, 49, 1047-1054, (2017). (doi: [10.1080/00036846.2016.1210777](https://doi.org/10.1080/00036846.2016.1210777)).

Aye, Goodness C., Miller, Stephen, Gupta, Rangan and Balcilar, Mehmet. Forecasting US real private residential fixed investment using a large number of predictors, *Empirical Economics*, 51, 1557-1580, (2016). (doi: [10.1007/s00181-015-1059-z](https://doi.org/10.1007/s00181-015-1059-z)).

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- persistence using an ARFIMA model with Markov-switching fractional differencing parameter, *Journal of Developing Areas*, 50, 47-57, (2016). (doi:10.1353/jda.2016.0004).
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- Balcilar, Mehmet, Gupta, Rangan, Kyei, Clement and Wohar, Mark. Does Economic Policy Uncertainty Predict Exchange Rate Returns and Volatility? Evidence from a Non-parametric Causality-in-Quantiles Test, *Open Economies Review*, 27, 229-250, (2016). (doi: 10.1007/s11079-016-9388-x).
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- Aye, Goodness C., Balcilar, Mehmet, El Montasser, Ghassen, Gupta, Rangan and Manjez, Nangamso C. Can debt ceiling and government shutdown predict us real stock returns? A bootstrap rolling window approach, *International Economics*, 69, 11-31, (2016). ([Online Access](#)).
- Simo-Kengne, Beatrice Desiree, Miller, Stephen, Gupta, Rangan and Balcilar, Mehmet. Evolution of the Monetary Transmission Mechanism in the US: the Role of Asset Returns, *The Journal of Real Estate Finance and Economics*, 52, 226-243, (2016). (doi: 10.1007/s11146-015-9512-5).
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#### **BOOK TRANSLATIONS**

Economics, 11th Ed., by D. Begg and G. Vernasce. *Published as: İktisadın İlkeleri*, London: McGraw Hill, 2014. ISBN: 9780077160180. (jointly with Ayla Oğus Binatli).

Principles of Economics, 9th Ed., by K. E. Case, R. C. Fair, and S. M. Oster, 9th Ed. *Published as: Ekonominin İlkeleri*, İzmir: Palme Yayınları, 2011. ISBN: 9786054414406. (Translated Chapter 36: Economic Growth in Developing and Transitional Economies).

Microeconomics, 7th Ed., R. S. Pindyck and D. L. Rubinfeld. *Published as: Mikroiktisat*, İzmir: Palme Yayınları, 2013. ISBN: 978-605-355-214-7. (Translated Chapter 5: Uncertainty and Consumer Behavior).

#### **BOOK CHAPTERS**

Balcilar, Mehmet, Genç, İsmail H. and Gupta, Rangan, (2018), The links between crude oil prices and gcc stock markets: Evidence from time varying Granger causality tests. In: Semei Coronado, Omar Rojas, Francisco Venegas-Martínez (Eds), *Recent Topics in Time Series and Finance: Theory and Applications in Emerging Markets*, pp. 121-162. Zapopan, Jalisco: Universidad de Guadalajara. ISBN: 978-607-547-003-0.

Balcilar, Mehmet. Hope versus Reality: Twenty Years of Economic Transition and the Turkic States of Central Asia. In: Aysen Hic Gencer, İlyas Sözen and Selahattin Sari.

Eds. *Eurasian Economies in Transition*, Cambridge Scholars Publishing, Newcastle, (2017). ISBN: 978-1-4438-1266-5. ([Link to Publisher](#)).

## **Consultancy Research Activities on Public Health, Natural Disasters, and Refugees**

*Title:* Survey on the Health Status, Services Utilization and Determinants of Health of the Syrian Refugee Population in Turkey.

*Year:* November 2017–March 2019.

*Institution:* World Health Organization.

*Description:* Chief Consultant on research design, implementation, and coordinating the filed survey; performing the statistical analysis of the data and writing the report..

*Reference:* <http://www.euro.who.int/en/countries/turkey/publications/prevention-and-control-of-noncommunicable-diseases-in-turkey-the-case-for-investment-2018>.

*Title:* Turkey Household Health Survey “Prevalence of Noncommunicable Disease Risk Factors” .

*Year:* March 2017–November 2017.

*Institution:* World Health Organization and Turkey Ministry of Health and World Health Organization.

*Description:* Project chief consultant, designing sampling framework and methodology, performing the statistical analysis of the data and writing the report.

*Title:* The perspectives of politicians on tobacco control: Turkish experience .

*Year:* December 2017–May 2018.

*Institution:* World Health Organization.

*Description:* Paper jointly written with Hilal Özcebe and Toker Ergüder.

*Title:* Health Status Survey among Syrians in Turkey .

*Year:* January 2018.

*Institution:* World Health Organization.

*Description:* Chief Consultant on implementation on implementation and methodology for Turkey; performing the statistical analysis of the data and writing the report.

*Title:* Prevention and control of noncommunicable diseases in Turkey - The case for investment.

*Year:* June 2017–December 2018.

*Institution:* World Health Organization and Ministry of Health of Republic of Turkey..

*Description:* Analysis and composing the report jointly with Anna Kontsevaya, Jill Farrington, and Toker Ergüder.

*Reference:* <http://www.euro.who.int/en/countries/turkey/publications/prevention-and-control-of-noncommunicable-diseases-in-turkey-the-case-for-investment-2018>.

*Title:* KKTC Sanayi, Turizm ve Tarım Sektörü Hibe Programlarının Ekonomik Etki Analizi (Economic Impact Analysis of Grant Programs on TRNC Industry, Tourism, Agricul-

ture Sectors).

*Year:* April 2017–September 2017.

*Institution:* Project Carried out by EconPol for Economic Development and Cooperation Office of the Republic of Turkey Nicosia Embassy.

*Description:* Designing the filed survey using, performing the statistical analysis of the data and writing the report.

*Title:* Health Status Survey of Syrian Refugees In Turkey.

*Year:* March 2015–January 2016.

*Institution:* World Health Organization, Republic of Turkey Disaster and Emergency Management Authority, and Republic of Turkey Ministry of Health.

*Description:* Designing, implementing, coordinating the filed survey using WHO STEPS methodology; performing the statistical analysis of the data and writing the report.

*Reference:* [https://www.afad.gov.tr/upload/Node/14019/xfiles/Health\\_Status\\_Survey\\_of\\_Syrian\\_Refugees\\_in\\_Turkey.pdf](https://www.afad.gov.tr/upload/Node/14019/xfiles/Health_Status_Survey_of_Syrian_Refugees_in_Turkey.pdf)

*Title:* Syrian Refugees in Turkey and the Experience of War.

*Year:* November 2017–February 2016.

*Institution:* The World Bank, Project No: UPI499993.

*Description:* The task involved forming a data set from three waves surveys done in Turkey with Syrian refugees, unify and harmonize the data, performing statistical analysis, and writing the report.

*Title:* Health and Nutrition Survey on Syrian Children and Woman in Turkey.

*Year:* May 2014–February 2015.

*Institution:* United Nations Children's Fund, World Health Organization, and Republic of Turkey Disaster and Emergency Management Authority,

*Description:* Designing, implementing, coordinating the filed survey using UNICEF SMART methodology; performing the statistical analysis of the data and writing the report.

*Reference:* [http://www.mbalcilar.net/Syian\\_Health\\_Nutrition.pdf](http://www.mbalcilar.net/Syian_Health_Nutrition.pdf)

*Title:* Disaster Risk Modelling System for the Disaster Risk Reduction Plan for Turkey (TARAP).

*Year:* June 2015–Present.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* Developing a GIS based modelling system for disaster risk mapping: developing statistical algorithms, coding the software, preparing underlying data for the whole of Turkey.

*Title:* Disaster Risk Management System for Turkey (TAF-RISK).

*Year:* June 2014–December 2015.

*Institution:* Informatics and Information Security Research Center of the Scientific and Technological Research Council of Turkey, and Republic of Turkey Disaster and Emergency Management Authority.

*Description:* R&D project for the developing a disaster management system for Turkey; worked as the project coordinator of AFAD and also wrote the economic risk assessments report.

*Title:* World Humanitarian Summit.

*Year:* January 2014–June 2016.

*Institution:* United Nations.

*Description:* Thematic Team Member for area “Reducing Vulnerability and Managing Risk” representing Turkey; Contributed to synthesis report for the resilience building and developing new strategies for conflict affected people.

*Reference:* See [Restoring Humanity: Global Voices Calling for Action](http://synthesisreport.worldhumanitariansummit.org)

<http://synthesisreport.worldhumanitariansummit.org>

*Title:* Syrian Women in Turkey.

*Year:* May 2014–November 2014.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* Designing, implementing, coordinating the filed survey using; performing the statistical analysis of the data and writing the report.

*Reference:* [https://www.afad.gov.tr/upload/Node/3904/xfiles/afad-suriye-kdn\\_eng.pdf](https://www.afad.gov.tr/upload/Node/3904/xfiles/afad-suriye-kdn_eng.pdf)

*Title:* Population Influx From Syria To Turkey 2014.

*Year:* May 2014–September 2014.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* Designing, implementing, coordinating the filed survey using; performing the statistical analysis of the data and writing the report.

*Reference:* [https://www.afad.gov.tr/upload/Node/3905/xfiles/population\\_influx.pdf](https://www.afad.gov.tr/upload/Node/3905/xfiles/population_influx.pdf)

*Title:* Türkiye Afet Farkındalığı ve Afetlere Hazırlık Araştırması 2014 (A Survey Disaster Awareness and Preparedness in Turkey 2014).

*Year:* June 2014–November 2014.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* Designing, implementing, coordinating the filed survey using; performing the statistical analysis of the data and writing the report.

*Reference:* [https://www.afad.gov.tr/upload/Node/3923/xfiles/turkiye-afet-farkindaligi-ve-afetlere-hazirlik-arastirmasi\\_-2014-edited.pdf](https://www.afad.gov.tr/upload/Node/3923/xfiles/turkiye-afet-farkindaligi-ve-afetlere-hazirlik-arastirmasi_-2014-edited.pdf)

*Title:* Syrian Refugees in Turkey 2013: Field Survey Results.

*Year:* April 2013–November 2013.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* Designing, implementing, coordinating the filed survey using; performing the statistical analysis of the data and writing the report.

*Reference:* <https://www.afad.gov.tr/upload/Node/3926/xfiles/syrian-refugees-in-turkey-2013>

*Title:* Müdahale, İyileştirme ve Sosyoekonomik Açından 2011 Van Depremi Raporu (2011 Van Earthquake from the Response, Recovery, and Socioeconomic Effect Perspectives).

*Year:* February 2012–September 2012.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* An evaluation of the effects of 2011 Van Earthquake in Turkey; coordinated the collection of all information and contributed to the write-up of the report.

*Reference:* [https://www.afad.gov.tr/upload/Node/3930/xfiles/mudahale\\_-iyilestirme-ve-sosyoekonomik-acidan-2011-van-depremi-raporu.pdf](https://www.afad.gov.tr/upload/Node/3930/xfiles/mudahale_-iyilestirme-ve-sosyoekonomik-acidan-2011-van-depremi-raporu.pdf)

*Title:* Türkiye’de Maden Kazaları ve Soma Maden Kazası (Mining Accidents in Turkey and Soma Mine Accident).

*Year:* November 2014–December 2014.

*Institution:* Republic of Turkey Disaster and Emergency Management Authority.

*Description:* An evaluation of the history of mining accidents in Turkey and experiences of the 2014 Soma mining accident; coordinated the collection of all information and contributed to the write-up of the report.

#### CONFERENCE PRESENTATIONS

Balcilar, M., Demirer, R., Hammamoudah, 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 ASSA*, January 2015, Boston, US.

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 ASSA*, January 2015, Boston, US.

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 ASSA*, January 2015, Boston, US.

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 ASSA*, January 2014, Philadelphia, US.

Balcilar, M., Demirer, R., Hammamoudah, 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 ASSA*, January 2014, Philadelphia, US.

Balcilar, M., Gungor, H., Hammamoudah, S., 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.

Balcilar, M., Hammamoudah, 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.

Balcilar, M., New Perspectives on Sovereign Rating and Country Risk, *Fifth Izmir Economic Congress*, October 2013, Izmir, Turkey.

Balcilar, M., Demirer, R., Hammamoudah, S., Does Market Volatility Drive the Investor Herding in Oil-Rich, Frontier Markets, *88th Annual Conference of the Western Economic Association International*, June 2013, Seattle, US.

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, US.

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, US.

Balcilar, M., Demirer, R., Kucuk, N., Dynamic Investor Herds in a Regime- Switching Environment: Evidence from Turkish Stock Market, *EconAnadolu 2013: Anadolu International Conference in Economics*, June 2013, Eskisehir, US.

Balcilar, M., Demirer, R., Hammamoudah, 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.

Oluwatoyin, A.M., Balcilar, M., Does the Recent Spike in food Prices Have any Economic Benefit?, *International Conference On Applied Economics (ICOAE 2012)*, June 2012, Uppsala, Sweden.

Balcilar, M., Demirer, R., Hammamoudah, S., Do Global Shocks Drive Investor Herds in Oil-Rich Frontier Markets?, *33rd Annual Meeting of the the Middle East Economic Association (MEEA) in conjunction with the ASSA*, January 2013, San Diego, US.

Balcilar, M., Hope versus Reality: 20 Years of Economic Transition at the Turkish States of the Central Asia, *International Conference on Eurasian Economies-2012*, October 2012, Almaty, Kazakhstan.

Balcilar, M., Demirer, R., Hammamoudah, S., Investor Herds and Regime-Switching: Evidence from Gulf Arab Stock Markets, *32nd Annual Meeting of the the Middle East Economic Association (MEEA) in conjunction with the ASSA*, January 2012, Chicago, US.

Kucuk, N., Balcilar, M., On the Gender Gap, ICT, and Institutional Infrastructure: A Dynamic Panel Data Analysis, *Prepared for the HDCA Conference 2011 The Hague, The Netherlands*, September 2011, The Hague, The Netherlands.

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.

Balcilar, M., Genc, I., The links between crude oil prices and GCC stock markets: The regime switching Granger causality tests, *11th Annual Meeting of the Middle East Economic Association (MEEA) in conjunction with the ASSA*, January 2011, Denver, US.

Balcilar, M., Genc, I., 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.

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.

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.

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.

Balcilar, M., Asymmetric and Time Varying Causality between Inflation and Inflation Uncertainty, Keynote Speaker, *Spring Meeting of Young Economists 2009*, May 2009, Istanbul, Turkey.

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.

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.

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.

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.

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 Northern Cyprus.



Balcilar, M., Is there Common MENA Region Business Cycle, *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 Northern Cyprus.

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.

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 Atatürk Organized Industrial Zone and Dokuz Eylül University, November 2007, Izmir, Turkey.

Balcilar, M., The Dynamics of Real Exchange Rate Misalignment in Turkey, *Eight National Econometrics and Statistics Symposium*, May 2007, Malatya, Turkey.

Balcilar, M., Danju, D. Real Exchange Rate Misalignment and Macroeconomic Performance in Turkey, *First International Conference on Business, Management and Economics*, Yaşar Üniversitesi, Haziran 2005, İzmir.

Balcilar, M., Inflation Persistence in Transition Economies, *First International Conference on Business, Management and Economics*, Yasar University, June 2005, Izmir, Turkey.

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.

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.

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.

Balcilar, 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.

Balcilar, M., Is Governance Key to the Successful Transition? Empirical Findings, *Conference on the Stable Development of the Kyrgyz Republic*, Ministry of Education and Culture, Bishkek State Institute of Economics and Trade, October 2003, Bishkek, Kyrgyzstan.

Balcilar, M., Long Memory and Structural Breaks in Turkish Inflation Rates, *Sixth National Econometrics and Statistics Symposium*, May 2003, Ankara, Turkey.

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, De-

cember 2003, Biskek, Kyrgyzstan.

Balcilar, M., Governance Issues in Central Asia States: Effects on the Business and Development, *State and Business in XXI Century: International Scientific-Practical Conference*, Al-Farabi Kazakh National University, November 2003, Almaty, Kazakhstan.

Balcilar, M., On the Governance and Economic Development in Transition Countries, *Conference on the Strategic Perspectives and Contemporary Economic Problems of Kyrgyz Republic*, Kyrgyz-Russian Slavic University, May 2003, Bishkek, Kyrgyzstan.

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*, Institute of Management, May 2003, Celal Abad, Kyrgyzstan.

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.

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.

Balcilar, M., A Multifractal Random Walk Down IMKB, *METU International Conference on Economics V*, Middle East Technical University, September 2001, Ankara, Turkey.

Balcilar, M., Testing for Cointegration Rank in Fractionally Integrated Processes, *METU International Conference on Economics V*, Middle East Technical University, September 2001, Ankara, Turkey.

Balcilar, M., A Comparison of Fractional Cointegration Tests, *Sixth National Econometrics and Statistics Symposium*, September 2001, Adana, Turkey.

Balcilar, M., Bootstrap Based Unit Root Tests Under Structural Change, *METU International Conference on Economics IV*, Middle East Technical University, September 2000, Ankara, Turkey.

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.

Balcilar, M., Doğanlar, M., Estimation of Dynamic Import Demand Functions for the Turkish Economy: Cointegration Approach, *Proceedings of the Third National Econometrics and Statistics Symposium*, May 1998, Bursa, Turkey.

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.

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.

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.

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.

#### SOFTWARE DEVELOPMENT

Balcilar, M., A Dictionary of Econometric Terms, Turkish Language Institute, (2008). (<http://www.tdk.gov.tr>).

Balcilar, M., RSTAR (Smooth Transition Autoregressive Modeling Using R) library for R, (2008).

Balcilar, M., mFilter (Miscellaneous Business Cycle Filters) library for R, (2007). (<http://cran.r-project.org/src/contrib/Descriptions/mFilter.html>).

Balcilar, M., McLeod, A.I., PEAR (Periodic Autoregression Analysis) library for R, (2005). (<http://cran.r-project.org/src/contrib/Descriptions/pear.html>).

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

#### Workshops, seminars & training

Markov 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.

Linear Time Series Analysis, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 1-12 August 2016, Istanbul, Turkey.

Nonlinear Time Series Analysis: Theory and Practice, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 1-12 August 2016, Istanbul, Turkey.

Linear Time Series Analysis, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 3-7 August 2015, Istanbul, Turkey.

Nonlinear Time Series Analysis: Theory and Practice, 30 hours training, *Summer School in Econometrics*, Istanbul Technical University, 10-14 August 2015, Istanbul, Turkey.

Nonlinear Time Series Analysis: Theory and Practice, 40 hours training, *Summer School in Economics*, Pamukkale University, 8-12 September 2014, Denizli, Turkey.

Applied Linear Time Series Analysis, 40 hours training, *Summer School in Economics*, Pamukkale University, 26-31 August 2013, Denizli, Turkey.

Applied Linear Time Series Analysis, 40 hours training, *Summer School in Economics*, Pamukkale University, 10-21 June 2013, Denizli, Turkey.

Nonlinear Time Series Models and Structural Change in Macroeconomics, 20 hours course, University of Pretoria, 27 Jul-31 August 2012, Pretoria, Sout Africa.

Financial Econometrics, 20 hours training, *Summer School in Economics*, Pamukkale University, 9-13 July 2012, Denizli, Turkey.

Nonlinear Time Series Analysis: Theory and Practice, 60 hours training, *Summer School in Economics*, Pamukkale University, 9-20 July 2012, Denizli, Turkey.

Financial Econometrics, 40 hours training *Eskisehir Osman Gazi University*, 26-31 March 2012, Eskisehir, Turkey.

Financial Econometrics, 60 hours training *İzmir Katip Çelebi University-Eastern Mediterranean University Joint Program*, 22-29 January 2012, İzmir, Turkey.

Fractionally Integrated and Cointegrated Time Series, 20 hours training, *Summer School in Economics*, Pamukkale University,, 25-29 July 2011, Denizli, Turkey.

Econometrics Using R, 20 hours training, *Summer School in Economics*, Pamukkale University, 11-15 July 2011, Denizli, Turkey.

Nonlinear Time Series Analysis: Theory and Practice, 60 hours training, *Summer School in Economics*, Pamukkale University, 18-29 July 2011, Denizli, Turkey.

Modeling and forecasting with Nonlinear Time Series Models, 60 hours training, *Summer School in Economics*, Pamukkale University, 26 July-7 August 2010, Denizli, Turkey.

Forecasting with Long-Memory Time Series Models, 20 hours training, *Summer School in Economics*, Pamukkale University, 2-7 August 2010, Denizli, Turkey.

Modeling and Forecasting with Nonlinear Time Series Models, 40 hours training, *Summer School in Economics*, Pamukkale University, 3-8 August 2009, Denizli, Turkey.

Forecasting with Long-Memory Time Series Models, 20 hours training, *Summer School in Economics*, Pamukkale University, 3-8 August 2009, Denizli, Turkey.

Forecasting Financial Time Series, 20 hours training, Risk Management Unit, Ziraat Bank, 22-28 June 2009, Ankara, Turkey.

Household Income Distribution, Poverty Measurement and Socioeconomic Conditions, 2-day workshop, Department of Economics, Eastern Mediterranean University, 20-21 May 2009, Famagusta, Notehern Cyprus.

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.

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.

Nonlinear Financial Time Series Modeling Using RSTAR, *Focus Group Study*, Technische Universität Dortmund, 13 August 2008, Dortmund, Germany.

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.

Financial Econometrics, 40 hours training, Continuing Education Research and Application Center, TOBB University of Economics and Technology, 14-20 August 2008, Ankara, Turkey.

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.

Applications in Translog Production and Cost Function, 3 hours seminar, Department of Economics, Eastern Mediterranean University, 13 December 2007, Famagusta, Northern Cyprus.

Estimating Efficiency Using Data Envelopment Analysis and Stochastic Frontiers, 2 hours seminar, Department of Economics, Eastern Mediterranean University, 19 October 2007, Famagusta, Northern Cyprus.

Analyzing Financial and Macroeconomic Time Series Using Nonlinear and Long-memory Time Series, 20 hours training, Eastern Mediterranean University, 21-23 May 2007, Famagusta, Northern Cyprus.

Analyzing Exchange Rates Using Nonlinear Models, 3 hours seminar, Department of Economics, Ege University, 9 April 2006, Izmir, Turkey.

How to Estimate Efficiency?, 2 hours seminar, Kazakhstan Institute of Economics, Business, and Strategic Planning, 28 October 2004, Almaty, Kazakhstan.

Modeling Nonstationarity: Applications in Finance and Economics, 4 hours training, Manas University, 4 May 2002, Bishkek, Kyrgyzstan.

Nonstationary Time Series Analysis, 30 hours training, Cukurova University, 20-30 April 1998, Adana, Turkey.

## Projects & grants

- 2007-2012 A Dictionary of the Econometric Terms, Turkish Language Institute, 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, *Ministry of Employment and Social Security and Turkish Employment Institute*, Turkey, Grant: \$1,219,000.
- 2008-2010 Electricity Demand Forecasts for Northern Cyprus, Principal Researcher, *Ministry of Education Research Grant*, Northern Cyprus, Grant: \$17,000.
- 2008-2009 Poverty, Immigration and Income Distribution in Northern Cyprus, Researcher, *Ministry of Education Research Grant*, Northern Cyprus, Grant: \$20,000.

- 2007-2008 A Value at Risk System Development for Turkish Financial Markets, Principal Researcher, *Cukurova University Research Center*, Turkey, Grant: \$5,500.
- 2006-2008 The Measurement of Performance of Industrial Development Regions and Development of New Strategies, Researcher, *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.
- 1993-1997 Economic Analyses of Drug Treatment Costs and Demand, Researcher, *National Institute on Drug Abuse*, USA, Grant: \$700,000.
- 1996-1997 Point Optimal Unit Root Tests with Structural Breaks, Principal Researcher, *Cukurova University Research Center*, Grant: \$3,000.
- 1988-1990 Consumption Functions and Consumption Behaviors in Adana, Principal Researcher, *Cukurova University Research Center*, Grant: \$3,000.

## Professional activities

### CONFERENCE, SYMPOSIUM & WORKSHOP

Co-Chair, AVECON 2019: *11th International Conference on Eurasian Economies*, 11-13 June 2019, Famagusta, Turkish Republic of Northern Cyprus.

Vice-Chair, ICCE-2018: *16th International Conference on Clean Energy*, 11-13 May 2018, Famagusta, Turkish Republic of Northern Cyprus.

Chair, ICNTEF 2015: *International Conference on New Trends in Econometrics and Finance*, 24-28 March 2015, Dubai, United Arab Emirates.

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.

Chair, ICEOS-2012: *13th International Conference on Econometrics, Operations Research and Statistics*, Eastern Mediterranean University, 24-26 May 2012, Famagusta, North Cyprus.

Member of the Scientific Committee, *3rd International Conference on Eurasian Economies*, Beykent University & Turan University, 11-13 October 2012, Almaty, Kazakhstan.

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, Northern Cyprus.

Member of the Scientific Committee, *2nd International Conference on Eurasian Economies*, Beykent University & Kyrgy-Turkish Manas University, 12-14 October 2011, Bishkek, Kyrgyzstan.

Organizer (with Hasan Gungor), *Macroeconomics and Financial Economics Workshop: Recent Developments in Theory and Empirical Modelling*, Eastern Mediterranean University, 8-9 Oc-

tober 2009, Famagusta, Northern Cyprus.

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.

Member of the Scientific Committee, *International Conference on Banking and Finance Perspectives*, Eastern Mediterranean University, 13-15 April 2011, Famagusta, Northern Cyprus.

Member of the Scientific Committee, *International Conference on Eurasian Economies*, Beykent University, 4-5 November 2010, Istanbul, Turkey.

Member of the Scientific Committee, *11th National Econometrics and Statistics Symposium*, Ataturk University, May 2010, Sakarya, Turkey.

Major organizer and member of the Organizing and Scientific committees, *First International Manas University Conference in Economics*, September 2004, Bishkek, Manas University, Kyrgyzstan.

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.

Member of the Organizing and Scientific committees, *First International Conference in Public Finance: Fiscal Policies in Transitional Economies*, Manas University, April 2004, Bishkek, Kyrgyzstan.

Member of the Organizing and Scientific committees, *Manas University International Conference on Globalization and Transition Economies*, Manas University, May 2002, Bishkek, Kyrgyzstan.

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

#### **EDITORIAL & REFEREE**

*Referee:* Quantitate Finance, Energy Economics, Economic Modelling, 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, Çukurova University Social Science Journal, Cukurova University FEAS Journal, Selcuk FEAS Journal, Gazi Antep University Social Science Journal.

*Editorial Board:* Eurasian Journal of Business and Economics, Manas University Social Science Journal, Cukurova University Economics and Business Journal.

## **Thesis supervision**

### **PH.D. THESIS**

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, Northern Cyprus, (2019).

Ojonugwa Usman, Ph.D. Thesis, Exchange Rate and Oil Price Pass-through in the Emerging Market Economies, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2019).

Firat Emir, Ph.D. Thesis, Risk Spillover and Macroeconomic Interactions Across Energy, Stock and Agricultural Market, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2019).

Andrew Adewale Alola, Ph.D. Thesis, The Connectedness of the Housing Market, Energy Market and Agricultural Commodities in the United States, Graduate Institute, Famagusta, Northern Cyprus, (2019).

Godwin Oluseye Olasehinde Williams, Ph.D. Thesis, Economic Analysis of Insurance, Uncertainty and Economic Growth, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2018).

Seyi Saint Akadiri, Ph.D. Partisan Conflict, Real Per Capita GDP and Inequality in the United States, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2018).

Elif Akay, Ph.D. Thesis, Risk Spillover and Macroeconomic Interactions Across Energy, Stock and Agricultural Market, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2018).

Mehmet Candemir, Ph.D. Thesis, Risk Spillover and Macroeconomic Interactions Across Energy, Stock and Agricultural Market, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2017).

Pejman Bahramian, Ph.D., Ph.D. Thesis, Forecasting Energy Prices Using Data Mining Methods, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2017).

Bahman Kashi, Ph.D. Thesis, Co-supervisor, Risk Management of Investments in the Electricity Sector, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2015).

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, Northern Cyprus, (2014).

Mostafa Shahee, Ph.D. Thesis, Income Distribution and Business Cycle, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2014).

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, Northern Cyprus, (2014).

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, Northern Cyprus, (2013).



Nezahat Küçük, Ph.D. Thesis, Impact of Information and Communication Technology on Gender Inequality and Development, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2013).

Zeynel A. Ozdemir, 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**

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, Northern Cyprus, (2019).

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, Northern Cyprus, (2015).

Firat Emir, MSc Thesis, Selecting Renewable Energy Sources for Small Islands Using Analytical Hierarchy Process (AHP), Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2014).

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, Northern Cyprus, (2013).

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).

Nesrin Dag, MSc Thesis, Estimation of Production Technology for Turkish Textile Industry, Graduate Institute, Famagusta, Northern Cyprus, (2010).

Zhanat Jalilova, MSc Thesis, Currency Substitution in Transition Economies, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2010).

Ulviya Hajiyeva, MSc Thesis, Real Exchange Rate Misalignments: Panel Data Analysis, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2010).

Orhan Dağlı, MSc Thesis, The Felstein-Horioko Puzzle: A Markov Switching Causality Analysis of the OECD Region, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2010).

Fahriye Genç, MSc Thesis, Effect of Exchange Rate Changes on Export Performance in Turkey, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2009).

Gözde Yalım, MSc Thesis, Inflation and Inflation Uncertainty Relationship: A Cross-Country Analysis, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2009).

Kemal Bağzıbağlı, MSc Thesis, Identification of Monetary Policy in Turkey: 1990-200, Eastern Mediterranean University, Graduate Institute, Famagusta, Northern Cyprus, (2009).

## 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*

## 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 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 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.

## Curriculum development

- 2015 Restructured BA Program in Economics, Department of Economics, Eastern Mediterranean University, Famagusta, Northern Cyprus.
- 2012 Established a new MA Program in Managerial Economics, Department of Economics, Eastern Mediterranean University, Famagusta, Northern Cyprus.
- 2012 Established a new MA Program in Financial Economics, Department of Economics, Eastern Mediterranean University, Famagusta, Northern Cyprus.
- 2010 Prepared Ph.D. Program Catalogue, Department of Economics, Eastern Mediterranean University, Famagusta, Northern Cyprus.
- 2009 Developed an MA course in Financial Economics; ECON 513: Financial Economics, Department of Economics, Eastern Mediterranean University, Famagusta, Northern Cyprus.
- 2008 Restructured the Ph.D. Program, Department of Economics, Eastern Mediterranean University, Northern Cyprus.

- 2007 Developed a Ph.D. level Macroeconomics course; ECON 602: Advanced Macroeconomic Theory, Department of Economics, Eastern Mediterranean University, Northern Cyprus.
- 2007 Developed a Ph.D. level Time Series Econometrics course; ECON 604: Time Series Econometrics, Department of Economics, Eastern Mediterranean University, Northern Cyprus.
- 2007 Developed an MA level Econometrics course; ECON 503: Econometrics, Department of Economics, Eastern Mediterranean University, Northern Cyprus.
- 2007 Developed a new Undergraduate night program, Department of Econometrics, Cukurova University, Turkey.
- 2007 Restructured the Undergraduate Curriculum, Department of Econometrics, Cukurova University, Turkey.
- 2005 Prepared the catalogue for the Undergraduate and MA programs, Department of Economics, Kazakhstan Institute for Management, Economics and Strategic Research, Kazakhstan, 2005.
- 2005 Developed a one semester Numerical Analysis in Economics course, ECON 541; Numerical Analysis in Economics, Department of Economics, Kazakhstan Institute for Management, Economics and Strategic Research, Kazakhstan.
- 2003 Prepared the catalogue for the Undergraduate and Graduate programs (MA and PhD), Manas University, Kyrgyzstan.
- 2003 Restructured the Undergraduate Curriculum, Department of Economics, Manas University, Kyrgyzstan.
- 2003 Constructed the PhD Curriculum, Department of Economics, Manas University, Kyrgyzstan.
- 2003 Constructed the MA Curriculum, Department of Economics, Manas University, Kyrgyzstan.
- 2003 Established the Phd Program, Department of Economics, Manas University, Kyrgyzstan.
- 2003 Established the MA Program, Department of Economics, Manas University, Kyrgyzstan.
- 2002 Developed the Applied Macroeconomics course for the Undergraduate Program, Department of Econometrics, Manas University, Kyrgyzstan.
- 2002 Developed a two semester Econometrics course for the Undergraduate Program, Department of Econometrics, Manas University, Kyrgyzstan.
- 1999 Prepared the catalogue for the Undergraduate and MA programs, Department of Econometrics, Cukurova University, Turkey.
- 1999 Restructured the MA Curriculum, Department of Econometrics, Cukurova University, Turkey.
- 1999 Restructured the Undergraduate Curriculum, Department of Econometrics, Cukurova University, Turkey.

1997 Developed the Time Series Econometrics course for the PhDe Program, Department of Economics, Cukurova University, Turkey.

1997 Developed a two semester Time Series Analysis course for the Undergraduate Program, Department of Econometrics, Cukurova University, Turkey.

## Languages

TRKISH: mother tongue.

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

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

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

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

## References

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