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RESEARCH FIELDS Economic Policy, Public Policy, Macroeconomics, Growth and Development, Public Economics, Informal Sector, Applied Economics, Economics of COVID-19.

APPOINTMENTS	05/2019 - current	Professor, Bogazici University, Turkey.
	08/2019 - 12/2021	Lecturer in Discipline in Economics, Columbia University
	08/2019 - 12/2021	Director of the Masters Program in Economics, Columbia University
	06/2021 - 06/2023	Research Associate, New York University Langone Health (remote)
	09/2019 - 02/2021	Adjunct Professor, New York University SPS
	09/2018 - 05/2019	Visiting Professor - Lecturer, Boston University
	02/2019 - 05/2019	Visiting Associate Professor, George Washington University
	08/2018 - 06/2019	Visitor, Development Prospects Group World Bank.
	06/2014 - 05/2019	Associate Professor, Bogazici University
	10/2016 - 06/2017	Short Term Consultant, Development Prospects Group World Bank.
	04/2015 - 06/2015	Short Term Consultant, Development Prospects Group World Bank.
	01/2014 - 05/2014	Visiting Assistant Prof., Boston University
	03/2014 - 03/2014	Visiting Scholar, Research Department, IMF
	04/2013 - 05/2013	Visiting Assistant Prof., Tilburg University
	03/2012 - 03/2012	Visiting Scholar, Research Department, IMF
	09/2010 - 06/2014	Assistant Professor, Bogazici University
	11/2008 - 02/2009	Visiting Scholar, Federal Reserve Bank of Minneapolis
	09/2005 - 06/2010	Graduate Instructor, University of Minnesota

EDUCATION	<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
	Ph.D.	Economics	University of Minnesota	2010
	Ph.D.(minor)	Mathematics	University of Minnesota	2010
	M.A.	Economics	University of Minnesota	2009
	B.A.	Law	Istanbul Sehir University	2018
	B.A.	Public Administration	Anadolu University	2005
	B.A.	Economics	Bogazici University	2005

SELECTED AND RECENT PUBLICATIONS "Routledge Handbook of Informal Economy", *New York: Routledge*, 2024, Forthcoming.

"Corporate social responsibility: Formal versus informal firms ", *Corporate Social Responsibility and Environmental Management*, 2024, Forthcoming

"Central Bank Independence vs. Inflation: Delegation and Seesaw Effects", *Journal of Central Banking: Theory and Practice*, 2024, Forthcoming.

"Salary Negotiations: Gender Differences in Attitudes, Priorities, and Behaviors of Ophthalmologists", (with several authors) *American Journal of Ophthalmology*, 2024, 257, 154-164.

- "Democracy and Fiscal-Policy Response to COVID-19", (with Sezer Yasar) *Public Choice*, 2024, 198, 25-45.
- "Novel Methods of Identifying Individual and Neighborhood Risk Factors for Loss to Follow-Up After Ophthalmic Screening ", (with several authors) *Journal of Glaucoma*, 2023, 10, 197.
- "Economic stimulus measures in the pandemic: the role of fiscal decentralisation", (with Abdullah Yalaman and Sezer Yasar) *Cambridge Journal of Regions, Economy, and Society*, 2023, 16 (1), 167-184.
- "Persistency of military spending and fiscal policy responses to Covid-19 ", (with Kerem Cantekin and Adem Y. Elveren) *Critical Military Studies*, 2023, 9 (4), 568-581.
- "Measuring green technology adoption across countries", (with Gokcer Ozgur and Kerem Cantekin) *Sustainable Development*, 2023, 31 (1),1-11.
- "Evaluating the effectiveness of labor market interventions on reducing the impacts of the COVID-19 pandemic", (with Colin Williams and Gamze Oz-Yalaman) *Review of Development Economics*, 2023, 27 (1), 352-374.
- "Validation of the New York University Langone Eye Test Application, a Smartphone-Based Visual Acuity Test", (with several authors) *Ophthalmology Science*, 2022, 2 (3), 1-8.
- "Neighborhood-Level Social Determinants of Health and Follow Up", (with several authors) *Investigative Ophthalmology & Visual Science*, 2022, 63, 2797 - A0127.
- "Economic policy responses to the COVID-19 pandemic: The role of central bank independence", (with Sezer Yasar, Gokce Basbug and Abdullah Yalaman) *Economics Letters*, 2021, 204, 109874.
- "Informality, Inequality, and Feminization of Labor" (with Adem Y. Elveren), *Women's Studies International Forum*, 2021, 88, 102505.
- "Pigouvian exploitation, informality and economic growth: Theory and evidence", *Efil Journal of Economic Research*, 2021, 4 (3), 8-20.
- "Fiscal stimulus packages to COVID-19: The role of informality ", (with Colin Williams, Gamze Oz-Yalaman, and Abdullah Yalaman) *Journal of International Development*, 2022, 34 (4), 861-879.
- "Marginal Cost of Public Funds under the Presence of Informality" (with Orhan Torul and Tugce turk), *Hacienda Pública Española*, 2022, 241, 79-103.
- "The Informal Economy: Measures, Causes, and Consequences", *Routledge*, 2021.
- "Risky Choices in a Natural Experiment from Turkey" (with O. Torul and E. Aydogdu), *Journal of Behavioral and Experimental Economics*, 2021, 92, 101685.
- "Velocity of Money and the Shadow Economy" (with Ertan Iyidost, *Applied Economics Letters*, 2022, 29, 18.
- "Financing the Welfare State in Turkey" (with A. Y. Elveren and K. Cantekin, *Financing Welfare State Systems*, 2021, Routledge..
- "Gender Compensation Gap for Ophthalmologists in the First Year of Clinical Practice", *Ophthalmology*, 2021, 128 (7), 971-980.
- "Foreign Direct Investment, Informality, and Technology Transfer", *Review of Development Eco-*

nomics, 2021, 25 (2), 994-1015.

"Is Informality a Barrier for Sustainable Development?", *Sustainable Development* 2020 (with Gokcer Ozgur and Adem Y. Elveren) 29 (1), 45-65.

"Contact Tracing is Associated with Lower COVID-19 Case Fatality Rates: Cross-country Evidence" (with Gokce Basbug, Abdullah Yalaman, Alison Galvani), *Scientific Reports-Nature*, 2021, 11, 2145.

"Informality, Inequality and Profit Rate" (with Adem Y. Elveren and Joseph Bourgeois), *Applied Economics Letters* 2021, 28 (12), 1017-1020.

"Economic Policy Responses to a Pandemic: Developing the COVID-19 Economic Stimulus Index" (with Gokce Basbug and Abdullah Yalaman), *Covid Economics: Vetted and Real Time Papers*, 2020 3, 40-54).

"Incarceration and Labor Market Conditions of the Underclass in the United States: An Empirical Investigation", (with Kerem Cantekin), *European Journal on Criminal Policy and Research*, 26(4), 529-546.

"Shadow Economies around the World: Evidence from Metropolitan Areas", *Eastern Economic Journal*, 2020 46, 301-322.

"Wage Led vs. Profit Led Growth: A Comprehensive Econometric Analysis", (with Cem Oyvat and Oguz Oztunali) *Metroeconomica*, 2020 71 (3), 458-486.

"Evolution and Predictors of the Homicide Rate in Turkish Provinces: Evidence from Panel Data", *European Journal on Criminal Policy and Research*, 2019, 25, 379-390.

"Sectoral Estimates of Informality: A New Method and An Application to Turkish Economy.", (with M. Burak Sezgin), *The Developing Economies*, 2017, Vol. 55, No. 4, pp. 261-289.

"Growth Effects of Inflation under the Presence of Informality.", (with Dila Asfuroglu), *Bulletin of Economic Research*, 2016, Vol. 68, No. 4, pp. 311-328.

"Cyclicality of Labor Wedge and Informal Sector", (with Orhan Erem Atesagaoglu), *Economics Letters*, December 2015, Vol. 136., pp. 141-146.

"Informal Economy in a Dynamic Political Framework", *Macroeconomic Dynamics*, 2015, Vol. 19, No. 3, pp. 578-617.

"Homeownership, informality and the transmission of monetary policy", (with R. Burak Uras), *Journal of Banking and Finance*, 2014, Vol. 49, pp. 160-168.

"Public debt, sovereign default risk and shadow economy", (with R. Burak Uras), *Journal of Financial Stability*, December 2013, Vol. 9, No. 4, pp. 628-640.

"Is Informality a Barrier to Financial Development?", (with R. Burak Uras), *SERIEs*, 2013, Vol. 4, No. 3, pp. 309-331.

"A Theory of Economic Development with Endogenous Fertility", *Macroeconomic Dynamics*, 2012, Vol. 16, No. 5, pp. 686-705.

OTHER REFEREED PUBLICATIONS

"Informal economies around the world: measures, determinants and consequences", (with N. Ferda Erturk), *Eurasian Economic Review*, 2019, Vol. 9, No. 2, pp. 221-237.

"Socio-demographics, political attitudes and informal sector employment: A cross-country analy-

- sis", (with Metin Basbay and Orhan Torul), *Economic Systems*, 2018, Vol. 42, No. 4, pp. 556-568.
- "Termination of Co-Ownership Cases: A Statistical Analysis for Immovable Sales", (with Erdem Atesagaoglu), *Journal of the Turkish Bar Association*, 2018, Vol. 139, pp. 221-237.
- "Extent and Growth Effects of Informality in Turkey: Evidence from a Firm-Level Survey", (with Kerem Cantekin), *Singapore Economic Review*, 2017, Vol. 62, No. 5, pp. 1017-1038.
- "TFP Growth in Turkey Revisited: The Role of Informal Sector", (with O. Erem Atesagaoglu and Oguz Oztunali), *Central Bank Review*, 2017, Vol. 17, No. 1, pp. 11-17.
- "A Note on Informality and Public Trust", (with H. Kadir Tosun), *Economics Bulletin*, 2017, 37 (4), 2595-2601.
- "Determinants of Ticket Prices in Turkish Aviation Industry", (with O. Erem Atesagaoglu and Oguz Oztunali), *Journal of Yasar University*, 2017, Vol. 48 No. 2, pp. 329-338.
- "Informality and Structural Transformation", (with O. Erem Atesagaoglu and Deniz Bayram), *Central Bank Review*, 2017, Vol. 17, No. 4, pp. 117-126.
- "Religiosity and Fairness Perceptions", (with M. Yigit Gurdal and Murat Yilmaz), *APA Journal of Neuroscience, Psychology and Economics*, 2016, Vol. 9, No. 3-4, pp. 182-199.
- "Is Informality a Barrier for Convergence?", (N. Ferda Erturk), *Economics Bulletin*, 2016, Vol. 36, No. 4, pp. 2556-2568. .
- "Energy Consumption and the Size of the Informal Economy", (with M. Metin Basbay and O. Torul), 2016. *Economics E-Journal*. No. 2016-14.
- "Shadow Economies in OECD Countries: DGE vs. MIMIC Approaches", (with Friederich G. Schneider), *Bogazici Journal: Review of Social, Economic and Administrative Studies*. 2016, Vol. 30, No. 1, pp. 51-75.
- "Growth and Informality: A Comprehensive Panel Data Analysis", (with Serdar Birinci), *Journal of Applied Economics*. 2016, Vol. 19, No. 2, pp. 271-292.
- "Underground Economy" *The Wiley Blackwell Encyclopedia of Race, Ethnicity, and Nationalism*, 2015, pp. 1-3.
- "Intraocular Pressure Elevation after Intravitreal Triamcinolone Acetonide Injection: A Meta-Analysis", (with Cansu Yuksel Elgin) *International Journal of Ophthalmology*, 2016, Vol. 9, No. 1, pp. 139-144.
- "Tax Enforcement, Technology, and the Informal Sector", (with Mario Solis-Garcia) *Economic Systems*, 2015, Vol. 39, No. 1 pp. 97-120.
- "Technological Progress and Scientific Indicators: A Panel Data Analysis", (with Selman Cakir), *Economics of Innovation and New Technology*, 2015, Vol. 24, No. 3, pp. 263-281.
- "Building human capital to set the Gazelles free: The informal economy" (with M. Arouri and Adel Ben Youssef), *One Billion People One Billion Opportunities: Building Human Capital in Africa*, African Development Bank Publications, 2014, pp. 85-97.
- "Pollution and the Informal Economy", (with Oguz Oztunali), *Economic Systems*, 2014, Vol. 38, No. 3, pp. 333-349.
- "Institutions, Informal Economy, and Economic Development", (with Oguz Oztunali), *Emerging*

- Markets, Finance and Trade*, 2014, Vol. 50, No. 4, pp. 117-134.
- "Environmental Kuznets Curve for the Informal Sector of Turkey (1950-2009)", (with Oguz Oztunali), *Panaeconomicus*, 2014, Vol. Vol. 61, No. 4, pp. 471-485.
- "Determinants of the Weight for Leisure in Preferences", (with Emekcan Yucel), *Economics E-Journal*, 2014, 2014-9.
- "Lurking in the Cities: Urbanization and the Informal Economy", (with Cem Oyvat) *Structural Change and Economic Dynamics*, 2013, Vol. 27, pp. 36-47.
- "Environmental Regulation, Pollution and the Informal Economy", (with Ummad Mazhar), *SBP Research Bulletin*, 2013, Vol. 9, No. 1, pp. 62-81.
- "Current Account Balances and Output Volatility", (with T. Umut Kuzubas) *Economic Modelling*, 2013, Vol. 33, pp. 381-387.
- "Wage-Productivity Gap in OECD Economies", (with T. Umut Kuzubas), *Economics-E Journal*, 2013, 2013-21.
- "Internet Usage and the Shadow Economy: Evidence from Panel Data", *Economic Systems*, 2013, Vol. 37, No. 1, pp. 111-121.
- "Cyclicity of Informal Economy", *Economic Papers*, 2012, Vol. 31, No. 4, pp. 478-490.
- "Religion, Income Inequality and the Size of the Government" Elgin, C., Goksel, T., Gurdal, M. Y. And Orman, C. 2013. *Economic Modelling*, 2013, Vol. 30, No. 1, pp. 225- 234.
- "Public Trust, Taxes, and the Informal Sector" Elgin, C. and Solis-Garcia, M. 2012. *Bogazici Journal: Review of Social, Economic and Administrative Studies*, 2012, Vol. 26, No. 1, pp. 27-44.
- "Wage-Productivity Gap in Turkish Manufacturing Sector", (with T. Umut Kuzubas), *Iktisat, Isletme ve Finans*, 2012, Vol. 27, No. 316, pp. 09-31.
- "Can Sustained Economic Growth and Declining Population Coexist?", (with Semih Tumen), *Economic Modelling*, 2012, Vol. 29, No. 5, pp. 27-44.
- "Taxes and the informal sector: An evaluation and the case for Turkey", *METU Studies in Development*, 2012, Vol. 39, No. 2, pp. 197-235.
- "Unionization and Informal Economy", *Economics Bulletin*, 2012, Vol. 32, No. 3, pp. 2615-2623.
- "Cyclicity of Fiscal Policy and the Shadow Economy", (with Deniz Cicek), *Empirical Economics*, 2011, Vol. 41, No. 3, pp. 725-737.
- "Accounting for Turkish Business Cycles", (with Deniz Cicek), *Iktisat Isletme ve Finans*, 2011. Vol. 26, No. 309, pp. 09-32.
- "Not-quite-great depressions of Turkey: A quantitative analysis of economic growth over 1968-2004", (with Deniz Cicek), *Economic Modelling*, 2011, Vol. 28, No. 6, pp. 2691-2700.

FUNDED RESEARCH
PROJECTS

American University in Bulgaria Sustainable Tourism, 2024-2025 about 20,000 Euros
International Investors Association: Optimal Special Consumption Tax Analysis in Turkey, 2021-2022 about 10,000 USD

Technological and Scientific Research Council of Turkey: Measuring Province-Level Shadow Economy Size in Turkey, 2021-2023 about 10,000 USD

US Embassy in Turkey: Improving Institutional Capacity and Economic Literacy in Turkish Agricultural Cooperatives, 2021-2022, about 38,000 USD

Data Science Institute, Columbia University: Measuring Tax Evasion Using Twitter Feeds, 2020, about 5000 USD

Ministry of Finance and Treasury: Optimal Value-Added Tax Analysis in Turkey, 2017-2018 about 25,000 USD

Technological and Scientific Research Council of Turkey: Business Cycle Accounting: A Cross-Country Analysis, 2015-2017 about 40,000 USD

British Academy: Wage-Led vs. Profit Led Growth: A Comprehensive Empirical Analysis, British Academy, 2015-2017, 46,600 GBP

ACCA Global: Shadow Economies in 2025, 2012-2016, 20,000 GBP

Mastercard Turkey:, Cost of Using Cash vs. Cards: A Comparative Analysis for Turkey, , (2014), (10,000 USD)

Technological and Scientific Research Council of Turkey: Determinants and Causes of the Shadow Economy: Theory, Evaluation and Estimation for Turkey, 2012-201, about 50,000 USD

Double Swing? Synchronization of Informal and Formal Economy Business Cycles, World Bank Grant, about 30,000 USD

Bogazici University Scientific Research Project Fund: Directed Technical Change and Government Policy, 2014-2016, about 6,000 USD

Bogazici University Scientific Research Project Fund:Central Bank Independence and Inflation: Delegation Effect vs. Seesaw Effect, 2014-2015, about 11,000 USD

Bogazici University Scientific Research Project Fund: Accounting for Growth under the Presence of an Informal Economy, 2013-2014, about 10,000 USD

Bogazici University Scientific Research Project Fund: Public Debt, Sovereign Default Risk and Shadow Economy, 2012-2013, about 15,000 USD

Bogazici University Scientific Research Project Fund: Fiscal Policy and Informal Economy over the Business Cycle: Turkey and the EU, 2011- 2012 about 18,000 USD

Marie Curie International Reintegration Grant: Cyclicity of Fiscal Policy and Shadow Economy, 2010-2014, 100,000 Euros.

TEACHING
EXPERIENCE

American University in Bulgaria : **Principles of Macroeconomics** (B.A.)

American University in Bulgaria : **Advanced Topics in Macroeconomics** (B.A.)

American University in Bulgaria : **Economic Policy** (B.A.)

American University in Bulgaria : **Intermediate Economics** (B.A.)

American University in Bulgaria : **Public Finance** (B.A.)

Columbia University : **Mathematical Methods in Economics** (M.A.)

Columbia University : **Public Economics** (B.A.)

Columbia University : **International Trade** (B.A.)

Columbia University : **International Economics** (M.A.)

Boston University : **International Economics** (B.A.)

Boston University : **Economics of Poverty and Discrimination** (B.A.)

Boston University : **Empirical Economics** (B.A.)

Boston University : **Intermediate Microeconomics** (B.A.)

Boston University : **Intermediate Macroeconomics** (B.A.)

Boston University : **Principles of Macroeconomics** (B.A.)

Bogazici University : **Economics of COVID-19** (B.A.)

Bogazici University : **Special Topics in Applied Economics** (B.A.)

Bogazici University : **Special Topics in Research Methodology of Economics** (B.A.)

Bogazici University : **Growth and Development** (B.A.)

Bogazici University : **Economic Policy** (B.A.)

Bogazici University : **Intermediate Macroeconomics** (B.A.)
 Bogazici University : **Principles of Microeconomics** (B.A.)
 Bogazici University : **Principles of Macroeconomics** (B.A.)
 Bogazici University: **Economics of European Integration** (M.A.)
 Bogazici University: **International Macroeconomics** (M.A.)
 Bogazici University: **Graduate Macroeconomics 1 and 2** (M.A.)
 Bogazici University: **Advanced Macroeconomics 1 and 2** (Ph.D.)
 University of Minnesota : **Introduction to Macroeconomics** (B.A.)
 University of Minnesota : **Introduction to Microeconomics** (B.A.)
 University of Minnesota : **Labor Economics** (B.A.)
 University of Minnesota : **Intermediate Microeconomics** (B.A.)
 University of Minnesota : **Intermediate Macroeconomics** (B.A.)
 University of Minnesota : **Quantitative Analysis of the Macroeconomy** (B.A.)

OTHER	05/2021 - 12/2022	Editor, PLOS ONE
PROFESSIONAL	11/2019 - 11/2022	Associate Editor, World Economics Association: Commentaries
APPOINTMENTS	03/2018 - 10/2021	Member, Tax Council of Turkey
	01/2011 - 01/2020	Co-Editor, Bogazici Journal: Review of Economic and Administrative Sciences
	01/2011 - 01/2010	Deputy Director, Center for Economics and Econometrics, Bogazici University
	01/2016 - 01/2018	Deputy Chair, Bogazici University Department of Economics
	01/2016 - 01/2018	Director of Graduate Studies, Bogazici University Department of Economics
LANGUAGES	English (fluent), German (advanced), Turkish (mother tongue), Spanish (intermediate), Greek (intermediate)	
COMPUTER SKILLS	MATLAB, STATA, Python, R, Gauss, Tex, Maple, MS Office, Mathematica	