

# Curriculum Vitae



## 1. Personal details

Surname: Pamukçu  
Name: Mehmet Teoman  
Date of birth: August 22<sup>nd</sup>, 1966  
Place of birth: Ankara  
Citizenship: Turkish  
Marital status: Married

Professor of Science and Technology Policy Studies at the Middle East Technical University ([www.metu.edu.tr](http://www.metu.edu.tr)) Ankara, Turkey.

President of the Department of Science and Technology Policy Studies ([www.stps.metu.edu.tr](http://www.stps.metu.edu.tr)), Graduate School of Social Sciences, Middle East Technical University, Ankara, Turkey.

Member of the Science and Technology Policies Research Centre ([www.stps.metu.edu.tr](http://www.stps.metu.edu.tr)) (METU TEKPOL), Middle East Technical University Ankara, Turkey

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## 2. Education and research interests

**PhD in Economics**, UNIVERSITE LIBRE DE BRUXELLES (1994- 2000).

Thesis: "The nature of technological change and its impact on industrialization in a Newly Industrialized Country: The Turkish case". Supervisor: Professor Henri Capron.

**Master's degree in Econometrics**, UNIVERSITE LIBRE DE BRUXELLES (1989-1991).

**Bachelor's degree in Economics**, UNIVERSITE LIBRE DE BRUXELLES (1984-1988).

**Research fields:** Economics of Innovation, Technological Change and New Technologies, Econometrics of Panel Data & Qualitative and Limited Variables, Economic Development, Technology Spillovers, Technology Transfer, Clusters, Impact Evaluation and Assessment of RTDI Programs, Additionality of RTDI supports, Foreign Direct Investment, Entrepreneurship.

### **3. Professional experience**

**April 15<sup>th</sup>, 2006–present:** Department of Science and Technology Policy Studies, Graduate School of Social Sciences, Middle East Technical University (METU), Ankara, Turkey.”.

**October 2007–October 2008:** Expert at TUBITAK (Scientific and Technological Research Council of Turkey), Division of Science, Technology and Innovation Policies, Ankara (part time).

**January 2005–January 2006:** Research fellow at Henri Tudor Public Research Center, Economics of Knowledge and Innovation Management Unit, Luxembourg.

**May 2003–December 2004:** Research fellow at CREA (Research Center in Applied Economics), Faculty of Law, Economics and Finance, University of Luxembourg, Luxembourg.

**July 2001–March 2003:** Expert at the Belgian Federal Planning Bureau, Brussels, Belgium.

**March 1992–June 2001:** Teaching and research assistant, Université Libre de Bruxelles, Brussels, Belgium.

### **4. Teaching experience and thesis supervision**

#### **4.1 Teaching**

**STPS 501 History of Science and Technology**

**STPS 507 Research Methods in Science and Technology Policies**

**STPS 512 Technological Change in Developing Countries**

**STPS 555 Research Commercialisation and Knowledge-Based Entrepreneurship**

**STPS 601 Technology, Innovation and Economic Development**

**STPS 605 Research Methods and Analytical Techniques**

**STPS 604 Current Issues Science and Technology Policies**

**STPS 611 Topics in Applied Econometrics I**

## 4.2 Supervision of theses

### In progress

- “*Design and its role in innovation*” MSc thesis, Department of Science and Technology Policy Studies, METU, Pınar Yılmaz (2014- )
- “*New approaches to industrial policy and the industrial strategy document of the Republic of Turkey*”, MSc thesis, Department of Economics, METU, Abdurrahman Yıldırım (2013- ) (co-advisor).
- “*Techno-entrepreneurship supports in emerging economies. The case of Turkey*”, PhD thesis, Department of Science and Technology Policy Studies, METU, Ayhan Tözer (2011- ).
- “*Sources and determinants of intra-industry heterogeneity in the innovation process*”, PhD thesis, Department of Science and Technology Policy Studies, METU, Alp Eren Yurtseven (2010- ).
- “*The role of knowledge on economic growth: The case of Turkey*”, PhD thesis, Department of Science and Technology Policy Studies, METU, Fatma M. Utku İsmihan (2010- ).

### Completed

- “*Determinants of firm-level R&D expenditures and analysis of their impact on firm performance in the Turkish economy*”, PhD thesis, Department of Science and Technology Policy Studies, METU, Elif Dayar, 2012.
- “*Examining the impact of foreign firms on technology transfers to domestic suppliers in the Turkish automobile sector*”, PhD thesis, Department of Economics, METU, Alper Sönmez, 2012
- “*The Impact of Technology Level and Structural Change of Exports on the Dynamics of International Competitiveness: A sectoral disaggregated analysis of Turkish manufacturing sector*,” M.Sc. Thesis, Department of Economics, METU, Fatih Şahan, 2012.
- “*Who interacts with whom? Individual and organizational aspects of university-industry interactions in nanotechnology: The Turkish case*” PhD thesis, Department of Science and Technology Policy Studies, METU, Berna Beyhan Bozkırlıoğlu, 2011.
- “*Impact analysis of industrial R&D subsidy programs in Turkey: An appraisal of quantitative approaches*”, PhD thesis, Department of Science and Technology Policy Studies, METU, Vedat Sinan Tandoğan, 2011.
- “*An analysis of innovation and R&D activities of firms in the Turkish medical devices sector*”, MSc thesis, Department of Science and Technology Policy Studies, METU, Ilke Eren, 2011.
- “*Determinants of innovation behaviour: Analysis of 2004-2006 Technological Innovation Survey of Turkey*”, MSc thesis, Department of Science and Technology Policy Studies, METU, Miray Karakuzu, 2010.
- “*Analysis of the technology transfer process in developing countries. The Turkish case*”, MSc thesis, Department of Science and Technology Policy Studies, METU, Can Çetin, 2010.
- “*Evaluation of innovation indicators: The Turkish case as a developing country*”, MSc thesis, Department of Science and Technology Policy Studies, METU, Ayşegül Güner, 2009.
- “*Technology spillovers through foreign direct investment in the Turkish manufacturing sector*”, MSc thesis, Department of Economics, METU, Yeliz Omuzlu Aksoy, 2008.

## 5. Publications and Scientific Activities

### 5.1 International Refereed Journals

- “R&D, Knowledge Diffusion Channels and Productivity: Evidence from Manufacturing Firms in Turkey”, **Journal of Productivity Analysis** (accepted for publication) (with H. Ülkü).
- “Assessing the drivers of R&D activities of firms in developing countries. Evidence from Turkey”, (2014), **The European Journal of Development Research**, 26, 853–869. (with E. Kalaycı).
- “Does R&D Intensity Contribute to Technical Efficiency in Turkey?”, (2014), **İktisat, İşletme ve Finans**, , 29 (336), pp. 9-30 (with E. Kalaycı).
- “The determinants of excess worker turnover in Luxembourg”, (2009), **International Journal of Manpower**, 30(3), 253-268 (with L. Bertinelli, O. Cardi, E. Strobl and R. Thornton)
- “The evolution of the distribution of plant size: Evidence from Luxembourg” (2006), **Small Business Economics**, 27, 301-311 (with L. Bertinelli, O. Cardi and E. Strobl).
- “Trade liberalization and innovation decisions of firms: Lessons from post-1980 Turkey”, (2003), **World Development**, 31(8), 1443-1458.
- “Determinants of innovation activities of firms in a Newly Industrialized Country: An econometric analysis with firm-level data for the Turkish manufacturing sector” (in French), (2001), **Economie et Prévision**, 150-151, pp. 139-158 (with M. Cincera).
- “A dynamic factor demand model with different expectation schemes: An application to the consumption goods sector of Belgium” (in French), (1994), **Cahiers Economiques de Bruxelles**, 143 (3), pp. 317-358.

### 5.2 Other Refereed Journals

- “A Snapshot of the National Research System in Turkey”, 2013, **Izmir Review of Social Sciences**, 1, pp. 21-32 (with E. Erdil and D. Çetin)
- “University organisation within the context of changing university-industry cooperation” (in Turkish), 2012, **Ankara Üniversitesi SBF Dergisi**, 68 (2), pp. 95-127 (with E. Erdil, S. Akçomak and Y. Erden)
- “Ankara Kazan Defense and Aeronautical Cluster Initiative. A case study of a defense industry cluster” (in Turkish), 2012, **Savunma Sanayi Gündemi**, 19, December, pp. 11-14. (with Erdil, E. and C. Durukan)
- “Analysis of technology transfers toward supplier firms in the Turkish automotive industry” (in Turkish), 2011, **ODTÜLÜ Dergisi**, July, 47, pp. 80-84.
- “Global production networks and knowledge transfer mechanisms”, (2010), **International Journal of e-Business and e-Government Studies**, 3(1), online journal (with C. Durukan).
- “Teknoloji, Sanayileşme ve Türkiye: Quo vadimus?” (2001), **Mülkiye Dergisi**, 25, pp. 77-118.

- "Determinants of imports of Turkey: An application of structural decomposition analysis (1968-1990)", (2000), **Yapı Kredi Economic Review**, 11(1), pp. 3-28 (with P. de Boer)
- "Technological change and industrialization: An application of structural decomposition analysis to the Turkish economy (1968-1990)", (1999), **Ekonomik Yaklaşım**, 32(3), pp. 5-30 (with P. de Boer)
- "Evolution of income distribution and poverty in Belgium" (in French), (1996), **Année sociale 1995**, pp. 17-30, Brussels (with J-L Demeulemeester and M. Shungu).
- "A Diploma but for which job? An evaluation of professional integration of young muslim immigrants" (in French), (1996), **Agenda Interculturel**, 144, pp. 24-41, Brussels (with A. Manço).
- "What did we learn from fifty years of existence of the social security system in Belgium?" (in French), (1995), **Année Sociale 1994**, pp. 26-50, Brussels (with M. Shungu).
- "The social impact of public debt and public deficit in Belgium" (in French), (1993), **Année Sociale 1992**, pp. 25-41, Brussels.

### 5.3 Contribution in books

- "Analysing R&D Activities of Foreign Enterprises in Emerging Economies: Lessons from Turkey", 2015, "Foreign Direct Investment" in: David Dyker (ed.), The World Scientific Reference on Globalization in Eurasia and the Pacific Rim: Investment, Innovation, Energy, Migration and Development (4 volumes), Imperial College Press (with E. Erdil) (forthcoming).
- "Assessing Innovation Support in the Turkish Economy. An Impact Assessment Exercise for the period 2008-2010" (in Turkish) (2015) in Emre Özçelik (ed.), Oktar Türel ve Yakup Kepenek'e Armağan Kitap, İmge Yayınevi (with V. Sinan Tandoğan) (forthcoming).
- "Foreign Direct Investment and Technology Spillovers in the Turkish Manufacturing Industry" (2013) in: I. Hakan, Yetkiner, E. Erdil and T. Pamukçu (Eds), Industrial Dynamics, Innovation Policy and Economic Growth through Technological Advancements, USA: IGI Global (formerly Idea Group Publishing), pp. 30-51 (with A. Sonmez).
- "Technology Transfer in the Global Automotive Value Chain - The Case of Turkish Automotive Industry"(2012) in: D. Audretsch L. Lehmann, A. Link and A. Starnecker (Eds), Technology Transfer in a Global Economy, International Handbook Series on Entrepreneurship, Springer, pp. 303-334 (with A. Sonmez).
- "Entry, Exit and Productivity in Turkish Manufacturing Industries" (2010) in K. Sekkat (ed.) Market Dynamics and Productivity in Developing Countries. Economic Reforms in the Middle East and North Africa, Springer, pp. 111-145 (with K. Sekkat and E. Taymaz).
- "Informal economy in Turkey (in Turkish) " (2009) in 21. Yüzyıla Girerken Türkiye, Şirin Tekeli (Ed.), Kitap Yayınevi, İstanbul, pp. 450-475 (with A. H. Köse).
- "Turkey Country Profile: The Road Ahead for Turkey" (2005), contributor, Cairo, Economic Research Forum and Marseille, Institut de la Méditerranée (published under the FEMISE II program with the financial support from the European Commission)
- "Informal economy in Turkey: Its causes and consequences", (2005), in Turkey (in French), Semih Vaner (Ed.), Editions Fayard, France, pp. 317-350 (with A. H. Köse).
- "Information and Communication Technologies and Organisation of Firms", (2003), in Information and Communication Technologies in Belgium: An Analysis of Their Economic and Social Effects (in French), Gijs Dekkers and Chantal Kegels (Eds.), Kluwer Editions, pp. 45-79 (with C. Huveneers).

- “*Trade Liberalization and Innovation Decisions of Firms: A Case Study for Turkish Manufacturing Industries*”, (2002), background paper to Economic Trends in the MENA (Middle East and North Africa) Region 2002 (chapter 4: The transition from the old to the new economy), Cairo, Economic Research Forum.
- “*Did Trade Liberalization Induce a Structural Break in Imports of Manufactures in Turkey?*” (2001), in Modeling of Economic Transition Phenomena, Z. Nahorski and J.W. Owsinski (Eds.), University of Information Technology and Management Press, Warsaw, pp. 198-219 (with A. Bayar, P. de Boer, B. Hobijn and C. M. Mongay).
- “*Sources of Industrial Innovation in a Newly Industrialized Country: A Microeconomic Analysis for Turkish Manufacturing Industries*”, (2001), in Management of Technology. The Key to Prosperity in the Third Millennium, T.M. Khalil, L.A. Lefebvre and L.R. Mason (Eds.), Elsevier Science, pp. 233-247 (with P. de Boer)

### 5.3 Books

- Bilim, Teknoloji ve İnovasyon Elkitabı (“Handbook of Science, Technology and Innovation”), Bilgi Üniversitesi Yayınları, İstanbul, Nisan 2015 (forthcoming in June 2015) (editor with E. Erdil, S. Akçomak, ve M. Tiryakioğlu)
- Industrial Dynamics, Innovation Policy and Economic Growth through Technological Advancements, Hakan, Yetkiner, E. Erdil and T. Pamukçu (eds) (2013), USA: IGI Global (formerly Idea Group Publishing),
- Türkiye Ekonomisinde Yabancı Sermayeli Firmaların Ar-Ge Etkinliklerinin Analizi. Mevcut Durum, Sorunlar ve Çözüm Önerileri (2010), (“*Analysis of R&D activities of foreign firms in the Turkish economy*”), published by the International Investors Association of Turkey (YASED), İstanbul, 80 pages (with Erkan Erdil et al.).

### 5.5 Working papers and research reports

- “Does Government Support for Innovation Matter? The Effectiveness of Public Support for Private Innovation”, **report prepared for the Euro-Mediterranean Forum of Economic Institutes (FEMISE Network)**, 2013, project No FEM 35-18, 81 pages (*W. Grabowski, V. Sinan Tandogan, K. Szczygielski*)
- “Institutional environment, Economic Performance and Innovation in Turkey”, **SEARCH Working Paper, WP5/17**, SEARCH (Sharing Knowledge Assets: Interregionally Cohesive Neighborhoods), European Commission Seventh Framework Program, European Commission, Brussels.
- “Değişen üniversite-sanayi işbirliğinde üniversite örgütlenmesi” (“University organisation within the context of changing university-industry cooperation”), **Science and Technology Policies Research Center (TEKPOL) Working Paper Series**, WP 12/02, 2012- (with E. Erdil, I.S. Akçomak, and Y. Erden)
- “*Technology Transfer in the Global Automotive Value Chain. Lessons from Turkish Automotive Industry*”, **Science and Technology Policies Research Center (TEKPOL) Working Paper Series**, WP 11/09, 2011 (with A. Sonmez).

- “*Nanotechnology research in Turkey: A university-driven achievement*”, **Science and Technology Policies Research Center (TEKPOL) Working Paper Series**, WP 11/07, 2011 (with B.B. Bozkirlioglu).
- “*Individual and Organizational Aspects of University-Industry Relations in Nanotechnology: The Turkish Case*”, **Science and Technology Policies Research Center (TEKPOL) Working Paper Series**, WP 11/06, 2011 (with B.B. Bozkirlioglu and E. Erdil).
- “*Analyzing R&D Activities of Foreign Enterprises in Emerging Economies. Lessons from Turkey*”, **Science and Technology Policies Research Center (TEKPOL) Working Paper Series**, WP 11/04, 2011 (with E. Erdil)
- “*Foreign Direct Investment and Technology Spillovers in the Turkish Manufacturing Industry*”, **Science and Technology Policies Research Center (TEKPOL) Working Paper Series**, WP 11/03, , 2011 (with A. Sonmez).
- “*Analysis of foreign ownership R&D and spillovers in developing countries: Evidence from Turkey*”, **Economic Research Forum for the Arab Countries, Iran and Turkey (ERF) Working Paper Series**, No 642, 2011, 40 pages (with E. Kalayci)
- “*Evaluating effectiveness of public support to business R&D in Turkey through concepts of input and output additionality*”, **Economic Research Forum for the Arab Countries, Iran and Turkey (ERF) Working Paper Series**, No 593, 2011, 36 pages (with V. Sinan Tandogan)
- “*Strategic analysis of the innovation capacity of the ICT sector in Ankara*”, **Report prepared for Ankara Development Agency**, 2011, 360 pages, (with METU TEKPOL team) (in Turkish).
- “*Analysis of research and development (R&D) activities of foreign firms in the Turkish Economy*”, **Report prepared for the International Investors Association of Turkey (YASED)**, 2011, 335 pages (with Erkan Erdil et al.) (in Turkish).
- “*Innovation activities in Turkey in the age of science and technology*”, **Report funded by TUBITAK** (The Scientific and Technological Research Council of Turkey), 2011, 256 pages (in Turkish).
- “*The role of business services on innovation, productivity, employment and exports of Spanish, Turkish and Moroccan Manufacturing Firms*”, **Report prepared for the Euro-Mediterranean Forum of Economic Institutes (FEMISE NETWORK)**, 2010, 83 pages (with L. Achy, M. Dovis, J. Milgram, E. Taymaz and K. Yilmaz).
- “*Spillovers in the MENA region: The Case of Turkey*”, **Economic Research Forum for the Arab Countries, Iran and Turkey (ERF) Working Paper Series**, No 463, 2009, 116 pages (with E. Taymaz)
- “*Trade liberalization and productivity. A comparison of the Spanish and Turkish experiences using firm-level data*”, **Report prepared for the Euro-Mediterranean Forum of Economic Institutes (FEMISE NETWORK)**, 2008, 124 pages (with M. Dovis, J. Milgram, E. Taymaz and K. Yilmaz).
- “*Information technology, competitiveness and decent work: The case of MENA region*”, **Background paper prepared for the ILO workshop on the follow-up of the World Commission on the Social Dimension of Globalization report (“A Fair Globalization: Creating Opportunities for All”)**, 2005, 30 pages.

- “*Impact of trade liberalization on economic growth and employment: A comparative analysis of Morocco and Turkey*”, **Report prepared for the Euro-Mediterranean Forum of Economic Institutes (FEMISE NETWORK)**, 2005, 189 pages (with P. Augier and L. Achy).
- “*Country Profile: Turkey. Macroeconomic policy and recent economic performance*”, **Report prepared for the Economic Research Forum (ERF)**, 2005, 30 pages (with E. Yeldan).
- “*Country Profile: Turkey. Public sector and fiscal policy issues*”, **Report prepared for the Economic Research Forum (ERF)**, 2005, 20 pages (with E. Yeldan).
- “*The impact of minimum wage on employment and wages in Luxembourg’s Economy* (in French)”, **Luxembourg Ministry of Economics Working Paper**, 2004, 160 pages.
- “*Assessing the contribution of Information and Communication Technologies (ICTs) to economic growth in Belgium: A growth accounting analysis*”, **Belgian Federal Planning Bureau Working Paper**, N° 07/04, February 2004, 40 pages.
- “*Constructing productive ICT capital stock series for Belgium*”, **Belgian Federal Planning Bureau Working Paper**, N° 12/02, November 2002, 34 pages (with W. Van Zandweghe).
- “*Measuring ICT capital services for Belgium: A second methodological note*”, **Belgian Federal Planning Bureau internal document** (01/MTP/SD/1521/8773), November 2001, 20 pages.
- “*A measure of ICT and non-ICT capital services for Belgium*”, **Belgian Federal Planning Bureau internal document** (01/WVZ,MTP,BV/SD/1518/8764), September 2001, 37 pages (with W. Van Zandweghe and B. Van den Cruyce).
- “*Trade liberalization and imports of manufactures in Turkey*”, **Econometric Institute, Report 9672/A**, Erasmus University Rotterdam, Rotterdam, The Netherlands, February 1997 (with A. Bayar, P. de Boer, B. Hobijn, C. M. Mongay).
- “*A comparative analysis of telecommunications sector in Turkey and in the European Union*”, **report to the Directorate General Telecommunications, Information Market and Exploitation of Research of the Commission of the European Communities**, Brussels, July 1994 (with Ş. Göçen).

## 6. Participation to international and national conferences (list of selected communications)

- “*The Impact of R&D Spillovers on Technical Inefficiency*”, paper presented to the Anadolu International Conference in Economics III, 19-21 June 2013, Eskişehir, TURKEY (with Elif Dayar).
- “*University Organisation within the Context of Changing University-Industry Cooperation*”, paper presented to the Conference on Exploring Turkey’s Education Policy, METU, Ankara, December 15, 2012 (with E. Erdil, I.S. Akçomak and Y. Erden).
- “*Evaluating Effectiveness of Public Support to Business R&D in Turkey through Input and Output Additionality*”, paper prepared to the Eval2011, 25<sup>th</sup> Annual Conference of American Evaluation Association, November 2-5, 2011, Anaheim, USA (with Sinan Tandoğan).
- “*Individual and organizational factors affecting university-industry links in nanotechnology. The case of Turkey*”, paper presented to the Technology Transfer in a Global Economy, Technology Transfer Society Meetings, September 21-23, 2011, University of Augsburg, Bavaria, Germany (with Berna Beyhan and Erkan Erdil).

- “Technology transfer in the global automotive value chain. The case of Turkish automotive industry”, paper presented to the *Technology Transfer in a Global Economy*, Technology Transfer Society Meetings, September 21-23, 2011, University of Augsburg, Bavaria, Germany (with Alper Sönmez).
- “*Analyzing R&D activities of foreign enterprises in emerging economies. The case of Turkey*”, paper presented to the *Technology Transfer in a Global Economy*, Technology Transfer Society Meetings, September 21-23, 2011, University of Augsburg, Bavaria, Germany (with Erkan Erdil).
- “*Innovation Capability for Development: an attempt to apply Amartya Sen’s Capability Approach to Innovation Studies*”, paper presented to the Human Development and Capability Association (HDCA) International Conference on the theme Innovation, Development and Human Capabilities, September 6-8<sup>th</sup>, 2011, The Hague, The Netherlands (with Okan Kara).
- “*R&D expenditures and productivity at the firm-level. Evidence from the Turkish manufacturing sector*”, paper presented to the Anadolu International Conference in Economics II: Post Crisis Dynamics, 15-17 June 2011, Eskişehir, TURKEY (with Elif Dayar).
- “*Impact of R&D and knowledge spillovers on productivity of manufacturing firms in Turkey*”, paper presented to the Anadolu International Conference in Economics II: Post Crisis Dynamics, 15-17 June 2011, Eskişehir, TURKEY (with Hülya Ülkü).
- “*R&D activities of multinational companies in emerging economies. Analysing the Turkish case*”, paper presented to the Anadolu International Conference in Economics II: Post Crisis Dynamics, 15-17 June 2011, Eskişehir, TURKEY (with Erkan Erdil).
- “*Evaluating effectiveness of public support to business R&D in Turkey through concepts of input and output additionality*”, paper presented at the ERF 17th International Annual Conference, 20-22 March 2011, Antalya, TURKEY (with Sinan Tandoğan).
- “*Analysis of foreign ownership, R&D and spillovers in developing countries: Evidence from Turkey*”, paper presented at the ERF 17th International Annual Conference, 20-22 March, 2011, Antalya, TURKEY (with Elif Dayar).
- “*Foreign ownership, R&D and spillovers in developing countries: Evidence from Turkey*”, paper presented to the International Conference on the Internationalisation of Innovation into Emerging Markets, Brunel Business School, Brunel University, July 14-15, 2010, London, UK (with Elif Dayar).
- “*Foreign direct investment and productivity spillovers in the Turkish manufacturing industry: An econometric analysis with enterprise-level data for the period 2003-2006*”, paper presented to the 4<sup>th</sup> International Conference on Industrial Dynamics, Innovation Policy and Growth, 21-22 May 2010, Izmir, TURKEY (with Alper Sönmez).
- “*How Does Foreign Ownership Affect Turkish R&D?*”, paper presented to the Second European Conference on Corporate R&D (CONCORD-2010): Corporate R&D – An Engine for Growth, a Challenge for European Policy, 3-4 March 2010, Sevilla, SPAIN (with Elif Dayar).
- “*Do R&D expenditures matter for labor productivity in OECD countries?*”, paper presented to the Second European Conference on Corporate R&D (CONCORD-2010): Corporate R&D – An Engine for Growth, a Challenge for European Policy, 3-4 March 2010, Sevilla, SPAIN (with Erkan Erdil, Seyit M. Cilasun, Ayşegül Eruygur)
- “*Determinants of innovation behavior. Analysis of 2004-2006 Technological Innovation Survey of Turkey*”, paper presented to the 3<sup>rd</sup> International Conference on Innovation, Technology and Knowledge Economics, 24-26 June 2009, Ankara, TURKEY (with Miray Karakuzu).
- “*Determinants of R&D decisions of firms in developing countries: The case of Turkey*”, paper presented to the Anadolu International Conference in Economics, 17-19 June 2009, Eskişehir, TURKEY (with Fatma Muazzez Utku İsmihan).

- “*Analyzing the links between export competitiveness and technology transfer. The case of Turkish manufacturing industries in the New Millennium*”, paper presented to the Anadolu International Conference in Economics, 17-19 June 2009, Eskişehir, TURKEY (with Berna Beyhan Bozkırılıoğlu).
- “*Learning how to learn through networks: The case of machinery and furniture sectors in the developing districts of Ankara*”, paper presented to the International DIME Workshop on Local and Sectoral Systems of Innovation- Policy Measures and Possibilities, November 2008, Marburg, GERMANY (with E. Erdil, H.T. Göksidan and M Çolakoğlu)
- “*Testing for wage spillovers to uncover human capital transfers from foreign to domestic firms in the Turkish economy*”, paper presented at the ERF 14th International Annual Conference, 28-30 December 2007, Cairo, EGYPT (with Erol Taymaz).
- “*Globalization, trade liberalization and R&D expenditures in candidate countries: Evidence from the manufacturing sector in Turkey*”, paper presented to the International Conference Knowledge for Growth: Role and Dynamics of Corporate R&D First European Conference, organized jointly by the European Commission’s Joint Research Centre and Directorate General for Research, 8-9 October 2007, Sevilla, SPAIN (with Erkan Erdil).
- “*Technology Spillovers due to Foreign Ownership and Productivity of Domestic Firms: Analyzing the Evidence*”, ERF 13th International Annual Conference, Economic Research Forum (ERF), Cairo, EGYPT, December 2006, 187-230 (with L. Bertinelli and E. Strobl)
- “*Information technology, competitiveness and decent work: The case of MENA region*”, International Labor Organization (ILO) workshop on the follow-up of the World Commission on the Social Dimension of Globalization report (“A Fair Globalization: Creating Opportunities for All”), September 2005, Jordan, JORDAN.
- “*Analysis of the effects of trade liberalization on economic growth and employment: The case of Morocco and Turkey*”, 7<sup>th</sup> international FEMISE Conference, July 2005, Marseille, FRANCE (with Patricia Augier and Lahcen Achy)
- “*Catch-up Based Growth in a Developing Country: A Case Study for Turkish Manufacturing Industries*”, 4<sup>th</sup> Middle East Technical University International Conference on Economics, 13-September 2000, Ankara, TURKEY.
- “*A Structural Decomposition Analysis of Imports of Turkey (1968-1990)*”, 13<sup>th</sup> International Conference of the International Input-Output Association on Input-Output Techniques, August 2000, Macerata, ITALY (with P. de Boer).
- “*Did Trade Liberalization Induce a Structural Break in Imports of Manufactures in Turkey*”, 2<sup>nd</sup> Middle East Technical University International Conference on Economics, September 1998, Ankara, TURKEY (with A. Bayar, P. de Boer, B. Hobijn, C. M. Mongay)
- “*Long-run Structural Transformation, Industrialization and Technological Change: The Turkish Case*”, 2<sup>nd</sup> Middle East Technical University International Conference on Economics, September 1998, Ankara, TURKEY (with P. de Boer)
- “*The Impact of Trade Liberalization on Imports of Manufactures in Turkey*”, Econometric Society European Meeting, August 1996, Istanbul, TURKEY (with A. Bayar, P. de Boer, B. Hobijn, C. M. Mongay)

## 7. Other Scientific Activities

### 7.1 Refereeing (journals)

- *Brussels Economic Review* (2007)
- *Cahiers du CEMOTI* (bi-annual journal published by the *Research Center on Turkish Studies*, Paris) (2004)
- *Economic Systems Research* (2000)
- *METU Studies in Development* (2008)
- *Uluslararası Ekonomi ve Dış Ticaret Politikaları* (2008)
- *World Development* (2007)
- *World Development* (2009)
- *Rekabet Dergisi* (2009)
- *Structural Change and Economic Dynamics* (2010)
- *Emerging Markets, Finance and Trade* (2011)
- *Ankara University SBF Review* (2012)
- *Middle East Development Review* (2013)
- *Brussels Economic Review* (2013)
- *Iktisat, İşletme ve Finans* (2013)
- *Iktisat, İşletme ve Finans* (2014)
- *World Development* (2014)

### 7.2 Evaluator of projects funded by

- TUBITAK (Scientific and Technological Research Council of Turkey), SOBAG November 2007
- TUBITAK (Scientific and Technological Research Council of Turkey), SOBAG May 2009
- TUBITAK (Scientific and Technological Research Council of Turkey), SOBAG May 2009
- TUBITAK (Scientific and Technological Research Council of Turkey), SOBAG December 2012
- TUBITAK (Scientific and Technological Research Council of Turkey), BIDEB January 2013
- TUBITAK (Scientific and Technological Research Council of Turkey), BIDEB April 2013.
- COST (European Cooperation in Science and Technology), April 2013.
- COST (European Cooperation in Science and Technology), December 2013.
- TUBITAK (Scientific and Technological Research Council of Turkey), BIDEB January 2014.
- TUBITAK (Scientific and Technological Research Council of Turkey), SOBAG February 2014.
- TUBITAK (Scientific and Technological Research Council of Turkey), TEYDEB March 2014.
- The Hong Kong University of Science and Technology, May 2014.
- TUBITAK (Scientific and Technological Research Council of Turkey), SOBAG June 2014.
- The Technology Park of the Middle east Technical University, June 2014.
- TUBITAK (Scientific and Technological Research Council of Turkey), BIDEB July 2014.
- TUBITAK (Scientific and Technological Research Council of Turkey), TEYDEB September 2014.

### 7.3 Consultancy

- **Information technology, competitiveness and decent work: The case of MENA region**". International Labor Organization (ILO)
- **"Preparation of the Macro Chapter of the Country Profile for Turkey: Public sector and fiscal policy issues"**, Preparation of a report for Economic Research Forum (ERF) on Arab countries, Turkey and Iran, ERF project CP022-42.
- **"Analysis of R&D activities of foreign firms in the Turkish economy"**, report to International Investors Association of Turkey (YASED) (with E. Erdil)

### 7.4 Project Work

- March 2010–March 2014: **"The Sharing Knowledge Assets: Interregionally Cohesive Neighborhoods (SEARCH)"**, project financed by the European Union under the Seventh Framework Programme for Research and Technological Development in the 'Socio-economic sciences and the humanities' area (FP7-SSH-SSH-2010.2.2.1-266834).
- March 2012–March 2013: **"Does Government Support for Innovation Matter? The Effectiveness of Public Support for Private Innovation"**, *Euro-Mediterranean Forum of Economic Institutes* (FEMISE Network) project, (project FEM 35-18).
- September 2011-March 2012: **"Clustering project for the defense and aeronautical industry at Kazan"**, report prepared for the Undersecretariat of Defense Industry, researcher.
- March-September 2011: **"Report on the evaluation of research centers at the Middle East Technical University"**, project funded by the State Planning Organization, researcher
- January 2011-April 2011: **"Strategic analysis of the innovation capacity of the ICT sector in Ankara"**, project funded by Ankara Development Agency, researcher.
- January 2010-October 2010: **"Analysis of R&D activities of foreign firms in the Turkish economy"**, project funded by YASED (International Investors Association of Turkey), researcher.
- January 2010-December 2010: **"Analysis of technology and knowledge transfers from multinational companies to suppliers in the Turkish automobile industry"**, project funded by TUBITAK (The Scientific and Technological Research Council of Turkey), project director.
- March 2009-March 2010: **"Clustering, international networks and performance of firms: some complement approaches for MENA's convergence"**, Project of *Euro-Mediterranean Forum of Economic Institutes* (FEMISE), researcher, [with L. Achy, Morocco, J. Milgram, University of Granada, E. Taymaz, METU, and K. Yilmaz, Koç University.]
- January 2009-December 2009: **"The impact of Foreign Direct Investment on the productivity of domestic firms in the Turkish manufacturing sector"**, BAP project, BAP-07-03-2009-11, METU, Ankara, Turkey.
- January 2009-December 2009: **"Analysis of technology transfer process in developing countries. The case of Turkey"**, BAP project, BAP-07-03-2009-13, METU, Ankara, Turkey.

- January 2008-January 2009: “**Business services and trade liberalisation. An analysis of their role as drivers of openness, innovation and productivity in Morocco, Spain and Turkey using micro-data**”, Project of *Euro-Mediterranean Forum of Economic Institutes* (FEMISE), researcher, [with L. Achy, Morocco, J. Milgram, University of Granada, E. Taymaz, METU and K. Yilmaz, Koç University].
- August 2007-August 2010: “**Innovation activities in Turkey in the age of science and technology**”, project funded TUBITAK (The Scientific and Technological Research Council of Turkey), project director.
- April 2007-May 2008: “**Entry and exit dynamics of firms, and their impact on firm-level productivity in Jordan, Morocco, Tunisia and Turkey**”, project funded by the International Development Research Center (IDRC), Canada [with Erol Taymaz, METU and Khalid Sekkat, Free University of Brussels].
- January 2007-December 2007: “**The impact of catching up process on productivity and growth in Turkey: An interindustry econometric study**”, BAP project no BAP-2007-07-03-01, METU, Ankara, Turkey.
- April 2007-April 2008: “**Clusters, industry networks and innovation: A study of the machinery and furniture sectors in the greater region of Ankara**”, project funded TUBITAK (The Scientific and Technological Research Council of Turkey), [with Erkan Erdil and Müge Özman, TEKPOL, METU]
- December 2006-December 2008: “**From FDI-based productivity to wage spillovers in the MENA region: The case of Turkey**”, Economic Research Forum (ERF) on Arab countries, Turkey and Iran (ERF) project [with Erol Taymaz, METU] .
- September 2006–September 2007: “**How does trade liberalization affect entry and exit costs on export markets: A comparison of the Spanish and Turkish experience using firm-level data**”, Project of *Euro-Mediterranean Forum of Economic Institutes* (FEMISE), FEMISE project 31-11 [with J. Milgram, University of Granada, E. Taymaz, METU and K. Yilmaz , Koç University.
- January 2005–January 2006: “**Determinants of entrepreneurship in Luxembourg**” (in connection with the pilot project “*Factors of Business Success*” supervised by EUROSTAT), Henri Tudor Public Research Center, Economics of Knowledge and Innovation Management Unit, Luxembourg.
- February 2005–August 2005: “**Analysis of the effects of trade liberalization on economic growth and employment: The case of Morocco and Turkey**”, Project of *Euro-Mediterranean Forum of Economic Institutes* (FEMISE), FEMISE project 22-22-1 [in collaboration with CEPI (France), Sussex University (United-Kingdom) and INSEA (Morocco)].
- May 2003–August 2004: “**The Impact of Minimum Wages on Employment, Distribution of Wages and on the Competitiveness in Luxembourg’s Economy**”, Research Center in Applied Economics, University of Luxembourg (in collaboration with the Ministry of Economics).
- September 2004–December 2004: “**Analysis of the Determinants of the Attractivity of Foreign Direct Investment in Luxembourg**”, Research Center in Applied Economics, University of Luxembourg (in collaboration with the STATEC – Institute of Statistics of Luxembourg).
- July 2001–March 2003: “**Information and Communication Technologies and the Transition of Belgium towards the Information Society**”, Belgian Federal Planning Bureau (in collaboration with Belgian Federal Office for Scientific, Cultural and Technical Affairs).

## 7.5 Organization of Conferences and Workshops

- Member of the organisation committee for the 11<sup>th</sup> International GLOBELICS Conference, organized jointly by METU-TEKPOL, Yıldırım Beyazıt University and Ankara Development Agency, September 11-13, 2013, Middle East Technical University, Ankara, Turkey.
- Course coordinator for the Design and Evaluation of Innovation Policy (DEIP) in an Emerging Country Context (training course), organized jointly by The United Nations University-Maastricht Economic and Social Research and Training Center on Innovation and Technology (UNU-MERIT), METU-TEKPOL and TUBITAK (The Scientific and Technological Research Council of Turkey), December 6-10, 2010 Gebze, TURKEY (with Eddy Szirmai and Semih Akçomak)
- Member of the organizing committee for International Workshop on the Internationalization of R&D, organised jointly by METU-TEKPOL, Joint Research Center (JRC) of the European Commission [IPTS, Institute for Prospective Technological Studies] and TUBITAK (The Scientific and Technological Research Council of Turkey), May 25-26, 2010 Middle East Technical University, Ankara, TURKEY.
- Member of the organisation committee for the 14th Annual International Conference on Economics and Security, organised by METU-TEKPOL and Izmir University of Economy, June 17-18, 2010, Izmir, TURKEY.
- Member of the organisation committee for Technology and Economic Development: Fourth International Conference on Industrial Dynamics, Innovation Policy and Growth, organised by METU-TEKPOL and Izmir University of Economy, May 21-22, 2010, Izmir, TURKEY.
- Member of the organisation committee for Technology and Economic Development: Third International Conference on Innovation, Technology and Knowledge Economics, organised by METU TEKPOL, June 24-26, 2009, Ankara.
- Member of the organisation committee for Technology and Economic Development: Second International Conference on the Dynamics of Science and Technology Policies, organised by METU TEKPOL and Izmir University of Economy, May 25-26, 2007, Izmir.
- Member of the organisation committee of the Conference on Entrepreneurship and Firms Demographics: Factors of Success, organised by Henri Tudor Public Research Center and National Institute of Statistics of Luxembourg (STATEC), November 15, 2005, Luxembourg.

## 7.6 Invited lectures, seminars, participation to workshops and interviews

- Invited lecture on “R&D, Technology Transfer, Spillovers and FDI for Emerging Economies” given at the Competition and Innovation Summer School, organized jointly by COST (European Cooperation in Science and Technology), KUL (Catholic University of Leuven), STRIKE (Science and Technology Research in a Knowledge-based Economy), ZEW (Centre for European Economic Research), May 26-31, 2014, Turunç, Marmaris, TURKEY.
- Interview given to Productivity Talks on factors influencing productivity (in Turkish) March 2013.
- “Impact of R&D and knowledge spillovers on productivity of manufacturing firms in Turkey”, presented to the Competitiveness of Nations Workshop organised by the Enterprise, Technology and Finance (ETF) research group at the University of Manchester, University of Manchester, May 25, 2011, Manchester (with Hulya Ulku),

- Invited lecture on “Evaluation of Innovation Policies: Current Trends in Developing Economies and Turkish Experience” given at the Design and Evaluation of Innovation Policy (DEIP) in an Emerging Country Context (training course), organized jointly by The United Nations University-Maastricht Economic and Social Research and Training Center on Innovation and Technology (UNU-MERIT), METU-TEKPOL, and TUBITAK (The Scientific and Technological Research Council of Turkey), 6-10 December, 2010, Gebze, TURKEY (with Sinan Tandogan).
- “How Does Multinational Companies Affect Activities of Turkish Manufacturing Firms?”, presented at the International Workshop on the Internationalization of R&D organised jointly by METU-TEKPOL, Joint Research Center (JRC) of the European Commission [IPTS, Institute for Prospective Technological Studies] and TUBITAK (The Scientific and Technological Research Council of Turkey), May 25-26, 2010 Middle East Technical University, Ankara, TURKEY (with E. Dayar).
- Invited lecture on “Evaluation of Public Policies for R&D in Emerging Economies. Lessons from a Study for the Turkish Economy” given at the Competition and Innovation Summer School, organized jointly by COST (European Cooperation in Science and Technology), KUL (Catholic University of Leuven), STRIKE (Science and Technology Research in a Knowledge-based economy), ZEW (Centre for European Economic Research), May 17-21, 2010, Turunç, Marmaris, TURKEY (with Sinan Tandogan).
- Seminar on the theme “Impact of Foreign Direct Investment on the Technological Change Process in the Turkish Manufacturing Industry. A Panel Data Analysis for the period 2003-2006”, Econometric Research Association, May 27, 2010, Ankara, TURKEY (with Alper Sönmez).
- Seminar on the theme “Entry and exit dynamics of firms, and their impact on firm-level productivity in the Turkish Manufacturing Industry”, Atılım University, April 7, 2009, Ankara, TURKEY.
- “Role of business R&D in Turkey”, presented at the workshop on the Role of private sector R&D in the catching up of the new Member States, Industrial Research and Innovation Action, Knowledge for Growth Unit, DG Joint Research Centre, IPTS, December 13-14, 2007 Seville, SPAIN (with E. Erdil).
- “How does trade liberalisation affect survival prospects and export behaviour of firms: The Turkish case” presented at the ESF/COST Workshop on “Science and Technology Research in a Knowledge-based Economy, University of Leuven (KUL), October 18-20, 2007 Leuven, BELGIUM (with E. Taymaz and K. Yılmaz).
- “Determinants of Exports and Survival: A Simultaneous Equations Panel Data Model” paper presented at the Workshop on Foreign Competition and Productivity: Evidence from Spanish and Turkish Manufacturing Plants, Koç University, June 25-26, 2007, Istanbul, TURKEY (with E. Taymaz and K. Yılmaz).
- Seminar on the theme “Foreign Direct Investment and Productivity of Firms. An Econometric Study for the Turkish Manufacturing Industry”, State Planning Organization of the Republic of Turkey, January 29, 2007, Ankara, TURKEY.
- Discussant for the paper “Determinants of Productivity in Morocco and Egypt: The role of trade” presented by G. Varela to the Second Fall Workshop on Economics: Heterogeneity of firms, productivity and trade: Empirical and theoretical evidence, organized by the Departamento de Teoría e Historia Económica (University of Granada) and Centro de Estudios Andaluces, November 17-18, 2006, University of Granada, Granada, SPAIN.

## 8. Awards

- *Supervision of the best thesis award* by Parlar Foundation (*Technology spillovers and transfer through MNCs: a case study on Turkish automotive industry* “, PhD Thesis, Department of Economics, METU, Alper Sönmez), 2012.
- METU performance award 2011, 2012 and 2014
- Award received for best paper on institutional economics at the 17th International Annual Conference of Economic Research Forum, 20-22 March, 2011, Antalya, TURKEY (title of the paper: *Evaluating Effectiveness of Public Support to Business R&D in Turkey Through Concepts of Input and Output Additivity* (together with Dr. Vedat Sinan Tandogan)

## 9. Memberships, Affiliations and Representations

- Member of the Board of Management of the International Joseph A. Schumpeter Society (2011-2014)
- Member of the Econometric Research Association
- Research Fellow, Economic Research Forum for the Arab Countries, Iran and Turkey (ERF), Cairo, Egypt.
- Delegate for METU TEKPOL at FEMISE (Euro-Mediterranean Forum of Economic Research Institutes), Marseille, France.
- Delegate for Turkey at the Management Committee of the COST (European Cooperation in the Field of Scientific and Technical Research) Action IS0604 STRIKE - Science and Technology Research In a Knowledge-based Economy (2007-2010)