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Short Curriculum Vitae

**Research Interests**

- Macroeconomic Dynamics, Growth Theory, Mathematical Economics

**Experience**

- Associate Professor  
Bilkent University, Department of Economics, 2015 –
  - Associate professor degree conferred by the Turkish Higher Education Council, January 2008.
- Assistant Professor  
Bilkent University, Department of Economics, 2004 – 2015.
- Project Assistant (RTN, HPRN-CT-2001-00234)  
ORDYS-Technische Universitat Wien, 2004.
- Research Associate  
“Action de Recherches Concertées” project on “New Macroeconomic Perspectives on Development”, IRES-Université catholique de Louvain, 2003-2004.
- Research Fellow  
“Action de Recherches Concertées” project on “Growth and Incentive Design”, IRES-Université catholique de Louvain, 1999-2003.

**Education**

- Ph.D., Economics, Université catholique de Louvain, Louvain-la-Neuve, 2003.
- M.A., Economics, Université catholique de Louvain, Louvain-la-Neuve, 1999.
- M.A., Economics, Bilkent University, Ankara, 1997.
- B.Sc., Industrial Engineering, Bilkent University, Ankara, Turkey, 1995.

## Awards & Honors

- Research Associate of the grant from the French National Research Agency (ARN) for the project “Towards New Approaches and Methods for Economic Dynamics” (French short title: “Novo Tempos”, Long title: "Vers de nouveaux outils pour les dimensions temporelles dans les modèles économiques"). Lead researcher/grant administrator: Professor Jean-Pierre Drugeon, Paris School of Economics (Sorbonne).
- Turkish Academy of Sciences, Encouragement Award in Social Sciences, 2007.
- “The Effect of International Trade on Technical Advancement”, joint with Refet Gurkaynak, Scientific and Technical Research Council of Turkey (TÜBİTAK) Research Grant, 2008-2009.
- DEMOG, Research Training Network, Institute für Wirtschaftsmathematik, Technische Universität Wien, Research Fellowship, 2004.
- Université catholique de Louvain, Institut de Recherches Economiques et Sociales (IRES) Research Fellowship, 1999-2003.
- Bilkent University Graduate Fellowship, 1995-1997.
- Bilkent University Fellowship, 1991-1995.

## Publications

- “Quality of Knowledge Technology, Returns to Production Technology and Economic Development” (with Cuong Le Van) *Macroeconomic Dynamics* 8(2), 147-161, 2004.
- “Technology Adoption under Embodiment: A two stage optimal control approach” (with Raouf Boucekkine and Thomas Vallée) *Macroeconomic Dynamics* 8(2), 250-271, 2004.
- “Optimal Growth Models and the Lagrange Multiplier” (with Cuong Le Van) *Journal of Mathematical Economics* 40(3-4), 393-410, 2004.
- “Development Problem under Embodiment” (with Raouf Boucekkine and Blanca Martinez) *Review of Development Economics* 10(1), 42-59, 2006.
- “Capital maintenance Vs Technology Adoption under Embodied Technical Progress” (with Raouf Boucekkine and Blanca Martinez) *Contributions to Macroeconomics, The Berkeley Electronic Journals in Macroeconomics* 6(1), Article 7, 2006 .
- “Progreso Técnico Incorporado, Adopción” (with Raouf Boucekkine and Blanca Martinez) *Cuadernos Economicos de ICE* 72, 229-254, 2006.
- “Optimal Control in Infinite Horizon: A Sobolev space approach” (with Raouf Boucekkine and Cuong Le Van) *Economic Theory* 32, 497-509, 2007.

- “Innovation, Patent Lifetime and Economic Growth” (with Alberto Bucci) in "Economics of Technical Change", Thomas L. Beane (ed.), New York: Nova Science Publishers, 42-59, 2007.
- “Why Capital Maintenance is a Key Development Tool?” (with Raouf Boucekkine and Blanca Martinez) in “Development and International Economics : Essays in Memory of Michel Norro”, André Nyembwe (ed.), Belgium: Presses Universitaires de Louvain, 75-98, 2008.
- “Role of Endogeneous Vintage Specific Depreciation on the Optimal Behavior of Firms” (with Vladimir M. Veliov) *International Journal of Economic Theory* 4(3), 381- 410, 2008.
- “Why capital maintenance should be a key development tool?” (with Raouf Boucekkine and Blanca Martinez) *The Scottish Journal of Political Economy* 57(5), 547-567, 2010.
- “Existence, Optimality, and Dynamics of Equilibria with Endogenous Time Preference” (with Selman Erol and Cuong Le Van) *Journal of Mathematical Economics* 47, 170-179, 2011.
- “Optimal Pattern of Technology Adoptions under Embodiment: A Multi-Stage Optimal Control Approach” *Optimal Control Applications and Methods* 32(5), 574-586, 2011.
- “Optimal Timing of Regime Switching in Optimal Growth Models: A Sobolev Space Approach” (with Erol Dogan and Cuong le Van) *Mathematical Social Sciences* 61(2), 97-103, 2011.
- “Energy saving technological progress in overlapping generations economies with renewable and non-renewable resources” (with Burcu Fazlıoğlu) *İktisat İşletme ve Finans* 27, 27-56, 2012.
- “Strategic Interaction and Dynamics under endogenous time preference” (with Carmen Camacho and Agah Turan), *Journal of Mathematical Economics* 49(4), 291-301, 2013.
- “Saddle-Node Bifurcations in an Optimal Growth Model with Preferences for Wealth Habit” (with Agah Turan and Hamide Turan), *Studies in Nonlinear Dynamics & Econometrics* 18(2), 145-156, 2013.
- “A Minimally Altruistic Refinement of Nash Equilibrium” (with Emin Karagözoğlu and Kerim Keskin), *Mathematical Social Sciences* 66(3), 422–430, 2013.
- “Complementarities and the Existence of Strong Berge Equilibrium” (with Kerim Keskin), *RAIRO Operations Research* 48(3), 373-379, 2014.
- “General Complementarities on Complete Partial Orders” (with Kerim Keskin and Agah Turan), *Fixed Point Theory and Applications* 2014(101), 2014.
- “On the existence of Berge Equilibrium: An order-theoretic approach” (with Kerim Keskin), *International Game Theory Review*, 17(3), 1550007, 2015.

- “Strategic Ramsey model and catching-up” (with Mehmet Ozer), *Bulletin of Economic Research*, 68(2), 168-181, 2016.
- “Optimal Growth Strategy Under Dynamic Threshold” (with Cuong Le Van and Agah Turan), *Journal of Public Economic Theory*, forthcoming.
- “Hopf bifurcation in an overlapping generations resource economy with endogenous population growth rate” (with Burcu Fazlıoğlu and Kerem Yüksel), *Studies in Nonlinear Dynamics and Econometrics*, forthcoming.
- “Hopf cycles in one sector optimal growth models with time delay” (with Hitay Özbay and Kerem Yüksel), *Macroeconomic Dynamics*, forthcoming.

### **Working Papers**

- “Robust Comparative Statics of Non-monotone Shocks in Large Aggregative Games” (with Carmen Camacho and Takashi Kamihigashi).
- “Sequential Bargaining with Joint Production” (with Esat Doruk Cetemen and Emin Karagözoğlu).
- “Time to Build and Cyclical Fluctuations with Nonconvexities” (with Takashi Kamihigashi and Hamide Turan).
- “Time-to-build lags in resource dynamics” (with Takashi Kamihigashi and Hamide Turan).
- “An Organizational Refinement of Nash Equilibrium” (with Takashi Kamihigashi and Kerim Keskin).
- “Family Ties” (with Carmen Camacho and Takashi Kamihigashi).
- “Dynamic Implications of Endogenous Subsistence Level of Consumption” (with Mehmet Özer and Augustine Perez-Barahona).
- “Strategic bankruptcy in general equilibrium” (with Ngoc-Sang Pham)

### **Professional Societies**

- The International Society of Dynamic Games
- Society for the Advancement Economic Theory

### **Editorial Responsibilities**

- Mathematical Economics Letters, Associate Editor
- Bilim Ve Ütopya, Yayın Kurulu

## **Professional Activities**

### **Ph.D. Thesis Supervision**

- Burcu Fazlıoğlu, “Four Essays on overlapping generations resource economies: optimality, sustainability and dynamics”, 2012.
- Agah Turan, “Essays on endogenous time preference and strategic interaction”, 2013.
- Hamide K. Turan, “Threshold dynamics in one-sector optimal growth framework”, 2014.
- Kerem Yüksel, “Essays on nonlinear dynamics in optimal growth models”, 2014.
- Mehmet Özer, “Heterogeneity in optimal growth models”, 2015.
- Mehmet Fatih Harmankaya, “Hierarchical preferences in resource dynamics”, 2016 (expected).

### **MA Thesis Supervision**

- Ramazan Kardeş, “The effect of endogenous depreciation on the optimal timing of technology adoption”, 2006.
- Erol Doğan, “On the optimal timing of regime switching in optimal growth models: A Sobolev space approach”, 2007.
- Mehmet Özer, “Status-seeking and catching up in the strategic Ramsey model”, 2008.
- Mustafa Kerem Yüksel, “On the existence of Hopf cycles in optimal growth models with time delay”, 2008.
- Mehmet Fatih Harmankaya, “Optimal Timing of an Energy Saving Technology Adoption”, September 2011.
- Sefane Çetin, “Network Dependent Altruism and Economic Growth”, July 2016.

### **Teaching**

ECON 500 Math Review Course  
ECON 505 Macroeconomic Theory I  
ECON 506 Macroeconomic Theory II  
ECON 551 Studies in General Equilibrium and Growth I  
ECON 552 Studies in General Equilibrium and Growth II  
ECON 563 Topics in Macroeconomic Theory I  
ECON 564 Topics in Macroeconomic Theory II  
ECON 205 Macroeconomic Theory I  
ECON 206 Macroeconomic Theory II  
ECON 225 Mathematics for Economists  
ECON 443 Advanced Economic Theory

### **Committees/Work Groups Involved**

- Member, Department of Economics Undergraduate Curriculum (Macroeconomics sequence) Revision Committee, 2014.
- Director of Graduate Studies, Department of Economics, 2011- 2012.
- Member, Junior Faculty Recruitment Committee, Department of Economics, 2004 -
- Organizer, Macroeconomics Seminar Series, Department of Economics, 2010-2012.
- Co-organizer, Graduate Student Macroeconomics Qualifier Exams Evaluation committee, 2004 -
- Member, Graduate Students' Admission committee, 2004 -
- Instructor, Bilkent University "Economics Summer School for High Schools", 2012.