

# Dr. Hasan DUDU

## Contact Information

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## Education

- 2006 January – 2013 December: Ph.D. in Economics (EQF level 8)  
Middle East Technical University - Department of Economics, Ankara (Turkey)  
Supervisors: Erol H. Çakmak and Nadir Ocal  
Thesis Title: Climate Change, Agriculture And Trade Policy: A CGE Analysis at Regional, National and Global Level available online at <http://goo.gl/v7fE8L>
- 2003 September – 2006 January: Master of Science in Economics (EQF level 7)  
Middle East Technical University - Department of Economics, Ankara (Turkey)  
Supervisor: Erol Çakmak  
Thesis Title: Efficiency in Turkish Agriculture: A Farm Household Level Analysis, available online at <http://goo.gl/W7urb>
- 1998 September – 2003 July: Bachelor of Arts (BA) in Economics (EQF level 6)  
Bogazici University - Department of Economics, Istanbul (Turkey)

## Honours and Awards

- 2014 December, Mustafa Parlar Association Best Ph.D. Thesis Award  
2013 June, EconAnadolu Conference, Best Research Article Award

## Professional Training

- Qlik Data Visualisation, organized by European Commission JRC-IPTS, Seville, Spain, 3-5 September 2016  
Qlik Data Modelling, organized by European Commission JRC-IPTS, Seville, Spain, 5-7 September 2016

Introduction to Agent Based Modelling, organized by European Commission JRC-IPTS, Seville, Spain, 13-15 June 2016

Introduction to Java Programming Language, organized by European Commission JRC-IPTS, Seville, Spain, 15-17 November 2015

Introduction to R Language, organized by European Commission JRC-IPTS, Seville, Spain, 7-10 October 2015

Agricultural Modeling in GAMS, organized by European Commission JRC-IPTS, Seville, Spain, 15-17 September 2014

GLOBE Model Course: Introduction to Global Applied General Equilibrium Modeling, organized by Oxford Brookes University, Annapolis MD, USA, 26 July - 1 August 2014.

Public Speaking And Effective Presentations, organized by European Commission JRC-IPTS, Seville, Spain, 25-27 May 2014

Chairing and Conducting Meetings, organized by European Commission JRC-IPTS, Seville, Spain, 08-10 April 2013

Matlab Fundamentals, organized by European Commission JRC-IPTS, Seville, Spain, 28-30 October, 2013

Integrated Assessment of Agricultural Systems (IAAS) at Regional Level, organized by CIHEAM-IAMM, Montpellier, France, 3-6 December 2012

19th Annual GTAP Short Course, organized by Global Trade Analysis Center, Lafayette IN, USA, 6-12 August 2011

## **Work Experience**

2016 March - present:

Scientific Project Officer, European Commission Joint Research Centre Institute for Prospective Technological Studies, Life Sciences in Agriculture Unit - Support to Agricultural Trade and Market Policies Action

Adress: C/ Inca Garcilasso, 3 ES-41092 Seville (Spain)

Web: <https://ec.europa.eu/jrc/ipts> <https://agriflife.jrc.ec.europa.eu>

Responsibilities:

- Analysis of main policy issues related to agricultural and related policies at European and world level;

- Carry out economic research on agriculture and food security in African countries based on economic modelling tools.
  - Development of model code (mainly computable general equilibrium CGE).
  - Write scientific articles and technical reports.
  - Participate in the preparation of institutional and competitive projects.
  - Involve international scientific networks in order to contribute with a sound scientific basis to the decision making process.
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- Follow up research projects under the supervision of the responsible scientific officer.
  - Prepare and maintain tasks and quality plans and track activities against the plan, provide regular and accurate reports.
  - Follow up progress and fulfilment of objectives.
  - Evaluate research results, draft analytical reports, including policy analyses and scientific publications.

2013 February – 2016 January:

Research Fellow, European Commission Joint Research Centre Institute for Prospective Technological Studies, Life Sciences in Agriculture Unit - Support to Agricultural Trade and Market Policies Action

Adress: C/ Inca Garcilasso, 3 ES-41092 Seville (Spain)

Web: <https://ec.europa.eu/jrc/ijpts> <https://agrilife.jrc.ec.europa.eu>

Responsibilities:

- Analysis of main policy issues related to agricultural and related policies at European and world level;
- Related research projects; validation and evaluation of research results; draft reports for policy makers;
- Publishing scientific articles and technical reports, and participation in scientific conferences;
- Cooperation with international organizations and research institutions.
- Leading researcher in the study "Effects of a Green Revolution in Africa" Contributed to 2013 DG-AGRI Outlook
- Leading researcher for the study: "Modelling food waste and food waste reduction in a CGE framework"
- Contributed to the development of the CGE models GLOBE, STAGE and CAPRI RegCGEEU+

- Main Scientific Officer for the project "Development of an analytical tool for long-term (2050+) projections and analysis of various scenarios related to food security, climate change, etc. Case-study 2050."

2011 January – 2011 December

Visiting Research Fellow, Purdue University, West Lafayette (United States),  
Department of Agricultural Economics

Web: <https://ag.purdue.edu/agecon>

Responsibilities:

- Contributed to the project 'The Middle East, North Africa, and Climate Change', directed by Wallace E. Tyner.
- Developed a crop water requirement model
- Developed CGE models for Turkey and Morocco

2004 January – 2013 January ,

Research Assistant, Middle East Technical University, Department of  
Economics, Ankara (Turkey)

Web: [www.metu.edu.tr](http://www.metu.edu.tr), [www.econ.metu.edu.tr](http://www.econ.metu.edu.tr)

Responsibilities:

- Participating in national/international projects on behalf of the institution as a researcher
- Publishing research articles and reports
- Teaching several courses on economics as principal instructor and teaching assistant
- Served as coordinating assistant and managed distribution of responsibilities among 20 research assistants
- Built and managed department website for more than 10 years
- Served as editorial assistant for the academic journal METU Studies in Development
- Carrying out departmental administrative duties

## **Research Experience**

2013 October - Current:

Researcher, "Food and Nutrition Security for Sub Saharan Africa (FNS4AFRICA)" financed by DG-DEVCO and commissioned by JRC-IPTS

2013 October - 2014 October:

Project Manager, "Development of an analytical tool for long-term (2050+) projections and analysis of various scenarios related to food security, climate

change, etc. Case-study 2050." financed by JRC-IPTS and contracted to Leibniz Institute for Agricultural Development in Transition Economies (IAMO)

2009 January – 2013 January

Research Assistant, "CAPRI–RD: Common Agricultural Policy Regionalized Impact - The Rural Development Dimension Project" financed by European Commission 7th Framework Programmé. Project No. 226195

2006 January – 2011 March:

Researcher, "SCENES: Water Scenarios for Europe and for Neighbouring States Project" financed by European Commission, 6th Framework Programmé. Contract No. 036822

2010 February – 2010 December:

Research Assistant, in the project "State Planning Organization Province Coordination and Monitoring System", financed by Public Research Group of Turkish Science & Technological Research Council of Turkey and commissioned by Software and Data Engineering Department (G222) of Turkish Science & Technological Research Council of Turkey

2009 September – 2009 December

Researcher, in the project "Anatolia Minerals Co. Erzincan Çöpler Gold Mine Project Conflict and Human Rights Assesment", financed by Anatolia Minerals Co. and commissioned by METU Centre for Blacksea and Central Asia Studies and Fund For Peace Institution

2009 September – 2010 December

Researcher, "The Impact of Agricultural Enterprises on Productivity and Efficiency of Agricultural Production in Turkey and Chaotic Dynamic Analysis of Selected Products: Problems, Solutions and Policy Proposals Project, financed by Social Sciences Research Group of Turkish Science & Technological Research Council of Turkey, Project No. SOBAG 1001-109K129.

2009 September – 2010 April

Technical Assistant: in the project "Supporting Turkey's Efforts in Migration Management", financed by International Organization for Migration

2009 June – 2009 September

Researcher, in the project "Anatolia Minerals Co. Erzincan Çöpler Gold Mine Project Social Impact Analysis", financed by Anatolia Minerals Co. and

commissioned by METU Centre for Blacksea and Central Asia Studies and Environmental Resources Management Consulting

2008 December – 2009 January

Research Assistant, in the project "Efficiency Analysis of Forest Revolving Fund Enterprises in Turkey: Problems, Solutions and Policy Recommendations", financed by Social Sciences Research Group of Turkish Science & Technological Research Council of Turkey, Project No. SOBAG 1002-107K552.

2006 June – 2008 June

Researcher, in the project, "Macro-Micro Feedback Links of Irrigation Water Management" financed by World Bank.

2005 December – 2006 December

Researcher, in the project "Efficiency Structure of Turkish Agriculture" financed by Social Sciences Research Group of Turkish Science & Technological Research Council of Turkey, Project No. SOBAG 1001-105K030.

2003 August – 2006 May

Research Assistant, in the project "EUMED-AGPOL: Impacts of Agricultural Trade Liberalization between the EU and Mediterranean Countries" financed by European Commission, 6th Framework Programmé. Project No. SSPE-CT-2004-502457

## **Publications**

### **Journal Articles**

#### Indexed in SCI or SSCI

Boulanger, P., Dudu, H., Ferrari, E., Philippidis, G., 2016, Russian Roulette at the Trade Table: A Specific Factors CGE Analysis of an Agri-food Import Ban, Journal of Agricultural Economics, 67(2): 272-291,

[doi:10.1111/1477-9552.12156](https://doi.org/10.1111/1477-9552.12156)

Çakmak, E., Dudu, H., Eryugur, O., Ger, M., Onurlu S., Tonguc, Ö., 2013, Participatory Fuzzy Cognitive Mapping Analysis to Evaluate the Future of Water in the Seyhan Basin, Journal of Water and Climate Change 4(12): 131-145, [doi:10.2166/wcc.2013.029](https://doi.org/10.2166/wcc.2013.029)

Çakmak, E.H., Dudu, H., Saraçoğlu, D. S., 2010, "Climate Change and Agriculture in Turkey: A CGE Modelling Approach", *Iktisat İşletme ve Finans Dergisi*, 25(286):9-33, [doi: 10.3848/iif.2010.286.2577](https://doi.org/10.3848/iif.2010.286.2577)

#### Not Indexed in SCI or SSCI

Kılıçaslan, Y., Çağlarırnak Uslu, N., Dudu, H., Alptekin, N., Demir, B., 2015, Tarımsal Üretimde Girdi Kullanımının Etkinliği: Türkiye'den Kanıtlar [Input Use Efficiency in Agricultural Production: Evidence from Turkey] (in Turkish), *Iktisat İşletme ve Finans Dergisi*, 30(347):37-68. [doi: 10.3848/iif.2014.347.4268](https://doi.org/10.3848/iif.2014.347.4268)

Dudu, H., Çakmak, E.H., Öcal, N., 2015, Drivers of Farm Efficiency in Turkey: A Stochastic Frontier Analysis, *World Journal of Applied Economics*, 1(1): 45-63. [doi:10.22440/EconWorld.J.2015.1.1.HD.0005](https://doi.org/10.22440/EconWorld.J.2015.1.1.HD.0005)

#### **Books**

Çakmak, E.H., Dudu, H., Ocal, N., 2008, *Türk Tarım Sektöründe Etkinlik: Yöntem ve Hanehalkı Düzeyinde Nicel Analiz [Efficiency in Turkish Agricultural Sector: Method and Farm Household Level Quantitative Analysis]*, (in Turkish) TEPAV Yayınları: Ankara available at <http://goo.gl/qln4A>

#### **Book Chapters**

van Vliet, M., Flörke, M.; Varela-Ortega, C., Çakmak, E. H., Khadra, R.; Esteve, P., D'Agostino, D., Dudu, H., Bärlund, I., Kok, K., 2017, FCMs as a common base for linking participatory products and models, in "*Environmental Modeling with Stakeholders*" eds. Gray, S., Paolisso, M., Jordan, R., Gray, S., Springer (in print) [doi:10.1007/978-3-319-25053-3](https://doi.org/10.1007/978-3-319-25053-3)

Çakmak, E.H., Dudu, H., 2011, Agricultural Policy Reform in Turkey: Sectoral and Micro Implications, in "*Rethinking Structural Reform in Turkish Agriculture: Beyond the World Bank's Strategy*", eds. Karapınar, B., Adaman, F., and Ozertan, G., Nova Science Publishers: New York available at <http://goo.gl/Fr4jh>

Dudu, H., Kılıçaslan, Y., 2008, Concentration, Profitability and (In)Efficiency in Large Scale Firms, in "*Productivity, Efficiency, and Economic Growth in the Asia-Pacific Region*", eds. Lee J.D. and Heshmati, A., Springer-Verlag: Berlin Heidelberg; available at <http://goo.gl/JhOSr>

## Technical, Scientific and Policy Reports

Boulanger, P., Dudu, H., Ferrari, E., Himics, M., and M'barek, R.; Cumulative Economic Impact of Future Trade Agreements on EU Agriculture; EUR 28206 EN; [doi:10.2788/194880](https://doi.org/10.2788/194880)

Çakmak, E. H., Dudu, H., 2013, "Economic Growth in the Euro-Med Area through Trade Integration: Focus on Agriculture and Food. The Case of Turkey", JRC Science and Policy Reports No. 84201, Luxembourg: Publications Office of the European Union. [doi: 10.2791/68185](https://doi.org/10.2791/68185) available at <http://goo.gl/BBnxD>

Çakmak, E.H., Dudu, H., Saracoglu, S., Diao, X., Roe, T.L., Tsur, Y., 2008, Macro-Micro Feedback Links of Irrigation Water Management in Turkey, World Bank Policy Research Working Paper Series, No. WPS 4781, [doi: 10.1596/1813-9450-4781](https://doi.org/10.1596/1813-9450-4781) , available online at <http://goo.gl/C97jZ>

Dudu, H., Chumi, S., 2008, Economics of Irrigation Water Management: A Literature Survey with Focus on Partial and General Equilibrium Models, World Bank Policy Research Working Paper, No. WPS 4556, available online at <http://goo.gl/LX3gT>

## Working Papers

Dudu, H., Çakmak, E. H., 2014, An Integrated Analysis of Economy-wide Effects of Climate Change, WIDER Working Paper No. 2014/106, United Nations University-World Institute for Development Economics Research:Helsinki, available at <http://goo.gl/Ws2Bon>

Ouraich, I., Dudu, H., Tyner, W.E., Çakmak,E., 2014, Could free trade alleviate effects of climate change? A worldwide analysis with emphasis on Morocco and Turkey, WIDER Working Paper No. 2014/100, United Nations University-World Institute for Development Economics Research:Helsinki, available at <http://goo.gl/xFhYnU>

Dudu, H., Çakmak, E. H., 2011, "Regional Impact of the Climate Change: A CGE Analysis for Turkey", Working Paper No. 644, Economic Research Forum, available online at <https://goo.gl/xskSAS>



## Project Reports

- Çakmak, E.H., Dudu, H., 2013, "Country Case Report: Turkey", After the Crisis: Economic Growth in the Euro-Med Area Through Trade Integration Project, Deliverable 6, JRC-IPTS, Contract No. ENGAGE 152039.X13
- Çakmak, E.H., Dudu, H., Eryugur, O., Aldan, M.C., 2011, "Improving National and Regional Time Series Database for Turkey", CAPRI-RD: Common Agricultural Policy Regionalized Impact - The Rural Development Dimension Project, Deliverable 2.3.3, European Commission 7th Framework Programmé, Project No. 226195, available online at <http://goo.gl/qaOCI>
- Çakmak, E.H., Dudu, H. 2010, "Agricultural Support Policy Reform Program of Turkey: Lessons Learned and Assessment", Trade and Agriculture Directorate, OECD, Paris.
- Çakmak, E., Dudu, H., Eryugur, O., Tonguc, Ö., Aldan, M.C., 2010, "Regional and National Data Sources Available for Turkey", CAPRI-RD: Common Agricultural Policy Regionalized Impact - The Rural Development Dimension Project, Deliverable 2.3.2, European Commission, European Commission 7th Framework Programmé, Project No. 226195, available online at <http://goo.gl/WyEgB>
- Çakmak, E., Dudu, H., Eryugur, O. H., Tonguç, Ö., 2010, "Third versions of storylines (enriched with back casting and short term policy options) at the Regional and Pilot Area levels: Seyhan Pilot Area, Turkey", SCENES: Water Scenarios for Europe and for Neighbouring States Project, Deliverable DIA2.4/Annex-6, European Commission 6th Framework Programmé, Contract No. 036822, available online at <http://goo.gl/icbTk>
- Çakmak, E., Dudu, H., Eryugur, O. H., Tonguç, Ö., 2009, "Enriched sets of drivers, storylines and conceptual models at the Regional and Pilot Area levels: Seyhan Pilot Area Turkey", SCENES: Water Scenarios for Europe and for Neighbouring States Project, Deliverable DIA2.3/D.3, European Commission 6th Framework Programmé, Contract No. 036822, available online at <http://goo.gl/icbTk>
- Çakmak E.H., Eryugur, O., Dudu, H., 2006, "Turkish Production and Export Potential for Fruits, Vegetables, Olive Oil, and Processed Foods An Expert Panel Analysis", EUMED-AGPOL: Impacts of Agricultural Trade Liberalization Between The EU and Mediterranean Countries Project,

Deliverable 17, European Commission 6th Framework Programme, Project No. SSPE-CT-2004-502457, available online at <http://goo.gl/BjKdp>

Çakmak, E.H., Tozanli, S., Dudu, H., Kirisci, E. N., 2004 "Characterization of Agricultural and Agro-Industrial Sectors in Turkey", EUMED-AGPOL: Impacts of Agricultural Trade Liberalization Between The EU and Mediterranean Countries Project, Deliverable 3, European Commission, 6th Framework Programme, Project No. SSPE-CT-2004-502457, available at <http://goo.gl/BjKdp>

### **Editorial Duties**

2014 June - current: Associated Editor, World Journal of Applied Economics

2009 June – 2011 January: Technical Manager, Spectrum: Journal of Global Studies

2008 March – 2009 June: Advisor to the Editor, İktisat, İşletme ve Finans Dergisi

2005 January – 2009 February: Editorial Assistant, METU Studies in Development

### **Peer Reviews**

İktisat İşletme ve Finans Dergisi, Economic Modelling, Global Public Health  
Water Economics and Policy

### **Professional Activities**

2014 - present, Member of Organization Committee, World Economic Society International Conference in Economics

2014, Member of Program Committee, Harran National Conference in Economics, Sanliurfa, Turkey, 23-24 October

2009 - present, Member of Program Committee, EconAnadolu: Anadolu International Conference in Economics

2009 - present, Member of Organization Committee, ICOPEC: International Conference of Political Economy: Labor Markets and Employment

2005 September – 2009 September: Member of Board of Executives and Treasurer, Middle East Technical University Faculty Association,

## **Languages**

Turkish: Mother tongue

English: Proficient user (C2)

Spanish: Intermediate user (A2)

[Common European Framework of Reference for Languages](#)

## **Computer skills**

Advanced Level: GAMS, STATA, R, GRET, Office Applications, Qlik

Intermediate Level: Qlik, LIMDEP, Eviews, Netlogo, SPSS, RATS, GEMPACK,

## **References**

Will be supplied upon request.