



|                              |  |   |
|------------------------------|--|---|
| <b>CONTACT INFORMATION</b>   | Eskisehir Osmangazi University<br>College of Economics and Administrative Sciences<br>Department of Economics, Office A1-21<br>Eskisehir, 26040 Turkey   | <b>Phone:</b> +90 (539) 794-0221<br><b>Email:</b> omer.kara.ylsy@gmail.com<br><b>Academy:</b> ORCID iD Google Scholar Scopus<br><b>Personal:</b> LinkedIn ResearchGate Academia.edu YouTube |
| <b>RESEARCH INTERESTS</b>    | <b>Primary:</b> Spatial Econometrics, Panel Data Econometrics, Time-Series Econometrics, Data Science<br><b>Secondary:</b> Applied Microeconomics, Applied Macroeconomics, Agricultural Economics, Cryptoeconomics   |   |
| <b>INDUSTRY INTERESTS</b>    | <b>Primary:</b> Econometrician, Data Scientist, Consultant<br><b>Secondary:</b> Quantitative Analyst, Software Developer   |   |
| <b>ACADEMIC APPOINTMENTS</b> | <b>Faculty Member, Ph.D.</b><br>Department of Economics<br>Eskisehir Osmangazi University, Eskisehir, Turkey   | January 2019 – Present  |
|                              | <b>Postdoctoral Researcher</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | May 2018 – August 2018  |
| <b>EDUCATION</b>             | <b>Ph.D., Economics</b><br>North Carolina State University, Raleigh, NC, USA <ul style="list-style-type: none"> <li>• Dissertation: <i>Three Essays in Applied Spatial and Time Series Econometrics</i> <a href="#">[6]</a></li> <li>• Advisor: Dr. Barry Goodwin</li> <li>• Area of Study: Time Series Econometrics and Spatial Econometrics</li> </ul>   | May 2018  |
|                              | <b>M.S., Agricultural and Resource Economics</b><br>North Carolina State University, Raleigh, NC, USA  | August 2012   |
|                              | <b>B.A., Economics</b><br>Bahcesehir University, Istanbul, Turkey  | July 2008   |
| <b>INDUSTRY EXPERIENCE</b>   | <b>Software Developer</b><br>CHS Inc., Inver Grove Heights, MN, USA <ul style="list-style-type: none"> <li>• Job: Building the “Crack Spread Platform”, a shiny web app (in progress)</li> <li>• Tools: R, R Markdown, shiny, HTML, CSS, Azure DevOps, Git, ETL, EDA</li> </ul> <b>Software Developer</b><br>CHS Inc., Inver Grove Heights, MN, USA <ul style="list-style-type: none"> <li>• Job: Building the “Hog Crush Platform”, a shiny web app (in marketing)</li> <li>• Tools: R, R Markdown, shiny, HTML, CSS, Azure DevOps, Git, ETL, EDA</li> </ul> <b>Data Scientist</b><br>The World Bank, Washington, DC, USA <ul style="list-style-type: none"> <li>• Job: Sierra Leone CEM - Agriculture Sector Deep Dive</li> <li>• Tools: FAOSTAT, R, R Markdown, ETL, EDA</li> </ul> <b>Data Scientist and Econometrician</b><br>CHS Inc., Inver Grove Heights, MN, USA <ul style="list-style-type: none"> <li>• Job: Churn Loss Analysis</li> <li>• Tools: Statistics, Econometrics, Machine Learning, R, R Markdown, ETL, EDA</li> </ul> | January 2022 – Present<br>August 2021 – Present<br>June 2023 – December 2023<br>July 2022 – January 2023  |

|                                      |   |
|--------------------------------------|---|
| <b>REFEREED JOURNAL PUBLICATIONS</b> | <p>[1] Acaroğlu, H., Najafi, A., <b>Kara, Ö.</b>, &amp; Yürük, B. (2021). An Economic and Technical Review for the Utilization of HVDC in Turkey and in the World. <i>Konya Journal of Engineering Sciences</i>, 9(3), 809–835. <a href="#">doi</a></p> <p>[2] Acaroğlu, H., Baykul M. C., &amp; <b>Kara, Ö.</b> (2025). A Life-Cycle Cost Analysis on Photovoltaic (PV) Modules for Türkiye: The Case of Eskisehir's Solar Market Transactions. <i>Sustainability</i>, 17(24), 11023. <a href="#">doi</a></p>  |
| <b>CONFERENCE PRESENTATIONS</b>      | <p>[1] <b>Kara, Ö.</b> (2020). Price Dynamics and Structural Breaks in Speculative Markets: A Case Study of Cryptocurrency. <i>International Conference on Economics (EconTR2020@Eskişehir)</i>, Eskişehir, Türkiye, 10–12 September 2020.</p> <p>[2] <b>Kara, Ö.</b> (2020). Identifying and Understanding the Structural Break in Meat Demand in the USA. <i>International Conference on Economics (EconTR2020@Eskişehir)</i>, Eskişehir, Türkiye, 10–12 September 2020.</p>  |
| <b>OTHER PUBLICATIONS</b>            | <p>[1] <b>Kara, Ö.</b> (2018). Emek piyasası, İstihdam ve İşsizlik. <i>Makroekonomi: Politika ve Uygulama</i> (pp. 544–570). Ankara: Nobel Yayın Dağıtım. <i>Book Chapter Translation</i>.</p>  |
| <b>WORKING PAPERS</b>                | <ul style="list-style-type: none"> <li>• “Dynamics of U.S. Housing and Primary Building Materials in the Presence of Structural Break”</li> <li>• “The Impact of Religion on Environmental Performance: Applied Spatial Econometrics”</li> <li>• “Price Dynamics and Structural Breaks in Speculative Markets: A Case Study of Cryptocurrency”</li> <li>• “Structural Break in U.S. Meat Demand: Evidence from the LA/AIDS Model”</li> <li>• “The Effect of the Quality of Institutions on Agricultural Productivity”</li> <li>• “A Novel Perspective for Productive Manufacturing of Photovoltaic (PV) Cells in Eskisehir, Türkiye” (with Dr. Hakan Acaroğlu and Dr. Mevlana Celalettin Baykul)</li> <li>• “Economic, Social, Environmental, and Institutional Factors Shaping Onshore Wind LCOE in Europe: Evidence from Spatial Panel Models” (with Dr. Hakan Acaroğlu)</li> </ul> |
| <b>WORKS IN PROGRESS</b>             | <ul style="list-style-type: none"> <li>• “Economic Consequences of Foreign Player Restriction in European Soccer Leagues”</li> <li>• “Price Dynamics Between Cryptocurrency, Fiat Money, Stocks, Gold, and Oil: Before and After COVID-19” (with İlknur Büşra Çakır)</li> <li>• “The Impact of the Quality of Institutions on Income: Evidence from a Dynamic Spatial Panel Model with Common Factors” (with Selen Serenay Silvan)</li> </ul>   |
| <b>ACADEMIC SERVICE</b>              | <p><b>Erasmus Coordinator</b> January 2019 – Present<br/>Department of Economics<br/>Eskisehir Osmangazi University, Eskisehir, Turkey</p> <p><b>Editorial Service</b> <ul style="list-style-type: none"> <li>• English Language Editor, Eskisehir Osmangazi Üniversitesi İktisadi ve İdari Bilimler Dergisi</li> </ul> </p> <p><b>Referee Service</b> <ul style="list-style-type: none"> <li>• Çankırı Karatekin Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi</li> </ul> </p>   |
| <b>WORKHOPS GIVEN</b>                | <p><b>Shiny mini BootCamp</b> May 2024<br/>Department of Business and Quantitative Studies<br/>University of Naples Parthenope, Naples, Italy <ul style="list-style-type: none"> <li>• During the Erasmus+ KA131 Teaching Mobility program.</li> <li>• Two days of Shiny bootcamp given to undergraduate students in Dr. De Luca's lecture.</li> <li>• Developed and lectured theoretical teaching materials and hands on application files.</li> <li>• Detailed Information: <a href="#">Shiny mini BootCamp</a></li> </ul> </p>   |

|   |  |               |
|---|--|---------------|
|   | <b>R mini BootCamp</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA<br><ul style="list-style-type: none"> <li>• Three days of R bootcamp given to undergraduate students in NCSU.</li> <li>• Developed and lectured theoretical teaching materials and hands on application files.</li> <li>• Detailed Information: <a href="#">R mini BootCamp</a></li> </ul>  | February 2018 |
| <b>TECHNICAL SKILLS</b>                           | <ul style="list-style-type: none"> <li>• <b>Programming:</b> R, Python, SQL, Stata, SAS, MATLAB, GAUSS</li> <li>• <b>Data Science:</b> Statistics, Econometrics, Machine Learning, Web Scraping, ETL, EDA</li> <li>• <b>GIS:</b> Geo-Spatial Data, ArcGIS, QGIS, GeoDa</li> <li>• <b>Digital Typesetting:</b> L<sup>A</sup>T<sub>E</sub>X, Markdown</li> <li>• <b>Other Skills:</b> R Markdown, shiny, Shell, Git, Azure DevOps, Reproducible Research</li> </ul>  |               |
| <b>CERTIFICATIONS AND CERTIFICATES</b>            | <p><b>Certifications</b></p> <ul style="list-style-type: none"> <li>• Data Scientist Associate Certification, DataCamp  January 2023 – January 2025</li> </ul> <p><b>Certificates</b></p> <p>*Only selected certificates are shown. More information can be found on my web site.</p> <ul style="list-style-type: none"> <li>• Data Scientist Professional with R, DataCamp</li> <li>• Data Scientist with R, DataCamp</li> <li>• Data Analyst with R, DataCamp</li> <li>• R Programmer, DataCamp</li> <li>• Data Scientist with Python, DataCamp</li> <li>• Data Analyst with Python, DataCamp</li> <li>• Python Programmer, DataCamp</li> <li>• Statistical Inference, Coursera</li> <li>• Reproducible Research, Coursera</li> <li>• Exploratory Data Analysis, Coursera</li> <li>• Getting and Cleaning Data, Coursera</li> <li>• R Programming, Coursera</li> <li>• The Data Scientist's Toolbox, Coursera</li> <li>• Maps and the Geospatial Revolution, Coursera and PennState</li> <li>• SAS Programming 2: Data Manipulation Techniques, SAS</li> <li>• SAS Programming 1: Essentials, SAS</li> <li>• SAS Programming Introduction: Basic Concepts, SAS</li> </ul> |               |
| <b>SCHOLARSHIPS FELLOWSHIPS HONORS AND AWARDS</b> | <ul style="list-style-type: none"> <li>• <b>Graduate Research Assistantship</b><br/>North Carolina State University, Raleigh, NC, USA August 2016 – January 2017</li> <li>• <b>Graduate Teaching Assistantship</b><br/>North Carolina State University, Raleigh, NC, USA August 2013 – May 2018</li> <li>• <b>Scholarship for Graduate Education in the U.S.</b><br/>Ministry of National Education, Ankara, Turkey August 2010 – August 2017<br/>Full-tuition scholarship including stipend, health insurance, and travel expenses.</li> <li>• <b>Grant for Outstanding Academic Performance</b><br/>Bahcesehir University, Istanbul, Turkey September 2005 – June 2007<br/>Stipend for attaining a GPA of at least 3.8 for four semesters.</li> <li>• <b>Scholarship for Undergraduate Education</b><br/>Bahcesehir University, Istanbul, Turkey September 2003 – June 2008<br/>Full-tuition scholarship including stipend.</li> </ul>   |               |

**RESEARCH  
EXPERIENCE**

|   |                            |
|---|----------------------------|
| <b>Postdoctoral Researcher</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA  | May 2018 – August 2018     |
| <ul style="list-style-type: none"> <li>• Project Details:           <ul style="list-style-type: none"> <li>- Funding: USDA Forest Service</li> <li>- Supervisor: Dr. Barry Goodwin and Dr. Jeffrey Prestemon</li> <li>- Project Title: “Understanding Global Forest Product Market Effects of Trade Measures to Address Illegal Wood Fiber Sourcing”</li> </ul> </li> <li>• Created a collaborative reproducible research environment using Git, R, R Markdown.</li> <li>• Accelerated data collection/cleaning and statistical/exploratory data analysis steps with flexible user-written R functions and check procedures.</li> </ul> |                            |
| <b>Research Assistant</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | August 2016 – January 2017 |

|  |                            |
|--|----------------------------|
| <b>Research Assistant</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA  | August 2016 – January 2017 |
| <ul style="list-style-type: none"> <li>• Project Details:           <ul style="list-style-type: none"> <li>- Funding: North Carolina State University</li> <li>- Supervisor: Dr. Barry Goodwin</li> <li>- Project Title: “Dynamics of U.S. Housing and Primary Building Materials in the Presence of Structural Breaks”</li> </ul> </li> <li>• Created a conceptual framework, collected data in a reproducible way, and performed a through econometric analyses on R and GAUSS.</li> </ul> |                            |
| <b>Independent Instructor</b><br>Department of Economics<br>Eskisehir Osmangazi University, Eskisehir, Turkey  | January 2019 – Present     |

**TEACHING  
EXPERIENCE**

|   |                         |
|---|-------------------------|
| <b>Independent Instructor</b><br>Department of Economics<br>Eskisehir Osmangazi University, Eskisehir, Turkey   | January 2019 – Present  |
| <ul style="list-style-type: none"> <li>• Created course design, lecture format, course materials, and online assessment materials.</li> <li>• Authored course materials are available at the Akademi Ekonometri Web Site.</li> <li>• Course videos are available on Akademi Ekonometri YouTube Channel.</li> <li>• Courses in English: Economics</li> <li>• Courses in Turkish: Econometrics I, Econometrics II, Econometrics, Time Series Analysis, Econometric Research I, Econometric Research II, Economics, Introduction to Economics I, Econometric Modelling and Time Series Analysis - Masters, Financial Econometrics - Masters, Semester Project - Masters</li> </ul> |                         |
| <b>Teaching Assistant</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | January 2017 – May 2018 |

|   |                         |
|---|-------------------------|
| <b>Teaching Assistant</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | January 2017 – May 2018 |
| <ul style="list-style-type: none"> <li>• Assisted Dr. Margolis and Dr. Fiori with grading assignments and exams.</li> <li>• Courses: Intermediate Microeconomics, Macro Fundamentals</li> </ul> |                         |
| <b>Independent Instructor</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | August 2014 – May 2016  |

|   |                        |
|---|------------------------|
| <b>Independent Instructor</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | August 2014 – May 2016 |
| <ul style="list-style-type: none"> <li>• Created course design, lecture format, and assessment materials.</li> <li>• Developed and lectured course materials.</li> <li>• Mentored students providing individualized learning support and online assignments.</li> <li>• Courses: Fundamentals of Economics, Principles of Microeconomics</li> </ul> |                        |
| <b>Teaching Assistant</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA   | August 2013 – May 2014 |

|  |                        |
|--|------------------------|
| <b>Teaching Assistant</b><br>Department of Economics<br>North Carolina State University, Raleigh, NC, USA  | August 2013 – May 2014 |
| <ul style="list-style-type: none"> <li>• Assisted Dr. Hyman as head teaching assistant and lab instructor.</li> <li>• Developed and lectured lab materials independently.</li> <li>• Improved students’ performance by implementing a collaborative learning environment.</li> <li>• Courses: Fundamentals of Economics</li> </ul> |                        |
| <b>Independent Instructor</b><br>Department of Economics<br>Eskisehir Osmangazi University, Eskisehir, Turkey  | January 2019 – Present |

- |                         |   |
|-------------------------|---|
| <b>LANGUAGES</b>        | <ul style="list-style-type: none"><li>• English (C2 Proficiency - fluent)</li><li>• Turkish (native)</li></ul>                  |
| <b>POPULAR MEDIA</b>    | <ul style="list-style-type: none"><li>• Founder of Akademi Ekonometri Website and Akademi Ekonometri YouTube Channel.</li></ul> |
| <b>MORE INFORMATION</b> | More information and auxiliary documents can be found on <a href="#">my web site</a> .  |

**REFERENCES**

**Dr. Barry Goodwin**

William Neal Reynolds Distinguished Professor  
Agricultural and Resource Economics  
North Carolina State University  
Raleigh, NC 27695-8109  
📞 : +1 (919) 515-4620  
✉️ : [bkgoodwi@ncsu.edu](mailto:bkgoodwi@ncsu.edu)  
👤 : Dr. Goodwin was my graduate advisor and post doctoral supervisor.

**Dr. Jeffrey Prestemon**

Adjunct Professor  
Forestry and Environmental Resources  
North Carolina State University  
Raleigh, NC 27695-8109  
📞 : +1 (919) 549-4033  
✉️ : [jprestemon@fs.fed.us](mailto:jprestemon@fs.fed.us)  
👤 : Dr. Prestemon was a member of my doctoral committee.

**Dr. Walter Thurman**

William Neal Reynolds Distinguished Professor  
Agricultural and Resource Economics  
North Carolina State University  
Raleigh, NC 27695-8109  
📞 : +1 (919) 515-4545  
✉️ : [wally\\_thurman@ncsu.edu](mailto:wally_thurman@ncsu.edu)  
👤 : Dr. Thurman was a member of my doctoral committee.

\*More references are available upon request.