
Ph.D. GÖKÇE KOÇ

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Web Sites: Luke.fi  | Google Scholar  | Research Gate  | Orcid  | LinkedIn 

WORK EXPERIENCE

Research Scientist

12/12/2022 –

The Natural Resources Institute Finland / Luonnonvarakeskus (LUKE)

Statistical Services Unit / Tilastopalvelut-yksikkö (TIPA)

Bioeconomy Accounting Group / Biotalous Kannattavuus (BIKA)

EDUCATION

● Doctorate, Agricultural Economics

01/2018 – 10/2022

Ege University, Graduate School of Natural and Applied Sciences,
Agricultural Policy and Extension, 4.00 / 4.00

● Master of Science, Agricultural Economics

09/2015 – 01/2018

Ege University, Graduate School of Natural and Applied Sciences,
Agricultural Policy and Extension, 3.79 / 4.00

● Master of Science, Agricultural Economics

09/2016 – 02/2017

University of Agriculture in Krakow, Erasmus+ Programme,
Faculty of Agriculture and Economics

● Bachelor, Economics

09/2010 – 06/2015

Ege University, Faculty of Economics and Administrative
Sciences, 2.69 / 4.00

● Associate Degree, Business Administration

10/2013 – 06/2015

Anadolu University, Open Education Faculty, 3.16 / 4.00

● High School, Life Sciences

08/2006 – 06/2010

Luleburgaz Anatolian High School, 80.98 / 100.00

GRADUATE RESEARCH

● **Ph.D. :** Koç G. 2022. A study on the development of a farm-level index for availability dimension of food security in Turkey: Case study of Thrace Region, Ege University, Izmir. 337p. 

● **MS :** Koç G. 2018. Analyzing of the effects of climate change on dairy farming in terms of economy and agricultural policy; Thrace Region, Ege University, Izmir, 131p. 

SCHOLARSHIPS

- **Center of Higher Education (YOK)** 02/2018 – 02/2022
100/2000 Ph.D. Scholarship on Food Safety and Food Security
- **The Scientific and Technological Research Council of Turkey (TUBITAK)** 06/2019 – 10/2022
2211-A National Ph.D. Scholarship Program

PROJECTS

- **Maatalouden data-analytiikka -hankkeen (Agricultural data-analytics)** 01/2023 – 12/2023
LUKE, ProAgria and FABA
- **Food Insecurity among European University Students during the COVID-19 Pandemic (FINESCOP):** The University of the Basque Country (Spain), and Oslo Metropolitan University, together with other 11 European Universities 05/2021 – 12/2023
- **Ege University Scientific Research Projects** 08/2016 – 03/2018
Coordination: Master Thesis Research Project Grant

SKILLS

Foreign Language: English

- Common European Framework of Reference for Languages (CEFR), C2
- Preparatory Class, Ege University, 74.0 / 100.0
- Council of Higher Education Foreign Language Exam, 86.2 / 100.0

Foreign Language: Finnish

- Common European Framework of Reference for Languages (CEFR), A1.1

Programming Skills, Software & Tools

- R & R Studio (*Advanced*)
- SAS (*Intermediate*)
- Statistical Package for the Social Sciences (SPSS) (*Advanced*)
- Econometric Views (EViews) (*Intermediate*)
- Software for Statistics and Data Science (STATA) (*Intermediate*)
- Tableau (*Intermediate*)
- Microsoft Office (*Advanced*)
- Python (*Beginner*)
- SQL (*Beginner*)

REFEREED PUBLICATIONS

- Dahlvik M., **Koç G.**, Sipiläinen T. 2026. Missing Data in Agricultural Surveys: Performance of Four Methods under Ignorable and Nonignorable Mechanisms. *Ecological Informatics* (*under review*).
- **Koç, G.**, Uzmay, A. 2024. Construction of a Farm-Level Food Security Index: case study of Turkish dairy farms, *Social Indicators Research*. 175:687-714. <https://doi.org/10.1007/s11205-024-03406-8>
- Dahlvik, M., **Koç, G.**, Paakala, E. 2024. The effects of hoof health and hoof trimming on farm profitability, *Livestock Science*, 285, 105497. <https://doi.org/10.1016/j.livsci.2024.105497>
- **Koç, G.**, Uzmay, A. 2022. Food security and other relevant concepts about food, differences and relationships, *Turkish Journal of Agricultural Economics*, 28(2):249–260. (*in Turkish*). <https://doi.org/10.24181/tarekoder.1161731>
- **Koç, G.**, Uzmay, A. 2022. Analyzing the effects of livestock policies on farm-level efficiency in Turkey; Thrace Region case, *Journal of Tekirdag Agricultural Faculty*, 19(3): 515 - 528. <https://doi.org/10.33462/jotaf.978947>
- **Koç, G.**, Uzmay, A. 2022. Determinants of dairy farmers' likelihood of climate change adaptation in the Thrace Region of Turkey, *Environment, Development and Sustainability*, 24:9907–9928. <https://doi.org/10.1007/s10668-021-01850-x>
- **Koç, G.**, Uzmay, A. 2019. The effect of climate change on the cost of dairy farms in Turkey; case study of Thrace Region, *New Medit: Mediterranean Journal of Economics, Agriculture and Environment*, 18(3): 31-45. <http://dx.doi.org/10.30682/nm1903c>
- **Koç, G.**, Uzmay, A. 2019. An evaluation on monitoring and mapping of food security, *Journal of Adnan Menderes University Agricultural Faculty*, 16(2): 237-244. (*in Turkish*). <https://doi.org/10.25308/aduziraat.56278>
- **Koç, G.**, Uzmay, A. 2019. Factors affecting the probability of dairy farmers' giving up the production in Thrace Region, *Turkish Journal of Agricultural Economics*, 25(1): 41-52. (*in Turkish*). <https://doi.org/10.24181/tarekoder.538942>
- **Koç, G.**, Uzmay, A. 2018. Factors affecting the dairy farmers' likelihood of marketing milk through the cooperatives: the case of Thrace Region, *Turkish Journal of Agricultural Economics*, 24(2): 203-214. (*in Turkish*). <https://doi.org/10.24181/tarekoder.477188>
- Karaturhan, B., Uzmay, A., **Koç, G.** 2018. Factors affecting the probability of rural women's adopting organic farming on family farms in Turkey, *Ege Journal of Agricultural Research*, 55 (2):153-160. <https://doi.org/10.20289/zfdergi.408821>
- **Koç, G.**, Uzmay, A. 2016. Evaluation of the effects of climate change on dairy farming in terms of food security and economy, *Turkish Journal of Agricultural Economics*, 22(2): 21-35. (*in Turkish*). <https://dergipark.org.tr/en/pub/tarekoder/issue/28531/515287>
- **Koç, G.**, Uzmay, A., 2015, Food security and food safety: conceptual framework, developments and Turkey, *Turkish Journal of Agricultural Economics*, 21(1): 39-48. (*in Turkish*). <https://dergipark.org.tr/en/pub/tarekoder/issue/25826/272309>

CONFERENCE PRESENTATIONS

- **Koç G.**, Latukka A., Iltanen J. 2026. Farm economic performance in the EU with EconomyDoctor, Maataloustieteen Päivät 2026, 8-9 January, Helsinki, p 343. (*poster*). 
- Dahlvik M., **Koç G.**, Sipiläinen T. 2026. Puuttuvan datan käsittely, Maataloustieteen Päivät 2026, 8-9 January, Helsinki, p 44. (*in Finnish*). 
- **Koç G.**, Dahlvik M. 2024. Ennakoivan sorkkahoidon taloudelliset vaikutukset karjataloudessa, Maataloustieteen Päivät 2024, 10-11 January, Helsinki, p 99. (*in Finnish*). 

- Dahlvik M., **Koç G.** 2024. Taloustiedot ovat elintärkeitä maatalousyrittäjille, Maataloustieteen Päivät 2024, 10-11 January, Helsinki, p 60. (*in Finnish*). [↗](#)
- **Koç G.**, Uzmay A. 2019. The economic effects of food wastage on food security in the World and in Turkey, 2nd International Congress on Agricultural and Food Ethics, 24-25 October, Izmir, Türkiye, 203-212p. [↗](#)
- **Koç, G.**, Uzmay A., Çınar G. 2018. Food security measurements and recent developments, IX. International Balkan and Near Eastern Social Sciences Congresses Series, September 29-30, Edirne, Türkiye, 967-979p. (*in Turkish*). [↗](#)
- Çınar, G. Uzmay, A. **Koç, G.** 2018. The causality effect of interest in the financial crisis and oil market on food prices: a case study of internet search engine behavior, IX. International Balkan and Near Eastern Social Sciences Congresses Series, September 29-30, Edirne, Türkiye, 354-363p. [↗](#)
- **Koç, G.**, Uzmay, A. 2018. Factors affecting the probability of dairy farmers' giving up the production in Thrace region, XII. National Agricultural Economics Congress, 12-14 September, Kahramanmaraş, Türkiye. (*in Turkish*).
- **Koç, G.**, Uzmay A. 2018. Dairy cattle breeders' observations on climate change: Thrace Region case, VII. International Balkan and Near Eastern Social Sciences Congresses Series, 24-25 March, Tekirdag, Türkiye 326-334p. (*in Turkish*). [↗](#)
- Çınar G., Uzmay A., **Koç, G.** 2018. Managers' problem-solving skills: an application in agricultural sector, VII. International Balkan and Near Eastern Social Sciences Congresses Series, 24-25 March, Tekirdag, Türkiye, 335-342p. (*in Turkish*).
- **Koç, G.**, Uzmay, A. 2017. A study on dairy cattle farmers' knowledge about climate change in Turkey: Thrace Region Case, V. International Balkan and Near Eastern Social Sciences Congresses Series, September 23-24, Kırklareli, Türkiye, 331-338p. (*in Turkish*). [↗](#)
- **Koç, G.**, Sert, H. 2017. Economic impacts of climate change on the agriculture; World and Turkey, 20th International Economy Student Congress, 26-28 April, Izmir, Türkiye.
- **Koç, G.**, Uzmay, A., Cukur F. 2017. Assessment of the relationship between climate change and livestock sector in terms of agricultural economics in Turkey and in the World, XII. National Agricultural Economics Congress, Isparta, Türkiye, 1: 203-212p. (*in Turkish*). [↗](#)
- **Koç, G.** 2015. Sustainable supply chain on agriculture and food, 18th International Economy Student Congress, 28-30 April, Izmir, Türkiye. (*in Turkish*).

SEMINARS

- Determination of the effects of subsidies on technical efficiency of sunflower production; case study of Thrace Region, 2nd. Ph.D. Seminar, 10.02.2022.
- An evaluation on monitoring and mapping of food security, 1st. Ph.D. Seminar, 22.01.2019.
- Evaluation of the effects of climate change on dairy farming in terms of food security and economy, Master Seminar, 21.06.2016.

ACADEMIC PROJECTS

- **Koç, G.** 2015. Foreign trade of Turkish agricultural products: citrus fruits, nuts, figs, apricots and seedless raisins, Ege University, Faculty of Economics and Administrative Sciences, Term Project, Izmir, Türkiye, 28p. (*in Turkish*).

MEMBERSHIPS

- Turkish Agricultural Economics Association (Board of Directors, Associate Member)
- Agricultural and Food Ethics Association of Turkey

Econometrics, Data Science and Programing

- **Spatial data analysis with R**, CSC – IT Center for Science, (24 hours), May 2023.
- **SAS Programming for R Users**, SAS Academy, (14 hours), April 2023.
- **SAS Macro Language 1: Essentials**, SAS Academy, (14 hours), March 2023.
- **SAS Programming 2: Data Manipulation Techniques**, SAS Academy, (14 hours), February 2023.
- **SAS Programming 1: Essentials**, SAS Academy, (21 hours), January 2023.
- **Statistical Concepts Explained and Applied in R** 🔄, Udemy (5.5 hours), September 2022.
- **Training in Econometrics, and Simulations on Time Series with RStudio**, Mugla Sitki Kocman University & TUBITAK 2237-A Grant Program for Scientific Training (63 hours), September 2022.
- **Intermediate R** 🔄, Datacamp (6 hours), July 2022.
- **Data Visualization with R Track** 🔄, Datacamp (completed three required courses), July 2022.
- **Intermediate Data Visualization with ggplot2** 🔄, Datacamp (4 hours), July 2022.
- **Introduction to Data Visualization with ggplot2** 🔄, Datacamp (4 hours), July 2022.
- **Visualization Best Practices in R** 🔄, Datacamp (4 hours), July 2022.
- **Multiple and Logistic Regression in R** 🔄, Datacamp (4 hours), July 2022.
- **Introduction to Regression in R** 🔄, Datacamp (4 hours), July 2022.
- **Introduction to Database** 🔄, Global AI Hub (4 hours), March 2022.
- **Data Visualization** 🔄, Global AI Hub (4 hours), March 2022.
- **Prediction with Univariate and Multivariate ARCH/GARCH Models: Hands-on-training with RStudio**, Mugla Sitki Kocman University & TUBITAK 2237-A Grant Program for Scientific Training (36 hours), October - November 2021.
- **The Complete Data Visualization Course with Python, R, Tableau, and Excel** 🔄, 365 Data Science (9 hours), November 2021.
- **Introduction to R Programming** 🔄, 365 Data Science (6 hours), November 2021.
- **Introduction to Tableau** 🔄, 365 Data Science (2 hours), November 2021.
- **Data Visualization with R and ggplot2** 🔄, Udemy (20.5 hours), November 2021.
- **Digital Analytics & Regression** 🔄, Cognitive Class - IBM Developer Skills Network (6 hours), July 2021.
- **R Programming: For Data Science with Real Exercises** 🔄, Udemy (5 hours), April 2021.
- **Economic Analysis and Applications with Python**, Kocaeli University (34 hours), March 2021.
- **Applied Data Science with R: Statistics and Machine Learning** 🔄, Udemy (54.5 hours), February 2021.
- **Data Science for Ecologists and Environmental Scientists**, Coding Club, January 2021.
- **Data Visualization with R** 🔄, Cognitive Class - IBM Developer Skills Network (3 hours), January 2021.
- **Advanced Excel Techniques**, Southeast Anatolia Exporters' Associations (6 hours), January 2021.
- **Econometric Analysis and Applications with RStudio**, Mugla Sitki Kocman University & TÜBİTAK 2237-A Grant Program for Scientific Training (60 hours), January 2021.

- **Advanced Data Visualization with R** , Johns Hopkins University (11 hours), December 2020.
- **Getting Started with Data Visualization in R** , Johns Hopkins University (12 hours), December 2020.
- **A Crash Course in Data Science** , Johns Hopkins University (7 hours), December 2020.
- **The Most Comprehensive Excel Formulas** , Udemy (3.5 hours), November 2020.
- **Reporting Techniques in Excel**, Southeast Anatolia Exporters' Associations (6 hours), October 2020.
- **Reproducible Research** , Johns Hopkins University, (8 hours) October 2020.
- **Regression Models** , Johns Hopkins University (54 hours), September 2020.
- **Getting and Cleaning Data** , Johns Hopkins University (20 hours), September 2020.
- **The Data Scientist's Toolbox** , Johns Hopkins University (18 hours), September 2020.
- **R Programming** , Johns Hopkins University (57 hours), September 2020.
- **Data Science Math Skills** , Duke University (13 hours), September 2020.
- **Time Series Analysis with EViews**, Turkish Economic Association (14 hours), September 2020.
- **Micro Econometrics**, Turkish Economic Association (12 hours), September 2020.
- **Machine Learning for Economists**, Turkish Economic Association (12 hours), September 2020.
- **Applied Data Analysis & Data Visualization with Tableau** , Udemy (12 hours), July 2020.

Agricultural & Food Economics and Policy

- **Artificial Intelligence, Internet of Things & Agriculture**, Ministry of Agriculture and Forestry (3 hours), July 2021.
- **Food Legislation**, Ministry of Agriculture and Forestry (12 hours), April 2021.
- **Cattle Breeding**, Ministry of Agriculture and Forestry (16 hours), March 2021.
- **Agriculture 4.0**, Ministry of Agriculture and Forestry (4 hours), January 2021.
- **New Approaches, Grants and Supports in Rural Development**, Ministry of Agriculture and Forestry (8 hours), December 2020.
- **Importance, Usage and Reclamation of Rangelands**, Ministry of Agriculture and Forestry (12 hours), December 2020.

Development Economics, The Marginal Revolution University (25 hours), October, 2021.

- **Space Technologies in Agriculture**, Ege University, Observatory Application and Research Center, October 2020.
- **Agriculture, Economics and Nature** , University of Western Australia (17 hours), October 2020.
- **Discover Best Practice Farming for a Sustainable 2050** , University of Western Australia (9 hours), October 2020.
- **Dairy Production and Management** , The Pennsylvania State University (76 hours), October 2020.
- **Challenges of Agribusiness Management** , Universita Bocconi (5 hours), October 2020.
- **Food & Beverage Management** , Universita Bocconi (13 hours), September 2020.
- **Transformation of the Global Food System** , University of Copenhagen (12 hours), September 2020.

- **Remote Food Security Monitoring**, World Food Programme, August 2020.
- **SDG Indicator 2.1.2 - Using the Food Insecurity Experience Scale**, FAO Academy, July 2020.
- **SDG Indicator 2.1.1 - Prevalence of Undernourishment (PoU)**, FAO Academy, July 2020.
- **Nutrition, Food Security and Livelihoods - Basic concepts**, FAO Academy, July 2020.
- **Improving Nutrition through Agriculture and Food Systems**, FAO Academy, July 2020.
- **Sustainable Food Systems: A Mediterranean Perspective**, UN Sustainable Development Solutions Network, SDG Academy (30 hours), March 2018.

Environmental and Natural Resources Economics & Climate Change

- **Sustainability**, Southeast Anatolia Exporters' Associations (3 hours), July 2022.
- **The Sustainable Development Goals – A global, trans-disciplinary vision for the future** , University of Copenhagen (10 hours), September 2020.
- **Diploma on International Environmental Law and Governance**, United Nations Information Portal on Multilateral Environmental Agreements (completed five required courses), August 2020.
- **Diploma on the International Legal Framework on the Protection of the Atmosphere**, United Nations Information Portal on Multilateral Environmental Agreements (completed six required courses), August 2020.
- **Diploma on the International Legal Framework on Agriculture, Land Degradation and Soil Protection**, United Nations Information Portal on Multilateral Environmental Agreements (completed seven required courses), August 2020.
- **Climate Change – From Learning to Action**, UN Climate Change Learning Partnership (8 hours), April 2020.
- **Introductory e-Course on Climate Change**, UN Climate Change Learning Partnership (12 hours), December 2017.

Others

- **Finnish**, EF Level 1 – CEFR Level A1.1, EF, December 2023.
- **Project Cycle Management for EU Projects**, Ministry of Agriculture and Forestry (30 hours), November -December 2020.
- **Foreign Trade and E-Trade**, Bemer Career School (160 hours), September-December 2012.
- **English, American Culture Association Language Schools**, European Language Portfolio, Common European Framework of Reference for Languages (CEFR), Level: C2, August 2011.