

Erdener Emin Eker

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Education

- **Ph.D. in Economics**, Middle East Technical University, Ankara, Turkey Ongoing
Thesis Title: Machine Learning Applications in Economics: Innovations and Insights
Advisor: Asst. Prof. Alev Atak & Prof. Ceylan Yozgatligil
- **M.A. in Economics**, Hacettepe University, Ankara, Turkey 2020
Thesis Title: Determinants of Greenhouse Gas Emissions of EU Households
Advisor: Assoc. Prof. Onur Yeni
- **B.Sc. in Economics**, Hacettepe University, Ankara, Turkey 2017

Research Interests

Applied Econometrics, Machine Learning in Economics, Climate Change Economics, Green Finance

Publications

- Yildirim, J., Alpaslan, B., and Eker, E. E. (2020). *The Role of Social Capital in Environmental Protection Efforts: Evidence from Turkey*. Journal of Applied Statistics. [link](#)

Work in Progress

- Determinants of Household Greenhouse Gas Emissions in European Union Countries (with Onur Yeni)
- Machine Learning Applications in Economics: Innovations and Insights (Ph.D. thesis)
- Impact of Conflict on Concern for Environment (with Jülide Yıldırım and Nadir Öcal)

Conference Presentations

- Eker, E. E., Yeni, O. (2020). *Determinants of Households Greenhouse Gas Emissions in European Union Countries*. International Conference on Economics, Eskişehir Orhangazi University, Turkey (Online).
- Yildirim, J., Alpaslan, B., Eker, E. E. (2019). *The Role of Social Capital in Environmental Protection Efforts: Evidence from Turkey*. 11th International Statistics Congress, Bodrum, Turkey.

Teaching Experience

- **Teaching Assistant**, TED University, Ankara, Turkey 2019 - Present

Undergraduate : Introduction to Economics I & II , Introduction to Econometrics I & II, International Economics, Microeconomics I

Graduate : Macroeconomics I & II, Econometrics, Microeconomics I

Duties: conducted weekly recitation hours, prepared problem sets and quizzes, graded assignments and exams, assisted students during office hours, and prepared weekly Stata & R lab sessions.

- **Instructor** Introduction to Machine Learning Workshop May 2025

TEDU AI & Data Science Society and AFIT (Ankara University), Ankara, Turkey

A 4-day hands-on workshop for undergraduate students covering machine learning foundations, data preprocessing, classification models, and time series forecasting using Python and Google Colab. Attended by 40+ students from TED University and Ankara University.

Materials available at: github.com/erdeneremin/Intro_ML_Workshop

Outreach and Public Engagement

- **Author**, Machine Learning & Economics, Newsletter 2025 – Present

Weekly LinkedIn newsletter covering machine learning applications in economics, including methods, use cases, and policy insights.

Monthly issues highlight new ML-related papers from 50+ leading economics journals across fields like macro, finance, labor, development, and environment.

Available at: linkedin.com/newsletters/Machine Learning & Economics

Skills

- **Programming and Tools:** R, Python, Stata, LaTeX, MS Office
- **Quantitative Methods:** Time Series Analysis, Panel Data Analysis, Spatial Econometrics, Machine Learning, Deep Learning, Natural Language Processing
- **Languages:** English (Fluent), Turkish (Native)

Achievements and Awards

- High Honour Student, Hacettepe University Fall 2016, Spring 2017
- Honour Student, Hacettepe University Fall 2015, Spring 2016