

# Prof. BİRSEN EYGİ ERDOĞAN

## Personal Information

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## International Researcher IDs

ScholarID: wEkUUj4AAAAJ

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Publons / Web Of Science ResearcherID: AAA-2026-2019

ScopusID: 54942367100

Yoksis Researcher ID: 54553

## Education Information

Doctorate, Marmara University, Faculty of Economics, Econometrics, Turkey 1994 - 2002

Postgraduate, Istanbul University, School Of Business, Department Of Business Administration, Turkey 1991 - 1994

Undergraduate, Marmara University, Faculty of Arts and Sciences, Mathematics, Turkey 1986 - 1991

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Bankaların Mali Performanslarının Lojistik Regresyon ile Analizi ve ileriye Yönelik Tahmin ile Bir Uygulama, Marmara Üniversitesi, Faculty of Economics, Econometrics, 2002

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Statistics, 2020 - Continues

Associate Professor, Marmara University, Faculty of Arts and Sciences, Statistics, 2015 - 2020

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Statistics, 2010 - 2015

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Mathematics, 2009 - 2010

Research Assistant, Marmara University, Faculty of Arts and Sciences, Mathematics, 1992 - 2009

## Academic and Administrative Experience

Marmara University, Faculty of Arts and Sciences, Statistics, 2018 - Continues

Marmara University, Faculty of Arts and Sciences, Statistics, 2009 - Continues

Deputy Head of Department, Marmara University, Faculty of Arts and Sciences, Statistics, 2009 - 2018

## Courses

Çok Değişkenli İstatistiksel Analiz II, Undergraduate, 2020 - 2021

İstatistiksel Okuryazarlık, Undergraduate, 2019 - 2020

Çok Değişkenli İstatistiksel Analiz I, Undergraduate, 2020 - 2021

## Advising Theses

EYGİ ERDOĞAN B., Bulanık doğrusal regresyonda parametre tahmin yöntemleri, Postgraduate, F.Erduvan(Student), 2011

## Designed Lessons

Eygi Erdoğan B., İstatistiksel Okuryazarlık, Undergraduate, 2009 - 2010

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Novel Hybrid House Price Prediction Model**  
AKYÜZ S., EYGİ ERDOĞAN B., Yildiz O., Atas P. K.  
COMPUTATIONAL ECONOMICS, vol.62, no.3, pp.1215-1232, 2023 (SCI-Expanded)
- II. **A Novel Approach for Panel Data: An Ensemble of Weighted Functional Margin SVM Models**  
EYGİ ERDOĞAN B., AKYÜZ S., Karadayı Atas P.  
Information Sciences, vol.557, pp.373-381, 2021 (SCI-Expanded)
- III. **SOME HEAVY METALS AND MINERAL NUTRIENTS OF NARROW ENDEMIC CIRSIIUM BYZANTINUM STEUD., FROM ISTANBUL, TURKEY: PLANT-SOIL INTERACTIONS**  
ÖZYİĞİT İ. İ., ESKİN B., Uras M. E., Sen U., EYGİ ERDOĞAN B., Kurmanbekova G., SEVEROĞLU Z., Yalcin I. E.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.2, pp.668-674, 2018 (SCI-Expanded)
- IV. **Knowledge and Attitudes of Dietitians Concerning Seafood Consumption and Processing/Preservation Technologies**  
Mol S., EYGİ ERDOĞAN B., Alakavuk D. U., VARLIK C.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.15, no.1, pp.73-80, 2015 (SCI-Expanded)
- V. **Survey into the Characteristics, Working Conditions and Deficiencies of Turkish Seafood Processing Firms**  
Mol S., EYGİ ERDOĞAN B., Ulusoy S.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.14, no.3, pp.705-712, 2014 (SCI-Expanded)
- VI. **Liu-Type Logistic Estimator**  
İnan D., Erdogan B.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.42, pp.1578-1586, 2013 (SCI-Expanded)
- VII. **Prediction of bankruptcy using support vector machines: an application to bank bankruptcy**  
Erdogan B.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.83, no.8, pp.1543-1555, 2013 (SCI-Expanded)
- VIII. **Reference interval of pregnancy-associated plasma protein-A in healthy men and non-pregnant women**  
COŞKUN A., SERTESER M., Duran S., Inal T. C., EYGİ ERDOĞAN B., ÖZPINAR A., CAN Ö., Unsal I.  
JOURNAL OF CARDIOLOGY, vol.61, pp.128-131, 2013 (SCI-Expanded)

- IX. **Factors Influencing the Consumption of Seafood in Istanbul, Turkey**  
EYGİ ERDOĞAN B., MOL S., COŞANSU AKDEMİR S.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.11, no.4, pp.631-639, 2011 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Fewer Species but More Existing Individuals: Testing the Hypothesis 'Pessimism Conditions Rule' Based on Long-Term Data of Species Composition of Benthic Fauna and Environmental Variables in the Sea of Marmara, Turkey**  
Artüz L., Artüz B., Sakınç M., Eygi Erdoğan B., Yalçın B.  
Journal of Environmental and Toxicological Studies, vol.2, pp.1-18, 2018 (Peer-Reviewed Journal)
- II. **Support Vector Machines vs Multiplicative Neuron Model Neural Network in Prediction of Bank Failures**  
EYGİ ERDOĞAN B., EĞRİOĞLU E., AKDENİZ E.  
American Journal of Intelligent Systems, vol.7, pp.125-131, 2017 (Peer-Reviewed Journal)
- III. **Long term Examination of Bank Crashes Using Panel Logistic Regression Turkish Banks Failure Case**  
EYGİ ERDOĞAN B.  
International Journal of Statistics and Probability, vol.5, pp.42-48, 2016 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **A Novel Approach for Panel Data: An Ensemble of Weighted Functional Margin SVM Models**  
EYGİ ERDOĞAN B.  
Linstat 2018, 20 - 24 September 2018
- II. **Ensemble Learning for Bank Bankruptcy: Turkish Bank Case**  
EYGİ ERDOĞAN B., AKYÜZ S.  
OR 2018: International Conference on Operations Research, 12 - 14 September 2018
- III. **Clustered Support Vector Regression House Price Prediction Case Study**  
EYGİ ERDOĞAN B., AKYÜZ S.  
Xth International Statistics Days Conference 2016 (ISDC'2016), 7 - 09 October 2016
- IV. **Ensemble Learning by Two Step Margin Based Model Selection Case Study on Bankruptcy Data in Turkish Commercial Banks**  
EYGİ ERDOĞAN B., AKYÜZ S.  
Linstat 2016, 22 - 25 August 2016
- V. **Kernel based classification for financial failure A comparative study for Turkish banks**  
EYGİ ERDOĞAN B.  
The 10th Tartu Conference on Multivariate Statistics, Tartu, Estonia, 27 June - 01 July 2016
- VI. **Prediction of Bank Failures via Machine Learning Techniques using Pooled Panel Financial Data**  
EYGİ ERDOĞAN B., EĞRİOĞLU E., AKDENİZ DURAN E.  
EURO 2015, Glasgow, United Kingdom, 12 - 15 July 2015
- VII. **Prediction of Turkish bank failures using panel factor logistic regression**  
EYGİ ERDOĞAN B.  
Linstat 2014, 24 - 28 August 2014
- VIII. **Knowledge And Attitudes Of Dietitians Concerning Seafood Consumption And Common Processing/ Preservation Technologies**  
MOL TOKAY S., EYGİ ERDOĞAN B.  
11th International Congress of Nutrition, 15 - 20 September 2013
- IX. **A comparison of different parameter estimation methods in fuzzy linear regression**  
EYGİ ERDOĞAN B.

A comparison of different parameter estimation methods in fuzzy linear regression, 16 - 20 June 2012

**X. Modeling multiple time series data using wavelet-based support vector regression**

İnan D., Eygi Erdoğan B.

International Conference on Trends and Perspectives in Linear Statistics, Poznan, Poland, 16 - 20 June 2012

**XI. A Liu Type Logistic Regression Estimator**

İnan D., Eygi Erdoğan B.

International 7th Statistics Congress-İSTKON, Antalya, Turkey, 28 April - 01 May 2011

**XII. A comparative study of classification models**

EYGİ ERDOĞAN B.

ASMDA 2009 XIII, 30 June - 03 July 2009

**XIII. İstatistiksel okuryazarlığın tıptaki yeri ve önemi**

EYGİ ERDOĞAN B.

2. Multidisipliner Kanser Araştırma Sempozyumu, Turkey, 24 - 27 February 2008

## **Other Publications**

**I. Introduction to Probability and Statistics for Engineers and Scientist**

Eygi Erdoğan B.

Other, pp.141-223, 2014

## **Metrics**

Publication: 26

Citation (WoS): 101

Citation (Scopus): 54

H-Index (WoS): 4

H-Index (Scopus): 4

## **Non Academic Experience**

Dow Türkiye Kimya Sanayi