

## Assoc. Prof. Aycan Mutlu YAĞANOĞLU

### Personal Information

Office Phone: [+90 442 231 1111](tel:+904422311111) Extension: 2583

Fax Phone: [+90 442 231 5878](tel:+904422315878)

Email: [myagan@atauni.edu.tr](mailto:myagan@atauni.edu.tr)

Web: <https://avesis.atauni.edu.tr/myagan>

### International Researcher IDs

ScholarID: sEecz-UAAAAJ

ORCID: 0000-0002-0163-6989

Yoksis Researcher ID: 189160

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Zootečni, Turkey 2010 - 2017

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Zootečni, Turkey 2007 - 2010

Undergraduate, Ataturk University, Ziraat Fakültesi, Tarımsal Yapılar ve Sulama, Turkey 2000 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, GRİ İLİŞKİSEL ANALİZ ve BULANIK SİSTEM TEORİSİNİN HAYVANCILIKTA KULLANIMI , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Biyometri Ve Genetik, 2017

Postgraduate, Koyunlarda Gebelik Testlerinin Roc Analizi ile Karşılaştırılması, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Biyometri Ve Genetik, 2010

### Research Areas

Agriculture, Biometrics, Statistics, Statistical Analysis and Applications

### Academic Titles / Tasks

Associate Professor, Ataturk University, Ziraat Fakültesi, Zootečni, 2022 - Continues

Assistant Professor, Ataturk University, Ziraat Fakültesi, Zootečni, 2018 - 2022

Research Assistant, Ataturk University, Ziraat Fakültesi, Zootečni, 2009 - 2018

### Academic and Administrative Experience

Deputy Head of Department, Ataturk University, Ziraat Fakültesi, Zootečni, 2020 - Continues

## Courses

Uygulamalı İleri İstatistiksel Veri Analizi, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Biyoistatistik, Undergraduate, 2023 - 2024  
İstatistik, Undergraduate, 2023 - 2024  
Biyoistatistik, Undergraduate, 2023 - 2024  
Çok Değişkenli İstatistiksel Analiz, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Bilgisayar, Undergraduate, 2021 - 2022, 2020 - 2021  
İstatistiğe Giriş, Undergraduate, 2022 - 2023  
SPSS Uygulamaları, Undergraduate, 2021 - 2022, 2020 - 2021  
Araştırma ve Deneme Metotları, Undergraduate, 2022 - 2023  
İstatistik ve Deneme Metotları, Undergraduate, 2021 - 2022, 2020 - 2021  
Mezuniyet Çalışması I, Undergraduate, 2022 - 2023  
Hayvansal Üretim Teknikleri, Undergraduate, 2021 - 2022, 2020 - 2021  
Temel Bilgi Teknolojileri, Undergraduate, 2021 - 2022  
Biyoistatistik, Postgraduate, 2021 - 2022  
İstatistiksel Metotlar, Postgraduate, 2021 - 2022  
İstatistik II, Undergraduate, 2020 - 2021  
İstatistik, Undergraduate, 2021 - 2022  
İş Sağlığı ve Güvenliğinde İstatistik, Postgraduate, 2021 - 2022  
İstatistik I, Undergraduate, 2021 - 2022  
Araştırma Teknikleri, Undergraduate, 2020 - 2021

## Advising Theses

Yağanoğlu A. M., Çoklu doğrusal bağlantı durumunda ridge ve temel bileşenler regresyon analizinin hayvancılıkta kullanımı, Postgraduate, P.ÖLMEZ(Student), 2022  
Yağanoğlu A. M., Hayvancılıkta süt verimini etkileyen bazı faktörlerin (yaş, canlı ağırlık, çevre ısı ve kuruda kalma süresi) yapay sinir ağları ile modellenmesi, Postgraduate, E.KARTAL(Student), 2021

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

- I. **The effect of rural and urban life on peritonitis rates in chronic peritoneal patients**  
ÇANKAYA E., ALTUNOK M., YAĞANOĞLU A. M.  
RENAL FAILURE, vol.45, no.1, 2023 (SCI-Expanded)
- II. **Improved biological value of eggs due to the addition of pomegranate seed oil to laying-hen diets**  
BÖLÜKBAŞI AKTAŞ Ş. C., Dumlu B., YAĞANOĞLU A. M.  
ARCHIVES ANIMAL BREEDING, vol.66, no.1, pp.121-129, 2023 (SCI-Expanded)
- III. **A NEW APPROACH FOR COMPARISON OF SOIL CHARACTERISTICS USING GREY RELATIONAL ANALYSIS AND PRINCIPAL COMPONENT ANALYSIS**  
Yaganoglu E., Sari S., Aksakal E. L., Yaganoglu A. M., Angin I.  
JOURNAL OF ANIMAL AND PLANT SCIENCES-JAPS, vol.32, no.2, pp.466-478, 2022 (SCI-Expanded)
- IV. **A Comparative Study of the Nonlinear Methods for Estimating Body Weight Based on Body Measurements in Different Sample Sizes in Morkaraman Sheep**  
YAĞANOĞLU A. M.  
KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, vol.28, no.2, pp.261-265, 2022 (SCI-Expanded)

- V. **Estimation of the factors affecting lactation milk yield of Holstein cattle by the adaptive neuro-fuzzy inference system**  
 YAĞANOĞLU A. M.  
 TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.46, pp.165-169, 2022 (SCI-Expanded)
- VI. **The serum amino acid profile in COVID-19**  
 ATİLA A., ALAY H., YAMAN M. E., Akman T. C., ÇADIRCI E., BAYRAK B., Celik S., Atila N. E., YAĞANOĞLU A. M., KADIOĞLU Y., et al.  
 AMINO ACIDS, vol.53, no.10, pp.1569-1588, 2021 (SCI-Expanded)
- VII. **Changes in fatty acids, blood biochemistry and mRNA expressions of genes involved in polyunsaturated fatty acid metabolism in brown trout (*Salmo trutta*) during starvation and refeeding**  
 ARSLAN G., BAYIR M., YAĞANOĞLU A. M., BAYIR A.  
 AQUACULTURE RESEARCH, vol.52, no.2, pp.494-504, 2021 (SCI-Expanded)
- VIII. **COMPARISON OF QUALITY CHARACTERISTICS IN HONEY USING GREY RELATIONAL ANALYSIS AND PRINCIPAL COMPONENT ANALYSIS METHODS**  
 TOPAL M., YAĞANOĞLU A. M.  
 JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.28, no.1, pp.252-263, 2018 (SCI-Expanded)
- IX. **FUZZY LOGIC EVALUATION OF WATER QUALITY CLASSIFICATION FOR SOME PHYSICO-CHEMICAL PARAMETERS IN GERMECTEPE DAM LAKE (KASTAMONU-TURKEY)**  
 Atea E. A., Kadak A. E., Yağanoğlu A. M., Sönmez A. Y.  
 FRESERIUS ENVIRONMENTAL BULLETIN, vol.27, no.8, pp.5238-5243, 2018 (SCI-Expanded)
- X. **CHAID AND LOGISTIC REGRESSION APPROACHES FOR ASSESSING THE EFFECTS OF NON-GENETIC FACTORS ON LAMB MORTALITY**  
 Topal M., Emsen E., Yaganoglu A. M.  
 JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.27, no.1, pp.40-47, 2017 (SCI-Expanded)
- XI. **COMPARISON OF THE SENSORY CHARACTERISTICS IN AWASSI AND RED KARAMAN SHEEP WITH THE GREY RELATIONAL ANALYSIS METHOD**  
 Topal M., Özdemir M., Yaganoglu A. M., Esenbuğa N.  
 JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.26, no.1, pp.63-68, 2016 (SCI-Expanded)
- XII. **Metals in Two Species of Fish in Karasu River**  
 Sonmez A. Y., YAĞANOĞLU A. M., ARSLAN G., Hisar O.  
 BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.89, no.6, pp.1190-1195, 2012 (SCI-Expanded)
- XIII. **Effect of Inner Environmental Conditions of Poultry House on Harmful Gases and Dust**  
 KOCAMAN B., YANIK R., YAĞANOĞLU A. M.  
 Journal Of Animal And Veterinary Advances, 2012 (SCI-Expanded)
- XIV. **Using Discriminant and CHAID Analysis Methods to Identify Sex in Brown Trout *Salmo trutta fario* by Morphometric Features**  
 TOPAL M., YAĞANOĞLU A. M., SÖNMEZ A. Y., ARSLAN G., HİSAR O.  
 Israeli Journal Of Aquaculture-Bamidgeh, vol.62, pp.251-259, 2010 (SCI-Expanded)
- XV. **AN ANALYSIS OF THE FACTORS AFFECTING BIRTH WEIGHT AND ACTUAL MILK YIELD IN SWEDISH RED CATTLE USING REGRESSION TREE ANALYSIS**  
 TOPAL M., Aksakal V., Bayram B., Yaganoglu A. M.  
 JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.20, no.2, pp.63-69, 2010 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Mating Season Influences Placental Characteristics, Plasma *IGF* Concentration, and mRNA Expression without Affecting Lamb Birth Weight in Akkaraman Ewes**  
 Şen U., ŞİRİN E., Önder H., Tirink C., YAĞANOĞLU A. M., Bostanova S., Uskenov R., Tyasi T. L.

VETERINARY MEDICINE INTERNATIONAL, vol.2024, 2024 (ESCI)

- II. **Estimation of Growth Curves of Awassi Sheep by Isotonic Regression Analysis**  
YAĞANOĞLU A. M.  
Atatürk Üniversitesi Ziraat Fakültesi Dergisi, vol.53, no.1, pp.67-70, 2022 (Peer-Reviewed Journal)
- III. **Determination of the effect of Zeolite and Organic Acid Mixture Supplementation on Performance and Egg Quality in the Layer Diet Using Grey Relational Analysis Method**  
YAĞANOĞLU A. M., TOPAL M.  
Black Sea Journal of Agriculture, vol.5, no.1, pp.16-20, 2021 (Peer-Reviewed Journal)
- IV. **Parameter estimation of factors affecting milk yield in a multicollinearity by Bayesian Regression method**  
YAĞANOĞLU A. M.  
Journal of Biometry Studies, vol.1, no.1, pp.23-25, 2021 (Peer-Reviewed Journal)
- V. **Determination of spatial and temporal changes in surface water quality of Filyos River (Turkey) using principal component analysis and cluster analysis**  
YAĞANOĞLU E., YAĞANOĞLU A. M., ARSLAN G., SÖNMEZ A. Y.  
Marine Science and Technology Bulletin, vol.9, no.2, pp.207-214, 2020 (Peer-Reviewed Journal)
- VI. **Regression Tree Analysis for Predicting Race Performance (Speed) of Thoroughbred Racehorses**  
YILDIRIM F., YAĞANOĞLU A. M., YILDIZ A.  
International Journal of Agriculture and Environmental Research, vol.4, pp.1393-1402, 2018 (Peer-Reviewed Journal)
- VII. **Comparison of Pregnancy Tests in Morkaraman-Awassi and Tuj sheeps with Roc Analysis**  
YAĞANOĞLU A. M., TOPAL M.  
ALINTERI JOURNAL OF AGRICULTURE SCIENCES, vol.33, no.1, pp.29-36, 2018 (ESCI)
- VIII. **Çoklu Doğrusal Bağlantı Durumunda Ridge ve Temel Bileşenler Regresyon Analiz Yöntemlerinin Kullanımı**  
TOPAL M., EYDURAN E., YAĞANOĞLU A. M., SÖNMEZ A. Y., KESKİN S.  
Atatürk Üniversitesi Ziraat Fakültesi Dergisi, vol.41, pp.53-57, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **YAPAY ZEKÂ VE TARIM ALANINDA KULLANIMI**  
Yağanoğlu A. M., Arslan G.  
in: TARIMSAL ÜRETİMDE GÜNCEL GELİŞMELER, Zeynep Dumlu Gül, Editor, İksad Yayınevi, Ankara, pp.241-262, 2023
- II. **YAPISAL EŞİTLİK MODELİ VE VARSAYIMLARI**  
Yağanoğlu A. M.  
in: TOHUMDAN SOFRAYA SÜRDÜRÜLEBİLİRLİK TARIMSAL KAYNAK TÜKETİMİ İÇİN BAZI ÖNERİLER, Zeynep DUMLU GÜL, Editor, İKSAD PUBLISHING HOUSE, Ankara, pp.47-58, 2021

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Effects of Organic Pomegranate Seed Oil Addition Into Laying Hen Diet on Performance, Egg Quality and Shelf Life**  
Bölükbaşı Aktaş Ş. C., Dumlu B., Yağanoğlu A. M.  
III International and XII National Animal Science Conference, Bursa, Turkey, 27 - 28 November 2021, pp.77
- II. **MODELING OF THE FACTORS AFFECTING MILK PRODUCTION IN LIVESTOCK (MILLOWING TIME, LIVE WEIGHT, EXTERNAL TEMPERATURE, INTERNAL TEMPERATURE) WITH ARTIFICIAL NEURAL NETWORKS**  
YAĞANOĞLU A. M., KARTAL E.

ISPEC 8th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCES AND RURAL DEVELOPMENT, Bingöl, Turkey, 24 December 2021

- III. **The Effects of Organic Pomegranate Seed Oil Addition Into Laying Hen Diet on Performance, Egg Quality and Shelf Life**  
Bölükbaşı Aktaş Ş. C., Dumlu B., Yağanoğlu A. M.  
III International and XII National Animal Science Conference, Bursa, Turkey, 27 November 2021, pp.77
- IV. **Diagnostic accuracy of PCR test and symptoms of the disease for covid-19 by Multivariate Roc Analysis**  
Yağanoğlu A. M., Topal M.  
1. Uygulamalı İstatistik Kongresi, Tokat, Turkey, 1 - 04 October 2020, pp.62
- V. **PARAMETER ESTIMATION OF FACTORS AFFECTING MILK YIELD IN A MULTIPLE COLLINEARITY BY BAYESIAN REGRESSION METHODS**  
Yağanoğlu A. M.  
IV. International Congress on Domestic Animal Breeding, Genetics and Husbandry-2020, Samsun, Turkey, 12 - 14 August 2020, pp.99-101
- VI. **Grey Relational Analysis and Fuzzy System Theory Use in Livestock**  
Yağanoğlu A. M., Topal M.  
I. International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.169
- VII. **Fuzzy Linear Regression Use in Livestock**  
Yağanoğlu A. M., Topal M.  
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.971-973
- VIII. **Fuzzy Linear Regression Use in Livestock**  
YAĞANOĞLU A. M., TOPAL M.  
International Congress on Engineering and Life Science, 26 - 29 April 2018
- IX. **Investigation of Some Physicochemical Water Quality Parameters of Germeçtepe Dam Lake (Kastamonu-Daday) and Assesment of Using Fuzzy Logic**  
Atea E. A., KADAK A. E., YAĞANOĞLU A. M., SÖNMEZ A. Y.  
Ecology Symposium 2017 Kayseri/Turkey, Kayseri, Turkey, 11 - 13 May 2017, pp.213
- X. **Koyunlarda Gebelik Testlerinin ROC Analizi İle Karşılaştırılması**  
YAĞANOĞLU A. M., TOPAL M.  
7. Ulusal Zootekni Bilim Kongresi, Turkey, 12 - 15 September 2011
- XI. **Investigation With Meta Regression Analysis Effect Of Years On Death Rates Of Male And Female In Brown Calves**  
TOPAL M., YAĞANOĞLU A. M., AYDIN R.  
Proceedings Of 3rd International Congress On Information And Communication Technologies In Agriculture, Food, Frostry And Environment (itaffe'10), Samsun, Turkey, 14 - 18 June 2010, pp.261-265
- XII. **Meta Analysis Of Death Rates Of Male and Female In Brown-Swiss Calves**  
TOPAL M., YAĞANOĞLU A. M., AYDIN R.  
Proceedings Of 3rd International Congress On Information And Communication Technologies In Agriculture, Food, Frostry And Environment (itaffe'10), 14 - 18 June 2010, pp.252-260

## Supported Projects

Yağanoğlu A. M., EU Supported Other Project, Innovation for Sustainable Sheep and Goat Production in Europe (ISAGE), 2018 - 2021

KILIÇ BAYGUTALP N., BİLGİN Ö. C., ERCİŞ M. S., ÇAYIR Y., YAĞIZ O., YAĞANOĞLU A. M., KAŞALI K., ÖZTÜRK Ö., GÜNEY H., TURAL DİKMEN A., et al., Project Supported by Higher Education Institutions, Araştırma Metodolojisi Eğitim ve Uygulama Ofisinin Kurulumu Kapsamında Eğitim Faaliyetlerinin Düzenlenmesi, 2019 - 2019

MACİT M., YAĞANOĞLU A. M., Project Supported by Higher Education Institutions, BASILI EĞİTİM-ÖĞRETİM ARAÇLARINDA GÖRSELLİĞİN ÖNEMİ, 2010 - 2011

TOPAL M., YAĞANOĞLU A. M., Project Supported by Higher Education Institutions, İSTATİSTİKTE BİLGİSAYARLI EĞİTİM, 2010 - 2011

### Activities in Scientific Journals

Palandöken Journal of Animal Science, Technology and Economics, Committee Member, 2021 - Continues

Journal of Biometry Studies, Committee Member, 2021 - Continues

Journal of Agricultural Production, Committee Member, 2020 - Continues

Marine Science and Technology Bulletin, Committee Member, 2019 - Continues

### Scientific Refereeing

TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, SCI Journal, October 2021

### Tasks In Event Organizations

Bayram B., Ergün O. F., Yağanoğlu A. M., DEMİR N., 12. Uluslararası Bilimsel Araştırmalar Kongresi , Scientific Congress, Ankara, Turkey, Aralık 2021

Kocadağistan M. E., Yüksel Ç., Vangözü S. Y., Kocadağistan B., Yağanoğlu A. M., EKMEKYAPAR TORUN F., ÖZKAL F. M., 3. International Turkish World Engineering Science Congress, Scientific Congress, Ankara, Turkey, Ekim 2021

Yağanoğlu A. M., International Congress on Domestic Animal Breeding Genetics and Husbandry - 2021, Scientific Congress, Odessa, Ukraine, Eylül 2021

### Scientific Research / Working Group Memberships

Araştırma Metodolojisi Eğitim Ve Uygulama Ofisi Koordinatörlüğü, Ataturk University, Turkey, <https://birimler.atauni.edu.tr/arastirma-metodolojisi-egitim-ve-uygulama-ofisi/>, 2018 - Continues

### Metrics

Publication: 37

Citation (WoS): 104

Citation (Scopus): 109

H-Index (WoS): 4

H-Index (Scopus): 4

### Congress and Symposium Activities

ISPEC 8th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCES AND RURAL DEVELOPMENT, Audience, Bingöl, Turkey, 2021

ICELIS 2019, Attendee, Kastamonu, Turkey, 2019

ICELIS 2018, Session Moderator, Kastamonu, Turkey, 2018

ICELIS 2018, Attendee, Kastamonu, Turkey, 2018