

## Prof. OSMAN SÖNMEZ



### Personal Information

**Office Phone:** [+90 352 437 1790](tel:+903524371790)

**Fax Phone:** [+90 352 437 6209](tel:+903524376209)

**Email:** [osmansonmez@erciyes.edu.tr](mailto:osmansonmez@erciyes.edu.tr)

**Web:** <https://avesis.erciyes.edu.tr/osmansonmez/>

**Address:** Erciyes Üniversitesi Ziraat Fakültesi Safiye Çıkrıkçıoğlu Binası Melikgazi-Kayseri



### International Researcher IDs

ORCID: 0000-0002-9134-6466

Publons / Web Of Science ResearcherID: R-2114-2019

ScopusID: 6506589919

Yoksis Researcher ID: 44815

### Education Information

Doctorate, Kansas State University, Agronomy, Soil Science, United States Of America  
1999 - 2004

Postgraduate, Kansas State University, Agronomy, Soil Science, United States Of America  
1997 - 1998

Undergraduate, Cumhuriyet Üniversitesi, Tokat Ziraat Fakültesi, Toprak, Turkey 1990 -  
1994

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Health&Medicine, İLK YARDIMCI EĞİTİMİ, Kayseri İl Sağlık Müdürlüğü, 2023

Quality Management, Ziraat Fakülteleri Akreditasyon, ZİDEK (Ziraat Fakülteleri Eğitim Programları Derneği), 2020

Personal Evolution, Bilirkişilik Temel Eğitimi, Erciyes Üniversitesi, 2018

Occupational Health and Safety, İş Sağlığı ve Güvenliği Eğitimi, Erciyes Üniversitesi, 2016

Occupational Health and Safety, İŞYERİ HEKİMLİĞİ VE İŞ GÜVENLİĞİ UZMANLIĞI EĞİTİCİ BELGESİ, ÇALIŞMA VE SOSYAL GÜVENLİK BAKANLIĞI İŞ SAĞLIĞI VE GÜVENLİĞİ GENEL MÜDÜRLÜĞÜ, 2014

Foreign Language, YABANCI DİL SERTİFİKASI, ORTADOĞU TEKNİK ÜNİVERSİTESİ, 1996

Personal Evolution, TAEKWONDO HAKEMLİĞİ, TAEKWONDO FEDERASYONU, 1994

### Dissertations

Doctorate, 1. A FIELD-BASED ASSESMENT TOOL FOR PHOSPHORUS LOSSES IN RUNOFF KANSAS. 2. EFFECTS OF PHOSPHORUS AND MANGANESE OXIDES ON SOIL LEAD BIOAVAILABILITY. 3. ASSESMENT OF BIOAVAILABILITY OF

ZINC BY DIFFUSIVE GRADIENT IN THIN FILMS (DGT), Kansas State University, Agronomy, Soil Science, 2004  
Postgraduate, The Influence of Phosphorus Fertilizer and Crop Residue Removal on Soil Phosphorus Fractions, Kansas State University, Agronomy, Soil Science, 1998

## Research Areas

Agricultural Sciences, Agriculture, Soil and Plant Feed, Soil Chemistry (inorganic,organic), Soil and Water Storage and Management, Soil Improvement (Physical, Chemical Or Biological), Nutritive Principles, Complete Fertilizers, Methods of Application, Grounded Feeding Applications

## Academic Titles / Tasks

Professor, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2016 - Continues  
Associate Professor, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2014 - 2016  
Associate Professor, Harran University, Faculty Of Agriculture, Toprak Bilimi Ve Bitki Besleme, 2011 - 2014  
Assistant Professor, Harran University, Faculty Of Agriculture, Toprak Bilimi Ve Bitki Besleme, 2005 - 2011  
Research Assistant PhD, Harran University, Faculty Of Agriculture, Toprak Bilimi Ve Bitki Besleme, 2004 - 2005  
Research Assistant, Kansas State University, Agronomy, Soil Science, 2002 - 2003

## Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2016 - Continues  
Head of Department, Erciyes University, Toprak Bilimi Ve Bitki Besleme, 2016 - 2024  
Head of Department, Erciyes University, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme, 2016 - 2024  
Faculty Board Member, Erciyes University, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme, 2016 - 2024  
Scientific Award Committee Member, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2023 - 2023  
Döner Sermaye Alt Değerlendirme Komisyonu, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2020 - 2023  
University Executive Board Member, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2020 - 2023  
Member of the Senate, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2020 - 2023  
Dean, Erciyes University, Ziraat Fakültesi, ..., 2020 - 2023  
Fakülte Yönetim Kurulu Üyesi, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, 2016 - 2023  
Erciyes Üniversitesi, Ziraat Fakültesi, 2016 - 2018  
Erciyes Üniversitesi, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme, 2015 - 2016  
Harran Üniversitesi, Ziraat Fakültesi, 2013 - 2014  
Harran Üniversitesi, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme, 2009 - 2014

## Courses

İleri Toprak Kimyası, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Uzmanlık Alanı Dersi 4, Doctorate, 2022 - 2023  
Toprakta Ağır Metal Kirliliği, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
İşletme Gübre ve Atıklarının Değerlendirilmesi, Doctorate, 2023 - 2024, 2019 - 2020  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Tez Danışmanlığı, Postgraduate, 2022 - 2023  
MESLEKİ UYGULAMA, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
MESLEKİ YABANCI DİL II, Undergraduate, 2022 - 2023, 2021 - 2022  
Tez Çalışması 4, Doctorate, 2022 - 2023  
Toprak Kimyası, Undergraduate, 2023 - 2024, 2022 - 2023, 2018 - 2019, 2017 - 2018  
UZMANLIK ALAN , Postgraduate, 2022 - 2023, 2021 - 2022  
Toprak-Çevre Kirliliği, Undergraduate, 2023 - 2024  
Toprak Islahı, Undergraduate, 2023 - 2024  
TEZ ÇALIŞMASI II, Postgraduate, 2022 - 2023, 2021 - 2022  
Toprak Kirliliği, Doctorate, 2022 - 2023, 2019 - 2020, 2018 - 2019  
Thesis Studies 5, Doctorate, 2022 - 2023  
İLERİ TOPRAK KİMYASI, Postgraduate, 2022 - 2023  
Bitirme Tezi, Undergraduate, 2023 - 2024  
Thesis Studies 2, Doctorate, 2022 - 2023  
Special Field Course 5, Doctorate, 2022 - 2023  
Thesis Research 2, Postgraduate, 2022 - 2023  
Tez Danışmanlığı 2, Postgraduate, 2022 - 2023  
Special Field Course II, Postgraduate, 2022 - 2023  
Special Field Course III, Doctorate, 2022 - 2023  
MESLEKİ YABANCI DİL I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Danışmanlık, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
SPECIAL FIELD COURSE I, Postgraduate, 2021 - 2022  
Uzmanlık Alanı, Doctorate, 2021 - 2022, 2020 - 2021  
THESIS RESEARCH I, Doctorate, 2021 - 2022  
Uzmanlık Alanı, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
UZMANLIK ALAN 3, Doctorate, 2021 - 2022  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
TEZ ÇALIŞMASI, Postgraduate, 2021 - 2022  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
TEZ ÇALIŞMASI 3, Doctorate, 2021 - 2022  
THESIS CONSULTANCY, Doctorate, 2021 - 2022  
İş Sağlığı ve Güvenliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Danışmanlık, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Seminer, Doctorate, 2019 - 2020, 2018 - 2019  
Mesleki Uygulama, Undergraduate, 2019 - 2020  
ÇEVRE KİRLİLENMESİ VE TARIM İLİŞKİLERİ, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Toprak Bilgisi, Undergraduate, 2016 - 2017, 2014 - 2015  
Mesleki Uygulama, Undergraduate, 2016 - 2017, 2015 - 2016  
Toprak Bilgisi, Undergraduate, 2015 - 2016, 2014 - 2015  
Toprak Bilgisi, Undergraduate, 2015 - 2016, 2014 - 2015  
Akademik Yazım, Postgraduate, 2016 - 2017, 2015 - 2016  
Toprak Bilgisi, Undergraduate, 2015 - 2016, 2014 - 2015

Mesleki Uygulama, Undergraduate, 2015 - 2016  
Tarımsal Kıymet Takdiri, Undergraduate, 2014 - 2015  
Mesleki Uygulama, Associate Degree, 2015 - 2016  
Mesleki Uygulama, Undergraduate, 2015 - 2016, 2014 - 2015  
Fiziko Kimya, Undergraduate, 2013 - 2014  
İşletme Atıklarının Geğerlendirilmesi, Postgraduate, 2013 - 2014  
Uzmanlık, Postgraduate, 2013 - 2014  
Danışmanlık, Postgraduate, 2013 - 2014  
Mesleki Uygulama, Undergraduate, 2013 - 2014  
Bitirme Ödevi, Undergraduate, 2013 - 2014  
Toprak Analizleri, Undergraduate, 2013 - 2014  
Toprak Bilimi, Undergraduate, 2013 - 2014  
Seminer, Postgraduate, 2013 - 2014  
ÇEVRE KİRLENMESİ VE TARIM İLİŞKİLERİ, Postgraduate, 2013 - 2014, 2012 - 2013  
TOPRAK KİRLİLİĞİ, Undergraduate, 2013 - 2014  
TOPRAK KİMYASI, Undergraduate, 2013 - 2014

## Advising Theses

Sönmez O., Ders aşamasında, Doctorate, D.ALİ(Student), Continues  
Sönmez O., Ders aşamasında, Doctorate, L.BEDEL(Student), Continues  
SÖNMEZ O., Farklı Fosfor Dozlarının Kabak Bitkisinin Verimi Üzerine Etkisi, Postgraduate, Z.SERDAR(Student), Continues  
SÖNMEZ O., Harran Ovasındaki yayın bazı toprak serilerinin toplam, organik, inorganik ve yarayışlı Fosfor içeriklerinin belirlenmesi, Postgraduate, E.DÜNDAR(Student), Continues  
SÖNMEZ O., ÇAY VE FINDIK KABUĞU ATIKLARININ AĞIR METALLERCE KİRLENMİŞ TOPRAKLAR ÜZERİNDE YETİŞEN SORGUM SUDAN ÇİMİNİN AĞIR METAL ALIMI ÜZERİNE ETKİSİ, Postgraduate, S.KILIÇ(Student), Continues  
Sönmez O., Soil Organic Matter, Cation Exchange Capacity, Tomato Productivity and Agroecosystems Sustainability as Influenced by N0-Tillage Combined with Organic Amendments, Postgraduate, S.OURO(Student), 2023  
Sönmez O., ECONOMIC STUDY TO MEASURE THE EFFICIENCY OF IRRIGATION SYSTEMS (WHEAT CROP IN ANBAR GOVERNORATE AS A MODEL), Doctorate, Z.Abbas(Student), 2023  
Sönmez O., Performance of Sand-Coconut Biochar-Zeolite Mixtures for Nitrojen and Phosphorus Removal from Wastewater, Postgraduate, A.Mohamed(Student), 2023  
Sönmez O., Determination of the role of some industrial activities in Kayseri city on polluting the soil, Postgraduate, R.Jasim(Student), 2022  
Sönmez O., KİRLENMİŞ TOPRAKLARDA AĞIR METAL HAREKETLİLİĞİ ÜZERİNE ÇEŞİTLİ TOPRAK DÜZENLEYİCİLERİNİN ETKİLERİNİN BELİRLENMESİ, Postgraduate, N.ŞENKAYA(Student), 2022  
Sönmez O., Patateste Klasik ve Bilimsel Gübreleme ile Kalsiyum ve Borun Patates verim ve kalite üzerine etkileri, Postgraduate, C.TEZCAN(Student), 2019  
Sönmez O., Develi Ovası topraklarının yarayışlı ve toplam fosfor içeriklerinin belirlenmesi, Postgraduate, Y.ÇETİN(Student), 2019  
Aydemir S., Sönmez O., Harran Ovası Topraklarının Bazı Fiziksel Ve Kimyasal Özelliklerinin Belirlenmesi, Postgraduate, F.JABAR(Student), 2019  
SÖNMEZ O., Yüksek Çözünürlükte Görülebilir-Yakın Kızılötesi Yansıma Spektrometre Tekniği ve Yapay Sınır Ağları Metodu İle Toprağın Bazı Parametrelerinin İlişkilendirilmesi, Postgraduate, G.ŞENER(Student), 2017  
SÖNMEZ O., Yarayışsız Halde Bulunan Toplam Fosforun Farklı Toprak Düzenleyiciler Kullanarak Bitkilere Yarayışlılığının Artırılması, Postgraduate, V.TURAN(Student), 2011  
SÖNMEZ O., Mikoriza ve Farklı Demir Dozları Uygulamasının Çinko Toksisitesi Üzerine Etkileri, Postgraduate, S.İNAL(Student), 2009

## Jury Memberships

Doctorate, Doctorate, Harran Üniversitesi, December, 2024  
Doctorate, Doctorate, Erciyes Üniversitesi, December, 2024  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2024  
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Erciyes Üniversitesi, November, 2024  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2024  
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Harran Üniversitesi, October, 2024  
Doctoral Examination, Doctoral Examination, Panjab Üniversitesi, July, 2024  
Post Graduate, Post Graduate, Erciyes Üniversitesi, July, 2024  
Doctorate, Doctorate, Harran Üniversitesi, June, 2024  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, June, 2024  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2024  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, May, 2024  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2024  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2024  
Doctorate, Doctorate, GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD , April, 2024  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, January, 2024  
Academic Staff Examination, Academic Staff Examination, Erciyes Üniversitesi, January, 2024  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, January, 2024  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, December, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, December, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2023  
Associate Professor Exam, Associate Professor Exam, Bingöl Üniversitesi, November, 2023  
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Erciyes Üniversitesi, November, 2023  
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Erciyes Üniversitesi, October, 2023  
Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2023  
Doctorate, Doctorate, Erciyes Üniversitesi, July, 2023  
Doctorate, Doctorate, Erciyes Üniversitesi, May, 2023  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2023  
Post Graduate, Post Graduate, Erciyes Üniversitesi, February, 2023  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Erciyes Üniversitesi, February, 2023  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, January, 2023  
Post Graduate, Post Graduate, Erciyes Üniversitesi, December, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2022  
Post Graduate, Post Graduate, Harran Üniversitesi, July, 2022  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, June, 2022  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2022  
Associate Professor Exam, Associate Professor Exam, COMSAT University, Islamabad, Pakistan, April, 2022  
Associate Professor Exam, Associate Professor Exam, Bingöl Üniversitesi, March, 2022  
Post Graduate, Post Graduate, Harran Üniversitesi, January, 2022

Doctoral Examination, Doctoral Examination, Harran Üniversitesi, January, 2022  
Post Graduate, Post Graduate, Erciyes Üniversitesi, January, 2022  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, October, 2021  
Post Graduate, Post Graduate, Niğde Ömer Halisdemir Üniversitesi, September, 2021  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Ege Üniversitesi, September, 2021  
Post Graduate, Post Graduate, Harran Üniversitesi, August, 2021  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, July, 2021  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2021  
Associate Professor Exam, Associate Professor Exam, Bingöl Üniversitesi, April, 2021  
Associate Professor Exam, Associate Professor Exam, Haripu University Pakistan, April, 2021  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Comsat University Pakistan, April, 2021  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, January, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2021  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, January, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2021  
Doctoral Examination, Doctoral Examination, Harran Üniversitesi, December, 2020  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2020  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2020  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2020  
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2020  
Associate Professor Exam, Associate Professor Exam, Selçuk Üniversitesi, September, 2020  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, September, 2020  
Post Graduate, Post Graduate, Harran Üniversitesi, May, 2020  
Doctorate, Doctorate, Ankara Üniversitesi, May, 2020  
Associate Professor Exam, Associate Professor Exam, Doğu Akdeniz Tarımsal Araştırma, March, 2020  
Doctorate, Doctorate, Ankara Üniversitesi, March, 2020  
Associate Professor Exam, Associate Professor Exam, Selçuk Üniversitesi, March, 2020  
Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2019  
Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2019  
Associate Professor Exam, Associate Professor Exam, Iğdır Üniversitesi, August, 2019  
Associate Professor Exam, Associate Professor Exam, Osmaniye Korkut Ata Üniversitesi, August, 2019  
Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2019  
Post Graduate, Post Graduate, Harran Üniversitesi, June, 2019  
Doctorate, Doctorate, Erciyes Üniversitesi, June, 2019  
Post Graduate, Post Graduate, Harran Üniversitesi, June, 2019  
Doctorate, Doctorate, Erciyes Üniversitesi, June, 2019  
Associate Professor Exam, Associate Professor Exam, Ege Üniversitesi, August, 2018  
Associate Professor Exam, Associate Professor Exam, Adıyaman Üniversitesi, June, 2018  
Associate Professor Exam, Associate Professor Exam, Ege Üniversitesi, May, 2018  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, April, 2018  
Doctorate, Doctorate, Erciyes University, February, 2018  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, January, 2018  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, January, 2018  
Doctorate, Doctorate, Harran Üniversitesi, April, 2017  
Post Graduate, Post Graduate, Harran Üniversitesi, November, 2016  
Doctorate, Doctorate, Harran Üniversitesi, November, 2016  
Post Graduate, Post Graduate, Harran Üniversitesi, March, 2016  
Post Graduate, Post Graduate, Harran Üniversitesi, March, 2016

Post Graduate, Post Graduate, Harran Üniversitesi, March, 2016

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, April, 2015

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, October, 2011

Post Graduate, Post Graduate, Harran Üniversitesi, May, 2008

Post Graduate, Post Graduate, Harran Üniversitesi, February, 2007

## Research Infrastructure Information

Sönmez O., Toprak Kirliliği ve Kimyası Laboratuvarı, January 2015

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

- I. **The Effect of PGPR Applications on Bioactive Content and Fruit Characteristics of Different Apple Scion-Rootstock Combinations**  
YAMAN M., YILDIZ E., SÜMBÜL A., ERCİŞLİ S., SÖNMEZ O., GÜNEŞ A., SAY A., KEÇE Y. M., ÜNSAL H. T.  
Erwerbs-Obstbau, vol.65, no.5, pp.1267-1273, 2023 (SCI-Expanded)
- II. **The Effect of Biofertilizer Applications on Bioactive Content And Fruit Characteristics of Different Apple Scion-Rootstock Combinations**  
Yaman M., Yıldız E., Say A., Güneş A., Sönmez O., Keçe Y. M., Ünsal H. T.  
DER ERWERBSOBSTBAU, pp.1-15, 2023 (SCI-Expanded)
- III. **Economic study to measure the efficiency of irrigation systems (wheat crop in anbar governorate as a model.**  
Jassam Z. A., Sönmez O., Eskander H. A., Gökalp Z.  
ANNALS OF FOREST RESEARCH, vol.66, no.1, pp.1-15, 2023 (SCI-Expanded)
- IV. **Effects of Rhizobacteria Application on Leaf and Fruit Nutrient Content of Different Apple Scion-Rootstock Combinations**  
YILDIZ E., YAMAN M., ERCİŞLİ S., SÜMBÜL A., SÖNMEZ O., GÜNEŞ A., Bozhuyuk M. R., Kviklys D.  
HORTICULTURAE, vol.8, no.6, 2022 (SCI-Expanded)
- V. **Influence of semi-arid environment on radiation use efficiency and other growth attributes of lentil crop**  
ur Rahman M. H., Ahmad I., Wang D., Fahad S., Afzal M., Ghaffar A., Saddique Q., Khan M. A., Saud S., Hassan S., et al.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.11, pp.13697-13711, 2021 (SCI-Expanded)
- VI. **Managing Tillage Operation and Manure to Restore Soil Carbon Stocks in Wheat-Maize Cropping System**  
Khan A., Fahad S., Khan A., Saud S., Adnan M., Wahid F., Noor M., Nasim W., Hammad H. M., Bakhat H. F., et al.  
AGRONOMY JOURNAL, vol.111, no.5, pp.2600-2609, 2019 (SCI-Expanded)
- VII. **The Combined Effects of Nitric Oxide and Thiourea on Plant Growth and Mineral Nutrition of Salt-Stressed Plants of Two Maize Cultivars with Differential Salt Tolerance.**  
Kaya C., Ashraf M., Sönmez O., Polat T., Tuna A. L.  
Journal Of Plant Nutrition, vol.40, pp.1-8, 2019 (SCI-Expanded)
- VIII. **Exogenous Application of Humic Acid Mitigates Salinity Stress in Maize (Zea mays L.) Plants by Improving some Key Physico-biochemical Attributes.**  
KAYA C., AKRAM N., ASHRAF M., SÖNMEZ O.  
Cereal Research Communications, vol.46, pp.67-78, 2018 (SCI-Expanded)
- IX. **Changes in Soil Phosphorus Fractions Resulting from Crop Residue Removal and Phosphorus Fertilizer**  
Sönmez O., Pierzynski G. M.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.48, pp.929-935, 2017 (SCI-Expanded)
- X. **THE EVALUATION OF DIFFUSIVE GRADIENTS IN THIN FILMS (DGT) AND CaCl<sub>2</sub> EXTRACTION ON**

## PHOSPHORUS-ZINC INTERACTION IN SUDAN GRASS

Sönmez O., Pierzynski G. M., Kaya C., Aydemir S.

PAKISTAN JOURNAL OF BOTANY, vol.48, pp.393-397, 2016 (SCI-Expanded)

- XI. **The effects of sulfur, cattle, and poultry manure addition on soil phosphorus**  
Sönmez O., Turan V., Kaya C.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.40, no.4, pp.536-541, 2016 (SCI-Expanded)
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- II. **Santrali çevreleyen arazilerde bazı ağır metaller (Pb, Cd, Ni, Co, As) ile toprak kirliliği**  
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## Activities in Scientific Journals

Turkish Journal Of Agricultural Engineering Research, Committee Member, 2020 - Continues

SOIL-WATER JOURNAL (TOPRAK-SU DERGİSİ), Advisory Committee Member, 2012 - Continues

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, Editor, 2013 - 2018

HARRAN ÜNİVERSİTESİ ZİRAAT FAKÜLTESİ DERGİSİ, Editor, 2013 - 2014

## Memberships / Tasks in Scientific Organizations

EĞİTİM BİR SENDİKASI, Member, 2015 - Continues

TÜRKİYE TOPRAK İLMİ DERNEĞİ, Member, 2005 - Continues

SOIL SCIENCE SOCIETY OF AMERİKA, Member, 1998 - 2007

## Scientific Refereeing

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Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi, National Scientific Refreed Journal, July 2017

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## Scientific Consultations

ERÜ. Ziraat Fakültesi Doğal Yaşam Kulübü, Scientific Consultancy, Erciyes University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme, Turkey, 2020 - Continues

## Tasks In Event Organizations

Sönmez O., Stratejik Plan Eylem Geliştirme Çalıştayı, Workshop Organization, Kayseri, Turkey, Temmuz 2022  
Sönmez O., IV. Araştırma ve İnovasyon Çalıştayı Yeşil Mutabakat Eksenli Sürdürülebilir Tarım İş Birlikleri, Workshop Organization, Kayseri, Turkey, Haziran 2022  
Sönmez O., Anadolu Grup Yeni Dünya İş Adamları Derneği Çalıştayı, Workshop Organization, Kayseri, Turkey, Mayıs 2022  
Sönmez O., 5. International Eurasian Congress on Natura Nutrition and Healthy Life 2019, Scientific Congress, Ankara, Turkey, Ekim 2019

## Scientific Research / Working Group Memberships

Tarım Şurası, Erciyes University, Turkey, www.tarimsurasi, 2019 - Continues  
Mezuniyet Değerlendirme Komisyonu, ERCİYES ÜNİVERSİTESİ, Turkey, 2016 - Continues  
Kayseri İli Toprak Koruma Kurulu, ERCİYES ÜNİVERSİTESİ, Turkey,  
<http://kayseri.tarim.gov.tr/Belgeler/Tar%C4%B1msal%20Altyap%C4%B1%20Faaliyetler/Toprak%20Koruma.pdf>,  
2016 - Continues  
Fakülte Kurulu Üyeliği, Erciyes University, Turkey, www.ziraaterciyes.edu.tr, 2016 - Continues  
Kalite Güvence Sistemi Komisyonu/Birim İç Değerlendirme Komisyonu, ERCİYES ÜNİVERSİTESİ, Turkey, 2017 - 2018

## Metrics

Publication: 120

Citation (WoS): 914

Citation (Scopus): 1023

H-Index (WoS): 16

H-Index (Scopus): 16

## Congress and Symposium Activities

IV. Araştırma ve İnnovasyon Çalıştayı, Moderator, Kayseri, Turkey, 2022

International Congress on Agriculture and Animal Sciences. November 7-9, 2018, Alanya/ TURKEY, Attendee, Antalya, Turkey, 2018

International Congress on Agriculture and Animal Sciences., Session Moderator, Antalya, Turkey, 2018

EURASIAN Natural Nutrition and Healty Life Congress. July 12-15, 2018, Ankara/ TURKEY, Working Group, Ankara, Turkey, 2018

1st International Conference on Climate Change Impacts on Agriculture and Food Supply. April 24-26, 2018, Swabi University, Khyber Pakhtunkhwa/ PAKİSTAN., Attendee, Swabi, Pakistan, 2018

Climate Change Impacts on Agriculture and Food Supply, Session Moderator, Islamabad, Pakistan, 2018

Climate Change Impacts on Agriculture and Food Supply, Invited Speaker, Swabi, Pakistan, 2018

1st International GAP Agriculture and Livestock Congress. April 25-27, 2018, Şanlıurfa/ TURKEY., Attendee, Şanlıurfa, Turkey, 2018

GUNES, A., SONMEZ, O., BEYZİ, E., UZUN, O., TURAN, M. 2017. Silajlık Mısır Bitkisinin Protein Oranı Üzerine Farklı Hümik Asit Dozlarının Etkisi. 3rd ASM International Conference on Agriculture and Environment, Attendee, Antalya, Turkey, 2017

Identification of Site Vulnarebility for Phosphorus. III. International Conference on Environmental Science and Technology (ICOEST)'. Budapest, Macaristan, Attendee, Budapest, Hungary, 2017

8. SONMEZ, O., KAYA, C., GUNES, A., ŞAHAN, S. 2017. Total and Bioavailable Phosphorus in Harran Plain. International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF)', Attendee, Turkey, 2017

ŞAHAN, S., SONMEZ, O., ŞAHİN, U., BAŞARAN, M., UZUN, O. 2017. Ion Chromatographic Dtermination of Nitrate Pollutant in Drinking Water Samples. Ecology 2017 International Symposium', Attendee, --Seçiniz--, Turkey, 2017

Determination of The Effects of Humic Acid Applications on Heavy Metal Contents of Soil. Ecology 2017 International Symposium', Attendee, Kayseri, Turkey, 2017

SONMEZ, O., ŞENER GÜZEL, G., TURAN, V., GUNES, A., ŞAHAN, S., BASARAN, M. 2017. Determination of Some Soil Parameters by Geostatistical Techniques in Harran Plain. Ecology 2017 International Symposium', Attendee, Turkey, 2017

SONMEZ, O., KAYA, C., ŞAHAN, S., GUNES, A. 2017. Some Soil Physical and Chemical Properties in Harran Plain. International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF)', Attendee, Turkey, 2017

TURAN, V., SONMEZ, O. 2017. Urban Transformation and Reduction of The Use of Agricultural land in Urbanization 'Urbanization: a challenge and an opportunity for soil functions and ecosystem services'. 9th International Congress Soils of Urban Industrial Traffic Mining and Military Areas (SUITMA 9), Attendee, Moscow, Russia, 2017

Comparisons of Agricultural Incidents during Urbanization 'Urbanization: a challenge and an opportunity for soil functions and ecosystem services'. 9th International Congress Soils of Urban Industrial Traffic Mining and Military Areas (SUITMA 9). Moscow, RUSYA, Attendee, Moscow, Russia, 2017

II. International Conference on Sustainable Development. October 18-23, 2016, Skopje/ MACEDONIA, Session Moderator, Skopje, Macedonia, 2016

SONMEZ, O. Effects of Soil Chemical and Physical Properties on Total and Available Phosphorus (P) in Soil. Poster. 6th

International Chemistry Conference. November 8-10, 2016, Riyadh/ SAUDI ARABIA., Attendee, Ar-Riyâd, Saudi Arabia, 2016

SONMEZ, O. Phosphorus Losses Influenced by Irrigation Efficiency, Tillage, and Phosphorus Rate (Oral presentation). II. International Conference on Sustainable Development. October 18-23, 2016, Skopje/ MACEDONIA., Attendee, Skopje, Macedonia, 2016

SONMEZ, O. Effects of Tillage and Phosphorus Rates on Wheat Yield and Soil P (Oral presentation). II. International Conference on Sustainable Development. October 18-23, 2016, Skopje/ MACEDONIA, Attendee, Skopje, Macedonia, 2016

KAYA, C., ASHRAF, M., SENBAYRAM, M., and SONMEZ, O. Aminolevulinic acid improves salinity-induced photo- protection mechanisms in two corn differing cultivars in salinity tolerance Deutschen Gesellschaft für Pflanzenernährung (DGP) Tagung 2015. Boden, Nährstoffe, Wasser- Forschung für die nachhaltige und effiziente Nutzung von Ressourcen 17.-18. September 2015, Göttingen/ GERMANY, Attendee, Göttingen, Germany, 2015

AYDEMİR, S., ARI, H., SONMEZ, O., KAYA, C., SAYGAN, E.P., and ALTUN, O. 2014. Biochar effects on saline and none-saline soil properties of the Harran Plain Southeastern Turkey. Oral Presentation. 9th International Soil Science Congress on 'The Soul of Soil and Civilization'. October 14-16, 2014, Side, Antalya/ TURKEY, Attendee, Side-Antalya, Turkey, 2014

TURAN, V., and SONMEZ, O. 2014. Effects of different soil amendments on total phosphorus availability. Oral Presentation. 9th International Soil Science Congress on 'The Soul of Soil and Civilization'. October 14-16, 2014, Side, Antalya/ TURKEY., Attendee, Turkey, 2014

KAYA, C., SONMEZ, O., ASHRAF, M., and TUNA, L. 2014.Regulation of growth and some vital physiological processes in salt stressed maize (*Zea mays* L.) plants by exogenous application of plant growth compounds. Oral Presentation. 9th International Soil Science Congress on 'The Soul of Soil and Civilization'. October 14-16, 2014, Side, Antalya/ TURKEY., Attendee, Turkey, 2014

KAYA, C., SONMEZ, O., AYDEMİR, S, and TUNA, A.L. 2012.. The use of some organic and inorganic substances to reduce phosphorus fixation in calcareous soils. Oral Presentation (Nutrient Management for Soil Sustainability Food Security and Human Health Section). 8th International Soil Science Congress on 'Land Degradation and Challenges in Sustainable Soil Management'. May 15-17, 2012, Çeşme-İzmir/ TURKEY., Attendee, Çeşme-İzmir/ TURKEY., Turkey, 2012

8th International Soil Science Congress on 'Land Degradation and Challenges in Sustainable Soil Management'. May 15-17, 2012, Çeşme-İzmir/ TURKEY., Session Moderator, İzmir, Turkey, 2012

AYDEMİR, S., SAYGAN, E.P., SONMEZ, O., and BİLGİLİ, A.V. 2012. Effect of Biochars on Salinity Stress on Germination and Seedling Properties of Drum Wheat (*T. Drum Desf.*) Oral Presentation (Land Degradation, Remediation, and Reclamation Section). 8th International Soil Science Congress on 'Land Degradation and Challenges in Sustainable Soil Management'. May 15-17, 2012, Çeşme-İzmir/ TURKEY., Attendee, Turkey, 2012

Kerem GÜNGÖR, Nusret KARAKAYA, Fatih EVRENDİLEK, Duran KARAKAŞ, Suat AKGÜL, Oğuz BAŞKAN, Hicrettin CEBEL and Osman SÖNMEZ. 2011 Using Soil Olsen Phosphorus Levels as a Screening Tool for Determination of Potential Critical Source Areas: Yeniçağa Watershed Case Study (Bolu, Turkey). 1st International Conference on Sustainable Watershed Management. 19-23 September 2011 Istanbul-TURKEY, Attendee, Turkey, 2011

Kerem GÜNGÖR, Nusret KARAKAYA, Fatih EVRENDİLEK, Duran KARAKAŞ, Suat AKGÜL, Oğuz BAŞKAN, Hicrettin CEBEL and Osman SÖNMEZ. 2011. Phosphorus Budget and Sediment Phosphorus Release Dynamics of a Shallow Lake: Lake Yeniçağa (Bolu, Turkey). 1st International Conference on Sustainable Watershed Management. 19-23 September 2011 Istanbul-TURKEY, Attendee, Turkey, 2011

BİLGİLİ, A.V, SÖNMEZ, O., AKIŞ, R., AYDEMİR, S. 2008. Geostatistical analysis of a water well field for determination of land management constraints, 19th. International Soil Meeting on Soil Fertility Land Management and Agroclimatology. Turkey., p: 1033-1046. Soil Science Society of Turkey Meetings. Sanlıurfa-TURKEY., Attendee, Turkey, 2008

AYDEMİR, S., M.A. ÇULLU, POLAT, T., O. SONMEZ, M. DİKİLİTAS, AKIL, H. 2008. Tuzlanma Etkisinde kalan Şanlıurfa-Harran Ovası topraklarının kullanım durumları ve iyileştirilebilirlik olanakları..Sulama-Tuzlanma Konferansı. DSİ XV. Bölge Müdürlüğü, Sayfa, 45-62. 12-13 Haziran, Şanlıurfa., Attendee, Turkey, 2008

SONMEZ, O and S. AYDEMİR. 2006 Assessment of Site Vulnerability to P Losses. An Overview. Proceedings. Vol.II. 577-583. 18th. International Soil Meeting (ISM) on Soil Sustaining Life on Earth, Managing Soil and Technology. Soil Science Society of Turkey Meetings Sanlıurfa-TURKEY., Attendee, Turkey, 2006

SONMEZ, O and S. AYDEMİR. 2006. Environmental Risk of Phosphorus and Management Strategies. An Overview. Proceedings. Vol.II. 528-533. 18th. International Soil Meeting (ISM) on Soil Sustaining Life on Earth, Managing Soil and Technology. Soil Science Society of Turkey Meetings. Sanlıurfa-TURKEY., Attendee, Turkey, 2006

AYDEMİR, S., M.A. ÇULLU, O. SONMEZ, M. DIKİLİTAS. 2005. Şanlıurfa Harran Ovasındaki Tuzlu ve Tuzlu-Sodik Topraklar ve Muhtemel Oluşum Mekanizmaları. II. Ulusal Sulama Sistemleri Sempozyumu ve Sergisi. DSİ Genel Müdürlüğü, Kasım 07-09. Ankara., Attendee, Turkey, 2005

SONMEZ, O. and G.M. PIERZYNSKI. 2003. Assessment of Bioavailability of Zinc by Diffusive Gradients in Thin Films (DGT). Poster Presentation (S-11, Board Number: 1631). Soil Science Society of America Annual Meetings. Denver, CO-USA, Attendee, Turkey, 2003

SONMEZ, O., G.M. PIERZYNSKI, B. DAVIS. 2002. A Field Assessment Tool for Phosphorus Losses in Runoff in Kansas. Poster Presentation (S-11, Board Number:1422). Soil Science Society of America Annual Meetings, Indianapolis, IN-USA., Attendee, Turkey, 2002

SONMEZ, O. and G.M. PIERZYNSKI. 2001. Effects of Phosphorus and Manganese Oxides on Soil Lead Bioavailability. Poster Presentation (S-11, Board Number: 1408). Soil Science Society of America Annual Meetings. Charlotte, NC- USA., Attendee, Turkey, 2001

PIERZYNSKI G.M, HETTIARACHCHI G, OEHME F, SONMEZ O. 2001. In situ stabilization of soil lead using phosphorus and other soil amendments. Abstracts of papers of the American Chemical Society 222: U67-U68 95-AGRO Part 1, AUG 2001., Attendee, Turkey, 2001

HETTIARACHCHI G., PIERZYNSKI G.M, OEHME F, SONMEZ O. 2001. Absorption of lead from a contaminated soil treated with phosphorus and manganese oxides by Sprague-Dawley rats. 6. International Conference on The Biogeochemistry of Trace Elements., Attendee, Turkey, 2001

BROHI, A.R., A.AKTAS, O. SONMEZ, and E. SAVASLI. 1996. Effects of Poultry Manure and Straw on some agronomic parameters, yield and NPK content of wheat crop grown under climatic conditions of Nevşehir region. European Society for New Methods in Agricultural Research: ESNA XXVI. Annual Meeting and International Union of Radioecologists (IUR) Working Group Soil - to - Plant Transfer Annual Meeting. September 12-16., Attendee, Turkey, 1996

## Invited Talks

IV. Araştırma ve İnnovasyon Çalıştayı, Workshop, Erciyes Üniversitesi, Turkey, June 2022

Türkiyede Tarım ve Sorunları, Workshop, Anadolu Grup Yeni Dünya İş Adamları Derneği Çalıştayı, Turkey, May 2022

Phosphorus Pollution in Soil and Phosphorus-Index in Climate Change. Swabi, PAKİSTAN, Conference, Karaçi Üniversitesi, Pakistan, April 2018

## Scholarships

YURTDIŞI DOKTORA, Ministry of Education, 1999 - 2004

YURTDIŞI YÜKSEK LİSANS, Ministry of Education, 1996 - 1998

DEVLET PARASIZ YATILI LİSE EĞİTİMİ, Ministry of Education, 1984 - 1988

## Awards

Sönmez O., 'Developing Climate-Resilient Crops' adlı Uluslararası kitap editörlüğü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022

Sönmez O., 'Plant Growth Regulators for Climate-Smart Agriculture' adlı Uluslararası kitap editörlüğü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022

Sönmez O., En Yüksek APP. puanı sahip olma, Erciyes Üniversitesi Ziraat Fakültesi, February 2022

Sönmez O., 'Climate Change and Plants' adlı Uluslararası kitap editörlüğü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022

Sönmez O., Yüksek H indeks Ödülü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022

Sönmez O., 'Sustainable Soil and Land Management and Climate Change' adlı Uluslararası kitap editörlüğü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022

Sönmez O., Akademik Yayın Teşvik Ödülü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022  
Sönmez O., 'Engineering Tolerance in Crop Plants against Abiotic Stress' adlı Uluslararası Kitap Editörlüğü, Erciyes Üniversitesi Ziraat Fakültesi, February 2022  
Sönmez O., Akademik Teşvik Ödülü, Erciyes Üniversitesi Ziraat Fakültesi, April 2021  
Sönmez O., Yüksek H-İndeksine sahip olma, Erciyes Üniversitesi Ziraat Fakültesi, April 2021  
Sönmez O., Fakültede En Yüksek 2. APP puanı, Erciyes Üniversitesi Ziraat Fakültesi, April 2021  
Sönmez O., Bilimsel Projelerde Başarı Ödülü, Erciyes Üniversitesi, January 2020  
Sönmez O., Bilimsel Projelerde Başarı Ödülü, Erciyes Üniversitesi, January 2019  
Sönmez O., Yüksek Akademik Teşvik Ödülü, Erciyes Üniversitesi, January 2019  
Sönmez O., The Irvin D. And Dora Mae Atkins Graduate Scholarship, Kansas State University Department of Agronomy, USA, Kansas State University, May 2003  
Sönmez O., The Ray I Trockmorton Graduate Scholarship, Kansas State University Department of Agronomy, USA, Kansas State University, May 2002  
Sönmez O., The Irvin D. And Dora Mae Atkins Graduate Scholarship, Kansas State University Department of Agronomy, USA, Kansas State University, May 2001  
Sönmez O., The Irvin D. And Dora Mae Atkins Graduate Scholarship, Kansas State University Department of Agronomy, USA, Kansas State University, June 2000  
Sönmez O., Burslu Yurtdışı Doktora, Milli Eğitim Bakanlığı, January 1999  
Sönmez O., Yurtdışı Yüksek Lisans , Milli Eğitim Bakanlığı, June 1995  
SÖNMEZ O., BÖLÜM BİRİNCİLİĞİ, CUMHURİYET ÜNİVERSİTESİ TOKAT ZİRAAT FAKÜLTESİ, June 1994  
Sönmez O., Parasız Yatılı Ziraat Meslek Lisesi Eğitimi, Milli Eğitim Bakanlığı, June 1984

## **Refereeing Duties**

Türkiye Teakwondo Müsabakası Seçmeleri-Organized Competitions, 1994

## **Non Academic Experience**

Other Public Institution, Tarım Ve Köy İşleri Bakanlığı Tokat İl Müdürlüğü, Çiftçi Eğitim Yayım Şubesi  
Tarım Bakanlığı

Other Public Institution, Tarım Ve Köy İşleri Bakanlığı Tokat İl Müdürlüğü, Çiftçi Eğitim Yayım Şubesi  
Tarım Bakanlığı