

Prof. Aysun Gümüş

Personal Information

Email: aysung@omu.edu.tr

Web: <https://avesis.omu.edu.tr/aysung>

International Researcher IDs

ScholarID: bCwi8PYAAAAJ

ORCID: 0000-0002-0217-6494

Publons / Web Of Science ResearcherID: B-9616-2009

ScopusID: 6603208703

Yoksis Researcher ID: 22617

Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 1994 - 1999

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), Turkey 1991 - 1993

Undergraduate, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1987 - 1991

Foreign Languages

English, C1 Advanced

Research Areas

Fisheries, Marine Biology, Population Biology

Academic and Administrative Experience

Ondokuz Mayıs University, 2011 - Continues

Courses

Balıklarda Yaş Tayini Doğrulama Metodları, Doctorate, 2013 - 2014, 2012 - 2013, 2006 - 2007, 2005 - 2006, 2003 - 2004

Balıkçılık Biyolojisi ve Populasyon Dinamiği, Undergraduate, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004

Biyoistatistik, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Limnoloji, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012

Balıklarda Adaptasyonlar, Doctorate, 2013 - 2014

Akuatik Ekosistem, Postgraduate, 2013 - 2014, 2007 - 2008, 2002 - 2003

Deniz Biyolojisi Lab, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Biyologlar için Temel İstatistik, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004

Deniz Biyolojisi, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Limnoloji Lab, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

Nehirağzı (Estuarin) Biyolojisi, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Balık Populasyonlarında Biyoistatistik Hesaplamalar ve Yorumları, Doctorate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2008 - 2009, 2005 - 2006, 2003 - 2004

Hidrobiyoloji, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

Karadeniz Ekosistemi, Postgraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011

Bilim Tarihi ve Biyoloji Felsefesi, Undergraduate, 2012 - 2013, 2011 - 2012

Mesleki Yabancı Dil (İngilizce), Undergraduate, 2010 - 2011, 2009 - 2010

Limnoloji Lab, Postgraduate, 2010 - 2011

Limnolojide Araştırma Yöntemleri, Postgraduate, 2009 - 2010

Omurgasız Hayvanlar Sistematigi Lab, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2004 - 2005, 2003 - 2004

Balık Biyolojisi, Postgraduate, 2009 - 2010

İç Sularda Pollusyon, Postgraduate, 2009 - 2010, 2008 - 2009, 2006 - 2007

Balık Ekolojisi, Postgraduate, 2008 - 2009

Omurgalı Hayvanlar Sistematigi Lab, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

Bilim Tarihi, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006

İçsu Balıkları Üretim Teknikleri, Postgraduate, 2005 - 2006

Balık Stokları Tesbiti ve İdare Yöntemleri, Doctorate, 2005 - 2006

Omurgalı Hayvanlar Sistematigi, Undergraduate, 2004 - 2005

İleri Limnoloji, Postgraduate, 2003 - 2004

Omurgalı Hayvan Sistematigi, Undergraduate, 2003 - 2004

Zooloji, Undergraduate, 2003 - 2004

Genel Biyoloji, Undergraduate, 2003 - 2004

Balık Populasyonlarında Biyoistatistik Hesaplamalar ve Yorumları, Doctorate, 2002 - 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Technological innovations to reduce the impact of bottom gears on the seabed**
Sala A., Depestele J., Gümüş A., Laffargue P., Nielsen J. R., Polet H., Smith C. J., Zengin M., Bastardie F., Eigaard O. R., et al.
MARINE POLICY, vol.157, 2023 (SSCI)
- II. **Determination of functional structure of soft-bottom marine macrobenthic communities of the Samsun Shelf Area using biological traits analysis**
Van A., Gümüş A.
OCEANOLOGICAL AND HYDROBIOLOGICAL STUDIES, vol.50, no.4, pp.473-487, 2021 (SCI-Expanded)
- III. **Stakeholder perceptions in fisheries management - Sectors with benthic impacts**
Soma K., Nielsen J., Papadopoulou N., Polet H., Zengin M., Smith C., Eigaard O., Sala A., Bonanomi S., van den Burg S., et al.
Marine Policy, vol.92, pp.73-85, 2018 (SSCI)
- IV. **Effect of steel wire and claw size on the sea snail (*Rapana venosa*) catch in a Black Sea beam trawl fishery**
KAYKAÇ M. H., Gümüş A., Zengin M., Suer S., Ruzgar M., Van A., TOSUNOĞLU Z.
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, no.4, pp.251-258, 2018 (SCI-Expanded)
- V. **Differences in biological traits composition of benthic assemblages between unimpacted habitats**
Bolam S. G., Garcia C., Eggleton J., Kenny A. J., Buhl-Mortensen L., Gonzalez-Mirelis G., van Kooten T., Dinesen G.,

Hansen J., Hiddink J. G., et al.

MARINE ENVIRONMENTAL RESEARCH, vol.126, pp.1-13, 2017 (SCI-Expanded)

- VI. **Biological Data Derived from Sturgeon (*Acipenser stellatus*, *Acipenser gueldenstaedtii* and *Huso huso*) by-Catch along the Coasts of the Southern Black Sea (Turkey)**
Zengin M., Gümüş A., Dagtekin M., Firidin S.
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.13, no.4, pp.745-752, 2013 (SCI-Expanded)
- VII. **First record of brown comber *Serranus hepatus* (Linnaeus, 1758) for the Black Sea**
DALGIÇ G., Gümüş A., Zengin M.
TURKISH JOURNAL OF ZOOLOGY, vol.37, no.4, pp.523-524, 2013 (SCI-Expanded)
- VIII. **One century of eel growth: changes and implications**
Daverat F., Beaulaton L., Poole R., Lambert P., Wickstrom H., Andersson J., Aprahamian M., Hizem B., Elie P., YALÇIN ÖZDİLEK Ş., et al.
ECOLOGY OF FRESHWATER FISH, vol.21, no.3, pp.325-336, 2012 (SCI-Expanded)
- IX. **Age and growth of the Mesopotamian spiny eel, *Mastacembelus mastacembelus* (Banks & Solender, 1794), from southeastern Anatolia**
Gümüş A., ŞAHİNÖZ E., DOĞU Z., Polat N.
TURKISH JOURNAL OF ZOOLOGY, vol.34, no.3, pp.399-407, 2010 (SCI-Expanded)
- X. **Age structure and growth by otolith interpretation of *Neogobius melanostomus* (Gobiidae) from Southern Black Sea**
Gümüş A., Kurt A.
CYBIUM, vol.33, no.1, pp.29-37, 2009 (SCI-Expanded)
- XI. **Age determination of *Scardinius erythrophthalmus* (Cyprinidae) inhabiting Bafra Fish Lakes (Samsun, Turkey) based on otolith readings and marginal increment analysis**
Gumus A., Bostanci D., Yilmaz S., Polat N.
CYBIUM, vol.31, no.1, pp.59-66, 2007 (SCI-Expanded)
- XII. **Aged-based food preferences of common carp (*Cyprinus carpio* L., 1758) inhabiting fish lakes in the Bafra district of Samsun province (Lakes Tatli and Gici) Samsun-Bafra balik gölleri (Tatli göl ve Gici gölü) 'nde yaşayan sazan (*Cyprinus carpio* L., 1758)'in yaşlara göre besin tercihi**
YILMAZ M., Gümüş A., Yılmaz S., Polat N.
Turkish Journal of Veterinary and Animal Sciences, vol.27, no.4, pp.971-978, 2003 (SCI-Expanded)
- XIII. **Bıyıklı Balık *Barbus plebejus escherichi* Steindachner 1897 in Yaş Tayininde Kemiksi Yapı Okuyucu Uyum Değerlendirmesi**
Polat N., Işık K., Gümüş A.
TURKISH JOURNAL OF ZOOLOGY, no.17, pp.503, 1993 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of two-phase growth in demersal fish species from the southern Black Sea coast**
VAN A., GÜMÜŞ A.
Iranian Journal of Ichthyology, vol.8, no.2, pp.125-133, 2021 (Scopus)
- II. **Age, growth and mortality of black goby *Gobius niger* linnaeus, 1758 (Family: Gobiidae) from the south-eastern Black Sea**
VAN A., GÜMÜŞ A.
International Journal of Zoology Studies, vol.6, no.2, pp.1-7, 2021 (Peer-Reviewed Journal)
- III. **Evidence on Otolith Structure and some Ecological Features of Three Small Foraging Species along the Southern Black Sea Coast**
GÜMÜŞ A., VAN A., ZENGİN M., SÜER S.
Acta Aquatica Turcica, vol.17, no.2, pp.267-278, 2021 (Peer-Reviewed Journal)
- IV. **Age estimation and the best growth model selection of the tentacled blenny *Parablennius tentacularis* (Brunnich, 1768) in the southeastern Black Sea**

Van A., Gümüş A., Özpiçak M., Suer S.

SU URUNLERI DERGISI, vol.38, no.2, pp.229-236, 2021 (ESCI)

- V. **Length-Weight Relationships and Condition Factors of 15 Fish Species from Kizilirmak-Yesilirmak Shelf Area, the South-Eastern Black Sea**
VAN A., GÜMÜŞ A., SÜER S.
Natural and Engineering Sciences, vol.4, no.1, pp.21-27, 2019 (Peer-Reviewed Journal)
- VI. **Report on technological innovations and management scenario's to mitigate fishing impacts on the benthic ecosystem and their socio-economic consequences in regional seas, Black Sea Case Study**
GÜMÜŞ A., RÜZGAR M., KAYKAÇ M. H., TOSUNOĞLU Z., UZMANOĞLU M. S., CEYHAN V.
Benthic Ecosystem Impact Study, 2017 (Non Peer-Reviewed Journal)
- VII. **DIP SURUTME AGLARININ BENTİK MAKROFAUNA UZERİNDEKİ ETKİLERİ: MARMARA VE KARADENİZ'DEKİ GÜNCEL DURUM**
Zengin M., GÜMÜŞ A., KAYKAÇ M. H., TOSUNOĞLU Z., özcan akpınar i.
Turkish Journal of Aquatic Sciences, vol.32, no.2, pp.76-95, 2017 (Peer-Reviewed Journal)
- VIII. **İstilacı Balık Türleri ve Hayat Stratejileri**
POLAT N., ÖZPİÇAK M., GÜMÜŞ A.
Karadeniz Fen Bilimleri Dergisi / The Black Sea Journal of Sciences, vol.1, no.4, pp.63-86, 2011 (Peer-Reviewed Journal)
- IX. **Relative Importance of Food Items of Chondrostoma regium 1843 and Its Relation with the Time of Annulus Formation**
GÜMÜŞ A., YILMAZ M., POLAT N.
Tr. J. of Zoology, vol.26, no.26, pp.271-278, 2002 (Scopus)
- X. **Annulus formation in tigris-nase (Chondrostoma regium (Heckel, 1843))**
POLAT N., GÜMÜŞ A., KANDEMİR Ş.
Turkish Journal of Zoology, vol.23, no.supp3, pp.959-964, 1999 (Scopus)
- XI. **Ageing of whiting (Merlangius merlangus euxinus, Nord., 1840) based on broken and burnt otolith**
Polat N., Gümüş A.
Fisheries Research, vol.28, no.2, pp.231-236, 1996 (Scopus)
- XII. **Orta Karadeniz de Avlanan Camgöz Squalus acanthias L 1758 ün Boy Ağırlık İlişkisi**
SAMSUN O., POLAT N., GÜMÜŞ A.
Ege Üniversitesi, Su Ürünleri Dergisi, no.12, pp.27, 1995 (Peer-Reviewed Journal)
- XIII. **Age determination and evaluation of precision using five bony structures of the brond-snout (Chondrostoma regium Heckel, 1843)**
Polat N., Gümüş A.
Turkish Journal of Zoology, vol.19, no.4, pp.331-335, 1995 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Impact of Beam Trawl Fisheries on the Benthic Macrofauna in the Southern Black Sea**
Zengin M., GÜMÜŞ A., süer s., RÜZGAR M., özcan akpınar i., VAN A.
2nd International UNIDOKAP Black Sea Symposium on BIODIVERSITY, Samsun, Turkey, 28 - 30 November 2018
- II. **Benthic Macroinvertebrate Communities of Kızılırmak and Yeşilirmak Estuarine (Black Sea, Turkey) Preliminary Results**
RÜZGAR M., GÜMÜŞ A., süer s.
2nd International UNIDOKAP Black Sea Symposium on BIODIVERSITY, Samsun, Turkey, 28 - 30 November 2018
- III. **Epifaunal Assemblages and Their Vulnerability to Trawling in a Coastal Ecosystem Southern Black Sea**
GÜMÜŞ A., süer s., van a., RÜZGAR M., zengin m., özcan akpınar i.
41. CIESM Congress, Kiel, Germany, 12 - 16 September 2016
- IV. **The Fisheries Impact on the Benthic Ecosystem of Samsun Shelf Area in the Turkish Black Sea Coast**

zengin m., GÜMÜŞ A., süer s., RÜZGAR M., van a., özcan akpınar i., TOSUNOĞLU Z., KAYKAÇ M. H., başçınar s., UZMANOĞLU M. S., et al.

FABA, Trabzon, Turkey, 25 - 27 September 2014

V. The Factors Controlling the Spatial and Seasonal Distribution of the Demersal Fish and Zoobenthic Assemblages Along Nearshore Waters of Samsun Shelf Area

GÜMÜŞ A., süer s., van a., RÜZGAR M., zengin m., çelik t., osma r.

FABA, Trabzon, Turkey, 25 - 27 September 2013

VI. Kızılkanat Scardinius erythrophthalmus L 1758 ın Kemiksi Yapılarında Opak Birikim Analizi ile Yaş Doğrulaması

GÜMÜŞ A., BOSTANCI D., YILMAZ S., POLAT N.

XI.ULUSAL SU ÜRÜNLERİ SEMPOZYUMU, Turkey, 4 - 07 September 2001

Supported Projects

Rüzgar M., Tayhan Y., Süer S., Gümüş A., Project Supported by Higher Education Institutions, Sarıkuyruk İstavrit Balığının (Trachurus mediterraneus) Güney Karadeniz Sularındaki Fenotipik ve Genetik Varyasyonların İncelenmesi, 2018 - 2021

Gümüş A., Project Supported by Higher Education Institutions, FAO FISH FORUM 2018, Forum on Fisheries Science in the Mediterranean and Black Sea, 2018 - 2019

Gümüş A., Project Supported by Higher Education Institutions, 2nd International UNIDOKAP Black Sea Symposium on Biodiversity, 2018 - 2019

Rüzgar M., Arıman S., Van A., Süer S., Gümüş A., Project Supported by Higher Education Institutions, Kızılırmak ve Yeşilirmak nehirağzı Güney Karadeniz ekosistemlerinin işleyişinde bentik makroomurgasız kommüniteler ve çevresel değişken ilişkileri PYO FEN 1901 16 002, 2016 - 2019

Gümüş A., Project Supported by Higher Education Institutions, 41st CIESM Congress, 2016 - 2017

Gümüş A., Project Supported by Higher Education Institutions, CIESM (The Mediterranean Science Commission) 40th CIESM Congress, 2016 - 2016

Gümüş A., Project Supported by Higher Education Institutions, Dalgıç, G., Gümüş, A. and Zengin, M. First record of brown comber Serranus hepatus (Linnaeus, 1758) for the Black Sea,, 2014 - 2016

Ardalı Y., Akbal F., Bakan G., Turan N. G., Kuleyin A., Beyazıt N., Gümüş A., Şişman A., Atay Ş., Aykaç Özen H., et al., Project Supported by Other Official Institutions, Derin Deniz Deşarjı Tasarım Kriterlerinin Belirlenmesi Projesi, 2015 - 2015