

Asst. Prof. KORHAN ÖZKAN

Personal Information

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Address: ODTÜ Deniz Bilimleri Enstitüsü Erdemli Mersin

Biography

Ecologist with focus on community, aquatic and avian ecology. Current research focus on freshwater and sea interactions, seabird ecology and conservation. Assistant professor at the Institute of Marine Sciences, Middle East Technical University. PhD (Denmark) on modelling community assembly and MSc (Turkey) on experimental limnology. Strong experience on scripting for ecological statistics using R and spatial analyses using ArcGIS. Led and participated in >15 months fieldwork on antarctic/arctic lakes, experimental limnology (mesocosms), ecosystem monitoring and avian communities in Turkey, Denmark, Greenland, Antarctica as well as Mediterranean, Marmara and Black Seas. Experienced in limnological lab work (chemistry and stable isotope analyses, zooplankton identification). Supervised 3 MSc and >10 undergraduate students. Teaching graduate and undergraduate courses on aquatic ecology, statistics and GIS. Published 17 manuscripts (eight first-author/first-authored by my students) with 581 google scholar citations and eight finished manuscripts in different stages of submission. Co-authored nine scientific reports and 60 presentations. Accomplished scuba diver, birdwatcher and nature photographer.

Education Information

Doctorate, Aarhus Universitet (University Of Aarhus), Denmark 2009 - 2013

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoloji (YI) (Tezli), Turkey 2005 - 2008

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2000 - 2005

Dissertations

Doctorate, Ecological drivers of community assembly across taxonomic groups and trophic levels, Aarhus Universitet (University Of Aarhus), 2013

Post Graduate, Role of nitrogen in submerged plant development in Mediterranean climatic zone - a mesocosm experiment, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoloji (YI) (Tezli), 2008

Research Areas

Environmental Biology, Ecology

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Institute of Marine Sciences, Deniz Biyolojisi Ve Balıkçılığı Anabilim

Dalı, 2018 - Continues

Assistant Professor, Middle East Technical University, Institute of Marine Sciences, Deniz Biyolojisi Ve Balıkçılıđı Anabilim

Dalı, 2014 - 2018

Research Assistant, Aarhus Universitet (University Of Aarhus), 2009 - 2013

Professional Experience

Uygulama ve Arařtırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, 2018 - Continues

Fakülte Yönetim Kurulu Üyesi, Middle East Technical University, Institute of Marine Sciences, Marine Biology and Fisheries, 2015 - Continues

Advising Theses

ÖZKAN K., Breeding marine birds in the Southeast Mediterranean coasts of anatolia: Habitat population size relationship, and genetic structure of threatened audouin's gull population, Post Graduate, B.ÇAĞRI(Student), 2018

ÖZKAN K., Genetic structure and hatchling behavior of sea turtle populations in the Eastern Mediterranean, Post Graduate, F.NUR(Student), 2017

BEKLİOĞLU M., ÖZKAN K., Elucidating the patterns in mid-winter waterbird surveys by using climate, lake water level changes and macrophyte records, Post Graduate, İ.KAAN(Student), 2017

Jury Memberships

Post Graduate, Post Graduate, Orta Dođu Teknik Üniversitesi, September, 2019

Doctoral Examination, Doctoral Examination, Orta Dođu Teknik Üniversitesi, June, 2019

Award, Ekoloji ve Evrimsel Biyoloji Derneđi Öğrenci ödül Komitesi Üyeliđi, Ekoloji ve Evrimsel Biyoloji Derneđi, January, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, December, 2017

Designed Lessons

Özkan K., Introduction to GIS, Post Graduate, 2014 - 2015

Özkan K., Programming in R for Marine Sciences, Post Graduate, 2014 - 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Seasonal and long-term trends in the spatial heterogeneity of lake phytoplankton communities over two decades of restoration and climate change**
Fu H., Yuan G., Özkan K., Johansson L. S., Søndergaard M., Lauridsen T. L., Jeppesen E.
Science of the Total Environment, vol.748, 2020 (Journal Indexed in SCI Expanded)
- **Changes in functional composition and diversity of waterbirds: The roles of water level and submerged macrophytes**
Özgencil İ. K., Bekliođlu M., Özkan K., Tavşanođlu Ç., Fattorini N.
Freshwater Biology, vol.65, pp.1845-1857, 2020 (Journal Indexed in SCI Expanded)
- **Patterns of Seasonal Stability of Lake Phytoplankton Mediated by Resource and Grazer Control During Two Decades of Re-oligotrophication**

Fu H., Yuan G., Özkan K., Johansson L. S., Sondergaard M., Lauridsen T. L., Jeppesen E.

ECOSYSTEMS, 2020 (Journal Indexed in SCI)

Influences of climate and nutrient enrichment on the multiple trophic levels of Turkish shallow lakes

Beklioğlu M., Bucak T., Levi E. E., Erdogan S., Ozen A., Filiz N., Bezirci G., Cakiroglu A. I., Tavsanoğlu U. N., Gökçe D., et al.

INLAND WATERS, vol.10, pp.173-185, 2020 (Journal Indexed in SCI)

Using an in-situ infra-red camera system for sea turtle hatchling emergence monitoring

Oğul F. N., Huber F., Cihan S., Duzgun K., KIDEYŞ A. E., ÖZKAN K.

ACTA HERPETOLOGICA, vol.14, pp.43-49, 2019 (Journal Indexed in SCI)

Data Descriptor: A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins

MANTZOUKÍ E., CAMPBELL J., van Loon E., VISSER P., KONSTANTÍNOU I., ANTONÍOUI M., GIULIANI G., MACHADO-VIEIRA D., de Oliveira A. G., Maronic D. S., et al.

SCIENTIFIC DATA, vol.5, 2018 (Journal Indexed in SCI)

Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins

MANTZOUKÍ E., LURLING M., FASTNER J., DOMÍS L. d. S., WÍLK-WOZNIÁK E., KOREÍVIENE J., SEELEN L., TEURLINCX S., Verstijnen Y., KRZTON W., et al.

TOXINS, vol.10, 2018 (Journal Indexed in SCI)

Restoration of Eutrophic Lakes with Fluctuating Water Levels: A 20-Year Monitoring Study of Two Inter-Connected Lakes

BEKLİOĞLU M., Bucak T., Coppens J., Bezirci G., Tavsanoğlu U. N., Cakiroglu A. I., Levi E. E., Erdogan S., Filiz N., ÖZKAN K., et al.

WATER, vol.9, 2017 (Journal Indexed in SCI)

Long-Term Trends and Temporal Synchrony in Plankton Richness, Diversity and Biomass Driven by Re-Oligotrophication and Climate across 17 Danish Lakes

Özkan K., Jeppesen E., Davidson T. A., Bjerring R., Johansson L. S., Sondergaard M., Lauridsen T. L., Svenning J.

WATER, vol.8, 2016 (Journal Indexed in SCI)

Factors influencing nitrogen processing in lakes: an experimental approach

Olsen S., Jeppesen, Jeppesen E., Moss B., Ozkan K., Beklioğlu M., Feuchtmayr H., Gonzalez Sagrario M., Wei, Wei L., Larsen S., Lauridsen T. S., et al.

FRESHWATER BIOLOGY, vol.60, pp.646-662, 2015 (Journal Indexed in SCI)

Cross-taxon congruence in lake plankton largely independent of environmental gradients

Özkan K., Jeppesen E., Davidson T. A., Sondergaard M., Lauridsen T. L., Bjerring R., Johansson L. S., Svenning J.

ECOLOGY, vol.95, pp.2778-2788, 2014 (Journal Indexed in SCI)

Fish determine macroinvertebrate food webs and assemblage structure in Greenland subarctic streams

Gonzalez-Bergonzoni I., Landkildehus F., Meerhoff M., Lauridsen T. L., Özkan K., Davidson T. A., Mazzeo N., Jeppesen E.

FRESHWATER BIOLOGY, vol.59, pp.1830-1842, 2014 (Journal Indexed in SCI)

Contrasting roles of water chemistry, lake morphology, land-use, climate and spatial processes in driving phytoplankton richness in the Danish landscape

Özkan K., Jeppesen E., Sondergaard M., Lauridsen T. L., Liboriussen L., Svenning J.

HYDROBIOLOGIA, vol.710, pp.173-187, 2013 (Journal Indexed in SCI)

Environmental species sorting dominates forest-bird community assembly across scales

Özkan K., Svenning J., Jeppesen E.

JOURNAL OF ANIMAL ECOLOGY, vol.82, pp.266-274, 2013 (Journal Indexed in SCI)

Biomanipulation as a Restoration Tool to Combat Eutrophication: Recent Advances and Future Challenges

Jeppesen E., Sondergaard M., Lauridsen T. L., Davidson T. A., Liu Z., Mazzeo N., Trochine C., ÖZKAN K., Jensen H. S., Trolle D., et al.

ADVANCES IN ECOLOGICAL RESEARCH, VOL 47: GLOBAL CHANGE IN MULTISPECIES SYSTEMS, PT 2, vol.47,

- pp.411-428, 2012 (Journal Indexed in SCI)
Climate change effects on nitrogen loading from cultivated catchments in Europe: implications for nitrogen retention, ecological state of lakes and adaptation
Jeppesen, Jeppesen E., Kronvang B., Olesen J. E., Audet J., Sondergaard M., Hoffmann C. C., Andersen H. E., Lauridsen T. L., Liboriussen L., Larsen S. E., et al.
HYDROBIOLOGIA, vol.663, pp.1-21, 2011 (Journal Indexed in SCI)
- **The response of periphyton and submerged macrophytes to nitrogen and phosphorus loading in shallow warm lakes: a mesocosm experiment**
ÖZKAN K., JEPPESEN E., Johansson L. S., BEKLIOGLU M.
FRESHWATER BIOLOGY, vol.55, pp.463-475, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- **An avifaunal survey of the Istranca mountains turkish thrace novel breeding bird records including the first breeding record of Wood Warbler Phylloscopus sibilatrix in Turkey**
Özkan K.
Sandgrouse, vol.33, pp.163-173, 2011 (Refereed Journals of Other Institutions)
- **Archaeological Underwater Surveys of the Cilician Coasts in 2004**
Volkan E., Mert A., ÖZKAN K., Çiğdem T E., Korhan B., Murat B., Zoroğlu L.
ANMED, vol.2005, 2005 (National Non-Refereed Journal)

Books & Book Chapters

- **Catchment-Sea Interactions in the Black Sea**
ÖZKAN K., ÖZHAN K., YÜCEL M.
in: Black Sea Marine Environment: The Turkish Shelf, Sezgin Murat, Bat Levent, Ürkmez Derya, Arıcı Elif, Öztürk Bayram, Editor, Turkish Marine Research Foundation (TÜDAV), İstanbul, pp.98-113, 2017
- **Deep sea ecosystems of the Eastern Mediterranean**
Yücel M., Özkan K., Tezcan D.
in: The Turkish Part of the Mediterranean Sea Marine Biodiversity Fisheries Conservation and Governance, Derya Ürkmez, Murat Sezgin, Levent Bat, Bayram Öztürk, Editor, Türkiye Deniz araştırmaları Vakfı, İstanbul, pp.98-113, 2016

Refereed Congress / Symposium Publications in Proceedings

- **Doğu Akdenizin Yok Olan Deniz Kuşları**
ÖZKAN K.
19. Kuş Konferansı, Turkey, 17 - 22 May 2019
- **The Response Of Temperate Forest Bird Communities Of Istranca Mountains To Decadal Forestry Activities**
ÖZKAN K.
Bird Numbers, 8 - 13 April 2019
- **The response of abundance and community structure of ghost crab communities to changes in human beach use and coastal habitat quality in the East Mediterranean.**
Bal M., Yapan B. Ç., Özkan K.
8. International Sandy Beach Symposium, Heraklion, Greece, 25 May 2018, pp.1
- **Sahillerdeki İnsan Baskısı ve Habitat Özelliklerinin Hayalet Yengeç (Ocypode cursor) Popülasyonlarının Bolluk ve Yapısına Etkisi**

Bal M., Yapan B. Ç. , Özkan K.

3. Ulusal Deniz Bilimleri Kongresi, İzmir, Turkey, 10 May 2018, pp.41

Comparing the permanently anoxic Black Sea with the rapidly deoxygenating Marmara Sea: Distinct redox processes of sulfur, nitrogen and oxygen in the two interconnected basins.

YÜCEL M., SALİHOĞLU B., Örek H., FACH B. A. , Arkin S., AKOĞLU E., ÖZKAN K., AKÇAY İ., Güraslan C., TEZCAN D., et al.

Ocean Sciences Meeting 2018, Portland, United States Of America, 12 - 16 February 2018

Doğu Akdeniz Deniz Kaplumbağaları Populasyonlarının Genetik Yapısı

Oğul F. N. , KARAHAN A., BETON SNAPE D., CANBOLAT A. F. , SÖNMEZ B., SNAPE R., KIDEYŞ A. E. , ÖZKAN K.

V. ULUSAL DENİZ KAPLUMBAĞALARI SEMPOZYUMU, Turkey, 6 - 08 December 2017

Marmara Denizi için Bütünleşik Modelleme Sistemi

SALİHOĞLU B., TUĞRUL S., ÖZKAN K., TEZCAN D., YÜCEL M.

Marmara denizi Sempozyumu, Turkey, 21 - 22 November 2017

SEABIRDS OF THE NORTH EAST MEDITERRANEAN: SEABIRDS AS SENTINELS OF ECOSYSTEM HEALTH

YAPAN B. Ç. , ÖZKAN K.

International Iskenderun Bay Symposium, 11 - 13 October 2017

Genetic structure of the breeding Audouin's gull (*Larus audouinii*) in the Mediterranean

YAPAN B. Ç. , PERKTAŞ U., KARAHAN A., ORO d., GUİNART M., ÖZKAN K.

41. Waterbirds Congress, 8 - 12 August 2017

Breeding seabirds of Eastern Mediterranean islands and the current status of Audouin's Gull (*Larus audouinii*)

Özkan K., Yapan B. Ç.

41. Waterbirds Congress. Iceland, Reykjavik, Iceland, 08 August 2017

Forest bird community response to a decade of forestry activities in Istranca Forests. Özkan K. , Turkey. 2017.

ÖZKAN K.

IV. Ecology and Evolutionary Biology Symposium, 11 - 13 July 2017

The effect of human beach use on the abundance and distribution of ghost crabs in East Mediterranean.

bal m., YAPAN B. Ç. , ÖZKAN K.

4th Ecology and Evolutionary Biology Symposium Turkey, 11 - 13 July 2017

Ecological Campus: Ecology in Backyard

Yapan B. Ç. , Akkuş G., Başkır, Başkır S., Çoraman, Çoraman E., Oğul, Oğul F. N. N. , Özkan K., Tohumcu B. E. , Yalçinkaya D.

4th Ecology and Evolutionary Biology Symposium Turkey, Ankara, Turkey, 11 - 13 July 2017

Selecting site and species for conservation/restoration A case study from coastal ecosystems: Sea birds and Audouin's Gulls

YAPAN B. Ç. , ÖZKAN K.

CACFish Regional Expert Meeting on Conservation and Management of Fish Genetic Resources, 2 - 04 May 2017

Status and structure of breeding gull populations in North eastern Mediterranean island

YAPAN B. Ç. , PERKTAŞ U., KARAHAN A., ORO D., ÖZKAN K.

3rd Ecology and Evolutionary Biology Symposium, 31 August - 01 October 2016

Genetic analysis of north eastern Mediterranean populations of green sea turtle and loggerhead sea turtle

Oğul F. N. , Karahan A., BETON SNAPE D., CANBOLAT A. F. , SÖNMEZ B., Snape R., KIDEYŞ A. E. , ÖZKAN K.

III. Ecology and Evolutionary Biology Symposium, 31 August - 01 September 2016

Genetic analysis of North-Eastern Mediterranean populations of green sea turtle and loggerhead sea turtle

OĞUL F. N. , KARAHAN A., BETON SNAPE D., CANBOLAT A. F. , SÖNMEZ B., SNAPE R., KIDEYŞ A. E. , ÖZKAN K.

3rd Ecology and Evolutionary Biology Symposium, 31 August - 01 September 2016

Danish lake plankton opportunities of analysing long term monitoring datasets

ÖZKAN K., Jeppesen E., Bjerring R., Johansson L. S. , Sondergaard M., Lauridsen T., Davidson T., Svenning J. C.

III. Ecology and Evolutionary Biology Symposium, 31 August - 01 September 2016

Lake morphometry and occurrence sticklebacks are the main drivers of size and age structure of arctic charr *Salvelinus alpinus* in west Greenland lakes

Arranz I., Benejam L., Brucet S., Landkildehus F., Lauridsen T., Davidson T., Mazzeo N., GonzalesBergonzoni I., Vidal N., ÖZKAN K., et al.

33rd SIL Congreeess, 31 July - 05 August 2016

ADA MARTISI (*Larus audouinii*) DOĞU AKDENİZ POPÜLASYONLARINININ YAKIN DÖNEMLİ DEĞİŞİKLİKLERİNİN GENETİK YÖNTEMLER KULLANILARAK ANLAŞILMASI

YAPAN B. Ç. , PERKTAŞ U., KARAHAN A., Oro D., ÖZKAN K.

TürkiyeDeniz Bilimleri Konferansı, Turkey, 31 May - 03 June 2016

YEŞİL DENİZ KAPLUMBAĞASI VE İRİBAŞ DENİZ KAPLUMBAĞASININ KUZEYDOĞU AKDENİZ POPULASYONLARININ GENETİK ANALİZİ

Oğul F. N. , KARAHAN A., BETON SNAPE D., CANBOLAT A. F. , SÖNMEZ B., SNAPE R., KIDEYŞ A. E. , ÖZKAN K.

TürkiyeDeniz Bilimleri Konferansı, Turkey, 31 May - 03 June 2016

Supported Projects

ÖZKAN K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Deniz Ekosistem ve İklim Araştırmaları Merkezi, 2012 - Continues

Özhan K., Özkan K., Akoğlu E., TUBITAK Project, Yeraltı suyu taşınımının Kilikya Baseni su ve besin elementi bütçesindeki yerinin gözlem, radyoizotop ve modelleme çalışmaları ile tespiti, 2020 - 2023

Özkan K., TUBITAK Project, Antarktika Besin Ağlarının Çevresel Değişimlere Verdiği Tepkilerin Kararlı İzotop, Edna Ve Palaeoekolojik Yöntemlerle İncelenmesi, 2019 - 2021

ÖZKAN K., YAPAN B. Ç. , Project Supported by Higher Education Institutions, ODTÜ Erdemli Kampüsü Ekosisteminin ETS (Erdemli Time Series) ile Uyumlu Olarak İzlenmesi, 2018 - 2020

TEZCAN D., ÖZKAN K., UYSAL Z., AKOĞLU E., TUĞRUL S., KIDEYŞ A. E. , YÜCEL M., SALİHOĞLU B., ZENGİNER YILMAZ A., Project Supported by Higher Education Institutions, Erdemli Zaman Serisi Deniz Araştırmaları 2017, 2017 - 2019

ÖZKAN K., KARAHAN A., OĞUL F. N. , Karahan A., KIDEYŞ A. E. , ZENGİNER YILMAZ A., Project Supported by Higher Education Institutions, Yes, il Deniz Kaplumbag^ası, I-ribas, lı Deniz Kaplumbag^ası ve Nil Nehir Kaplumbag^asının Kuzey-Dog^u Akdeniz Popu^lasyonlarının R35 Intron gen bo^lgesi kullanılarak incelenmesi, 2016 - 2019

Salihoglu B., Tuğrul S., Fach Salihoglu B. A. , Yücel M., Özhan K., Özkan K., Akoğlu E., Tezcan D., Akçay İ., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Marmara Denizi Bütünleşik Model Sistemi: Faz 1, 2017 - 2018

Özkan K., Project Supported by Other Official Institutions, Capacity Building on Marine Strategy Framework Directive in Turkey, 2016 - 2018

ÖZKAN K., KURT M., ÇİĞDEM C., BİLİR B., BARUT M. O. , OĞUL F. N. , YÜKRÜK C., YAPRAK G., KIRDÖK İ., TOHUMCU B. E. , et al., Project Supported by Higher Education Institutions, Ekolojik Kampus: ODTÜ Erdemli Kampusu Biyolojik Çeşitliliği, 2017 - 2017

Özkan K., Kideys A. E. , Municipality, MERSİN KIYILARINDA DENİZ KAPLUMBAĞALARININ VE İKLİM DEĞİŞİKLİĞİNİN DENİZ KAPLUMBAĞALARI ÜZERİNDEKİ ETKİLERİNİN İZLENMESİ İLE DENİZLERİN KORUNMASI KONUSUNDA ORTA ÖĞRETİM ÇOCUKLARINDA FARKINDALIK YARATMA PROJESİ, 2016 - 2017

ÖZKAN K., YAPAN B. Ç. , Project Supported by Higher Education Institutions, İnsan Kaynaklı Habitat Değişimlerinin Kuş Toplulukları Üzerindeki Etkilerinin İncelenmesi, 2015 - 2017

Özkan K., Kideys A. E. , Project Supported by Higher Education Institutions, ODTÜ Deniz Bilimleri Enstitüsü Yerleşkesi Kıyılarının Deniz Kaplumbağaları Açısından Ekolojik Özelliklerinin Belirlenmesi BAP 07 01 2012 001, 2012 - 2015

Özkan K., Project Supported by Other Official Institutions, Yıldız Mountains Avifauna Diversity Surveys, 2009 - 2009

Beklioğlu M., TUBITAK Project, Ülkemiz sığ göllerinin ekolojik yapısı iklim ve insan kullanımı etkileşiminin bütünsel ve hassas yöntemlerle belirlenerek koruma ve iyileştirme stratejilerinin geliştirilmesi TÜBİTAK 105Y332, 2005 - 2009

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, August 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2020

A Handbook of Natural Science Imaging and Photography, Scientific / Professional Book Published by Renowned Publishing Houses, July 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Orta Doğu Teknik Üniversitesi, Turkey, November 2018

TÜBİTAK - AB COST Project, COST, Turkey, January 2017

Project Supported by Public Organizations in Other Countries, Czech Science Foundation, Czech Republic, January 2017

Citations

Total Citations (WOS):529

h-index (WOS):10