

CURRICULUM VITAE



Surname, Name: **Yalçın, Gülce**

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EDUCATION

Degree	Institution	Year of Graduation
PhD	METU Biology	2024 January
MS	METU Marine Biology and Fisheries	2015 September
BS	METU Biology	2013 September

WORK EXPERIENCE

Year Place Enrollment

2020-today, EKOSAM-METU, Lecturer

2020-today, R3DOC Project (TÜBİTAK 1001, no:119Y265), Project Assist.

2018-2020, AQUACOSM Project (EU H2020, no:731065), Project Assist.

2017-2018, Danish Hydraulic Institute (DHI) Denmark and Poland, External Marine Mammal Specialist

2016-2017, Danish Hydraulic Institute (DHI) Turkey, Marine Biologist

2013-2015, Marine Biology and Fisheries Department- METU/IMS, Research Assist.

PUBLICATIONS

As First Author_ Published Papers in SCI Journals

1. Yalçın G., Yıldız, D., Calderó-Pascual, M., Yetim, S., Şahin, Y., Parakatselaki, ME., Avcı, F., Karakaya, N., Ladoukakis, EM., Berger, S.A., Ger, K.A., Jeppesen, E., Beklioğlu, M. Quality Matters: Response of Bacteria and Ciliates to Different Allochthonous Dissolved Organic Matter Sources as a Pulsed Disturbance in Shallow Lakes. *Science of Total Environment*, Volume 916 (2024)

<https://doi.org/10.1016/j.scitotenv.2024.170140>

2. Yıldız, D. and Yalçın, G. et al. (joint first authors) Effects of a Microplastic Mixture Differ Across Trophic Levels and Taxa in A Freshwater Food Web: In Situ Mesocosm Experiment, *Science of Total Environment*, Volume 836, (2022)155407, ISSN 0048-9697, <https://doi.org/10.1016/j.scitotenv.2022.155407>

As First Author_ Papers in Preparation

3. Yalçın, G., Yıldız, D., Dede, C., Jovanović, B., Ger, K.A., Jeppesen, E., Beklioğlu, M. Indirect effects of Microplastic Mixture on Ciliates in a Mesocosm Experiment Targeting Zooplankton Microplastic Ingestion

4. Yalçın, G., Yıldız, D., Yetim, S., Koursioti, S., Gürol, I.E., Uyar, Z.D., Ger, K.A., Jeppesen, E., Beklioğlu, M. Double-trouble? Higher Impacts of Terrestrial Dissolved Organic Carbon (tDOC) than of Warming on Bacteria and Ciliates

As Co-author_ Published Papers in SCI Journals

5. Calderó-Pascual, M., Yıldız, D., Yalçın, G. et al. The importance of allochthonous organic matter quality when investigating pulse disturbance events in freshwater lakes: a mesocosm experiment. *Hydrobiologia* (2021). <https://doi.org/10.1007/s10750-021-04757-w>

6. Stanković, J., Milošević, D., Savić-Zdraković, D., Yalçın, G., Yıldız, D., Beklioğlu, M., Jovanović, B. Exposure to a microplastic mixture is altering the life traits and is causing deformities in the non-biting midge *Chironomus riparius* Meigen (1804), *Environmental Pollution*, Volume 262 (2020) 114248, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2020.114248>.

As Co-author_ Submitted Papers in SCI Journals

7. Yıldız, D., Yalçın, G., Calderó-Pascual, M., Metin, M., Yetim, S., Kavak, P., Spoljar, M., Gottstein, S., McCarthy, V., Nesjtgaard, J., Jeppesen, E., Ger, K.A., Beklioğlu, M. The quality of allochthonous dissolved organic carbon source affects the fate of freshwater zooplankton: mesocosm approach to pulse disturbance.

8. Kemal Ali Ger, Sinem Yetim, Melisa Metin, Dilvin Yildiz, Gülce Yalçın, Maria Calderó-Pascual, Ewaldo Leitão, Claudia Fiorentin, Jens Nejtgaard, Erik Jeppesen, Meryem Beklioğlu. Consumer traits and allochthonous matter quality regulate trophic interactions in freshwater plankton.

9. Hasnain S.S., Ger, K.A., McCarthy, V., Uyar, Z.D., Amorim, C.A., Cabrera-Lamanna, L., **Yalçın, G.**, Yıldız, D. Meryem Beklioğlu. Trans-generational plasticity to warming alters nutrient release by a keystone species.

Theses

1. Yalçın G., Beyond The Surface: Unraveling The Impacts Of Microplastics, Dissolved Organic Carbon And Warming On Bacteria And Ciliates ([Published PhD Thesis](#)), Graduate School of Arts and Science, Middle East Technical University, (2024) January

2. **Saydam G.**, Cetacean Distribution in the Southern Black Sea: An Acoustic Approach ([Published Master Thesis](#)), Graduate School of Marine Sciences, Middle East Technical University, (2015) September

CONFERENCE TALKS

As Presenter

1. **Gülce Yalçın** , Dilvin Yıldız, Erik Jeppesen, Meryem Beklioğlu, Climate Change and Stability: Warming And Dissolved Organic Carbon (DOC) Disturbance On Bacteria And Ciliates, 3rd International Symposium on Aquatic Mesocosm Based Research, Antalya, **2023** November

2. **Gülce Yalçın**, Dilvin Yıldız, Sinem Yetim , Sevasti Kuorsioti , Sarah Hasnain , Erik Jeppesen , Meryem Beklioğlu, Double trouble: Warming and Dissolved Organic Carbon (DOC) disturbance on Microbial Loop, SIL 100, Berlin, **2022** August

3. **Gülce Yalçın**, Dilvin Yıldız, Melisa Metin, Sinem Yetim, Maria Caldero Pascual, Nusret Karakaya, Kemal Ali Ger, Erik Jeppesen, Meryem Beklioğlu, Impacts Of Different Quality Of Dissolved Organic Carbon (Doc) Pulse Disturbance On Microbial Loop: A Mesocosm Research, 2nd International Aquatic Mesocosm Research (Aquacosm) Symposium, On-line, **2021** April

4. **Gülce Yalçın**, Dilvin Yıldız, Melisa Metin, Sinem Yetim, Maria Caldero Pascual, Nusret Karakaya, Kemal Ali Ger, Erik Jeppesen, Meryem Beklioğlu, Response of microbial loop to different quality of dissolved organic carbon (DOC) pulse disturbance, 10th International Shallow Lakes Conference, On-line, **2021** March

5. **Gülce Yalçın**, Dilvin Yıldız, Boris Jovanovic, Derya Öztürk, Lucie Vebrová, David Boukal, Djuradj Milošević, Dimitrija Savić, Jelena Stanković, Jessica Richardson, Heidrun Feuchtmayr, Melisa Metin, Deniz Balkan, Yasmin Akyürek & Meryem Beklioğlu, In-situ Mesocosms Experiment for Investigating Impacts of Microplastics on Food Web of Shallow Lakes, ASLO, **2019** February, San Juan, Puerto Rico

6. Gülce Saydam, Ali Cemal Gücü, Cetacean Distribution in Southern Black Sea: An Acoustic Approach Using A Methodology Combining Active And Passive Acoustics, 29th Annual Conference Of European Cetacean Society, **2015** Malta

7. Gülce Saydam, Ali Cemal Gücü, Meltem Ok Serdar Sakınan., Ezgi Şahin, Özge Tutar, Population Viability Analysis Of Mediterranean Monk Seal (*Monachus Monachus*) And Significance Of Dispersal In Survival (Northeast Mediterranean Sea), 28th Annual Conference Of European Cetacean Society, **2014** Liège

As co-author

1. Ali Ger, Melisa Metin, Sinem Yetim, Dilvin Yıldız, **Gülce Yalçın**, Maria Caldero-Pascual, Erik Jeppesen, Meryem Beklioğlu. Consumer traits and allochthonous matter quart regulate consumption pathways in freshwater plankton ecosystems. 3rd International Symposium Aquatic Mesocosm based Research November, **2023**, Antalya, Türkiye (Oral presentation)

2. Dilvin Yıldız, **Gülce Yalçın**, Sinem Yetim, Sarah Hasnain, Erik Jeppesen, Kemal Ali Ger, Meryem Beklioğlu, Beyond Individual Effects: Investigating the Combined Consequences of Warming and DOC Influx on Zooplankton. 3rd International Symposium Aquatic Mesocosm based Research November, **2023**, Antalya, Türkiye (Oral presentation)

3. Dilvin Yıldız, **Gülce Yalçın**, Sarah Hasnain, Erik Jeppesen, Kemal Ali Ger, Meryem Beklioğlu. Investigation of the effects of climate change induced disturbances to zooplankton community stability with a multidimensional approach. ASLO **2023**, Palma de Mallorca (Oral presentation, abstract no. 4665)

4. İbrahim Kaan Özgencil, Deniz Mercan, Gencer Yaprak, Gülümser Genç, Dilan Melisa Özsoy, Alaz Uslu, Melisa Soylier, Mustafa Korkmaz, Berkay Gülen, Metehan Arıkan, Esra Mine Ünal, Emre Keskin, Sedef Alkan, Defne Budak, Şeyma Gül, Hilal Kiran, Feride Avcı, Nur Filiz, **Gülce Yalçın**, Meryem Beklioğlu. Factors driving the breeding microhabitat preferences of two endangered ducks in a shallow lake as revealed by a multidisciplinary approach. Ecology and Evolutionary Symposium, **2022**. (Oral presentation)

5. Sinem Yetim, Melisa Metin, Dilvin Yıldız, **Gülce Yalçın**, Maria Caldero Pascual, Claudia Fiorentin, Meryem Beklioğlu, Kemal Ali Ger. Effects of dissolved organic carbon and zooplankton grazing pressure on bacteria and ciliates. 2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium(online). April, **2021** (Poster presentation)

6. Melisa Metin, Sinem Yetim, Dilvin Yıldız, **Gülce Yalçın**, Maria Caldero Pascual, Claudia Fiorentin, Meryem Beklioğlu, Kemal Ali Ger. Combined bottom-up effects of DOC and top-down effects of zooplankton with contrasting traits on phytoplankton biomass and composition. 2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium (online). April, **2021** (Poster presentation)

7. Maria Caldero Pascual, Dilvin Yıldız, **Gülce Yalçın**, Melisa Metin, Sinem Yetim, Mikkel Rene Andersen, Kemal Ali Ger, Meryem Beklioğlu, Valerie McCarthy. Characterisation and impact of different allochthonous organic matter

additions in a mesocosm experiment investigating pulse disturbance events in Mediterranean shallow lakes. 2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium (online). April, **2021** (Oral presentation)

8. Melisa Metin, Sinem Yetim, Dilvin Yıldız, **Gülce Yalçın**, Maria Caldero Pascual, Claudia Fiorentin, Meryem Beklioğlu, Kemal Ali Ger. Combined bottom-up effects of DOC and top-down effects of zooplankton with contrasting traits on phytoplankton biomass and composition. 10th International Shallow Lakes Conference, March 1-5 **2021**, Natal, Brazil (online) (oral presentation, abstract book p. 170)

9. Sinem Yetim, Melisa Metin, Dilvin Yıldız, **Gülce Yalçın**, Maria Caldero Pascual, Claudia Fiorentin, Meryem Beklioğlu, Kemal Ali Ger. Effects of dissolved organic carbon and zooplankton grazing pressure on bacteria and ciliates. 10th International Shallow Lakes Conference, March 1-5 **2021**, Natal, Brazil (online) (Oral presentation, abstract book p. 169)

10. Dilvin Yıldız, Maria Caldero Pascual, **Gülce Yalçın**, Melisa Metin, Sinem Yetim, Nur Filiz, Pınar Kavak, Kemal Ali Ger, Valerie McCarthy, Erik Jeppesen, Meryem Beklioğlu. Effects of DOC quality on zooplankton community structure: a mesocosm experiment. 10th International Shallow Lakes Conference, March 1-5 **2021**, Natal, Brazil (online) (Oral presentation, abstract book p. 94)

11. Dilvin Yıldız, **Gülce Yalçın**, Meryem Beklioğlu. Mesocosm experiment on effects of microplastic on freshwater zooplankton community. Ekoloji ve Evrimsel Biyoloji Sempozyumu (EEBST) **2019**. 10.07.2019, Ankara, Türkiye.

12. Dilvin Yıldız, **Gülce Yalçın**, Boris Jovanović, Derya Öztürk, Lucie Vebrova, David Boukal, Djurdj Milosević, Dimitrija Savic, Jelena Stanković, Jessica Richardson, Heidrun Feuchtmayr, Meryem Beklioglu. First in-situ mesocosms experiment for investigating impacts of microplastics on littoral food web. 11. Avrupa Tatlı Su Bilimleri Sempozyumu (SEFS), 05.07.**2019**, Zagreb, Hırvatistan.

LANGUAGE SKILLS

Advanced English (2015 TOEFL score: 101/120, 2017 IELTS academic: score 7,5/9)

Beginner German

LABORATORY SKILLS

Water chemistry analyses, ciliate identification (FlowCAM and traditional microscopy), bacteria counting (DAPI), eDNA isolation

COMPUTER SKILLS

- Statistical analysis, modelling and data visualization: R (advanced), Matlab (intermediate) and Python (beginner)
- Mapping: ArcGIS and QGIS (intermediate)
- Scientific Illustration and Amateur Logo Design: Krita and Powerpoint (intermediate)
- Cetacean vocal analysis: CPOD software (C.POD.exe- advanced)
- Sound Propagation Modelling: MIKE Underwater Acoustic Simulator (UAS) (advanced)
- Fisheries Acoustic Analysis: Echoview software (SIMRAD EK60, Scientific echo sounder, SIMRAD EK System-advanced)

HONOUR AND AWARDS

- International stage (Turkey) of SIL Brian Moss Student Competition, 2023
- TÜBİTAK 2214-A Scholarship for PhytoChain Project (IGB-Germany)
- TÜBİTAK 2250- Performance Award 2021, 2022, 2023
- TÜBİTAK 1001- R3DOC Project PhD Scholarship (supplementary), 2020-2023
- EU AQUACOSM Project PhD Scholarship, 2018-2020
- TÜBİTAK Travel Grant 2014
- METU Student Performance Award (MSc)
- METU High Honor/Honor List 2010-2013 Years

SCIENTIFIC NETWORKS

- ASLO *Meetings* Subcommittee member
- SIL Student Member and Turkey Ambassador

MEETING ORGANISATIONS

- Organization of "Conference for the Celebration of the 25th year of Lakes Mogan and Eymir Ecological Monitoring and Restoration Program", 16th of November 2023, Ankara (120 participants)

TRAININGS AND WORKSHOPS

2022-Ankara Turkey, **Metagenomics workshop** by Zsuzsanna Márton and Attila Szabó from the Institute of Aquatic Sciences, Centre for Ecological Research (Hungary), 2 days

2019-Ankara Turkey, **Probabilistic and Statistical Modeling for Bioinformatics** by course offered by Informatics Institute of METU, 1 semester

2018-September, Izmir Turkey, **Aegean school for Computational Ecology and Evolution** by [Ecology and Evolutionary Biology Society](#), 7 days

2018-July, Izmir Turkey, **Ecological Statistical Analysis with R** by [Ecology and Evolutionary Biology Society](#), 2 days

2017, Mousehole UK, **C-POD Acoustic Workshop** by [Chelonia Limited](#), 2 days

2017, Exeter UK, **Marine Acoustics Training** by [Seiche](#), 4 days

2016, Hørsholm Denmark, MIKE 11-Ecolab **Ecological Modelling Training** by [Danish Hydraulic Institute \(DHI\)](#), 2 days

2014, Valencia Spain, Tenth European Seminar on Marine Mammals: **Biology and Conservation Workshop** by [European Cetacean Society](#), 5 days

EXTRACURRICULAR ACTIVITIES

Singing in the University Choir (Alto) and Anchorus Choir (Soprano)

Playing piano,

Painting (scientific and artistic),

Diving (PADI-Advanced open water).