

DILVIN YILDIZ

PHD CANDIDATE IN FRESHWATER ECOLOGY | M.Sc.IN ENVIRONMENTAL ENGINEERING



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Employment

RESEARCH PROJECT ASSISTANT (SCHOLARSHIP) AUG 2021- JUN 2023

MIDDLE EAST TECHNICAL UNIVERSITY, LIMNOLOGY LABORATORY, ANKARA/TURKEY

TUBITAK 1001 Project: Resistance, Resilience and Recovery of Lake Microbial and Plankton Community to Climate-Induced High Loads of Terrestrial Dissolved Organic Carbon (tDOC) : Mesocosm Study (Acronym: R3-DOC) , Project lead by Prof.Dr. Meryem Beklioğlu

Responsibilities:

- Data collection and doing required analyses (chemical, biological, statistical etc.) to test the related hypothesis
- To report the results
- Dissemination activities for outcome of the project

RESEARCH PROJECT ASSISTANT APR 2018- AUG 2021

MIDDLE EAST TECHNICAL UNIVERSITY, LIMNOLOGY LABORATORY, ANKARA/TURKEY

EU H2020-INFRAIA: AQUACOSM (Project No 731065): Network of Leading European AQUATIC MesoCOSM Facilities Connecting Mountains to Oceans from the Arctic to the Mediterranean, Manager: Prof.Dr. Meryem Beklioğlu

Responsibilities:

- Experimental planning, decision making
- Field survey, planning and performing
- Transnational access team organization (planning and organizing their scientific participation)
- Purchasing experimental needs (chemicals, laboratory and field equipment etc.)
- Experimental set-up (mesocosm system set-up)
- Conducting the experiments (sampling, monitoring etc.)
- Scientific meeting organization with collaborators
- Dissemination activities for the outcome of the project

PROJECT CONSULTANT - ENVIRONMENTAL ENGINEER JAN 2018- APR 2018

NARTUS ENERGY AND CONSULTANCY CO., ANKARA/TURKEY

Sector : Environmental and Energy Consulting

Job Description : Responsible for all period of Environmental reports such as; Environmental and Social Impact Assessment (ESIA), Environmental Management Plan (EMP), Due Diligence Report, Accommodation Plan, - for both Turkish Government, and financial corporations like IFC. In detail, the period includes; Preparation of the report.

Personal details

Date of birth

October 24th, 1980

Place of birth

Istanbul/Turkey

Driver's license

B class

Nationality

Turkish citizen

Civil status

Married

Profiles

[Google scholar profile](#)

[Research gate profile](#)

[Linkedin Profile](#)

Skills

Statistical analysis and Data visualization using R



AQUASIM modelling for Environmental Sciences



BIOWIN wastewater treatment system design program



Languages

ENGLISH



RUSSIA



PROJECT CONSULTANT -ENVIRONMENTAL ENGINEER AUG 2012- AUG 2014
EN-CEV ENERGY AND CONSULTANCY CO., ANKARA/TURKEY

Sector : Environmental and Energy Consulting

Job Description : Responsible for all period of Environmental reports such as; Environmental and Social Impact Assessment (ESIA), Environmental Management Plan (EMP), Due Diligence Report, Accommodation Plan, - for both Turkish Government, and financial corporations like IFC. In detail, the period includes; Preparation of the report, - Establish and maintain environmental stakeholder relationship, Carry on ongoing negotiations with clients, contractors, other consultants providing project management expertise and authorized people working for institutions. To receive a price quote from other consultant companies on demanded subjects, review and evaluate them during preparation of the report.

Meeting organization

Nov. 07-10th 2023

Session Chair of the 5th session and member of local organizing committee of 3rd International Symposium Aquatic Mesocosm based Research 07-10 November, 2023, Antalya, Turkey

Hobbies

- Yoga sharer
- Free abstract drawing/painting
- Metaphysics
- Psychology

Scientific Publications

PAPERS

1. Dilvin Yıldız, Gülce Yalçın, Maria Calderó Pascual, Melisa Metin, Sinem Yetim, Pinar Kavak, Nur Filiz, Maria Spoljar, Sanja Gottstein, Valerie McCarthy, Jens Nesjtgaard, Erik Jeppesen, Kemal Ali Ger, Meryem Beklioğlu (2022). The quality of allochthonous dissolved organic carbon source affects the fate of freshwater zooplankton: mesocosm approach to pulse disturbance. Submitted to Limnology and Oceanography.
2. Gülce Yalçın, Dilvin Yıldız, Maria Calderó Pascual, Melisa Metin, Sinem Yetim, Yiğit Şahin, Maria-Eleni Parakatselaki, Nur Filiz, Nusret Karakaya, Emmanuel D. Ladoukakis, Valerie McCarthy, Stella A. Berger, Kemal Ali Ger , Erik Jeppesen, Meryem Beklioğlu (2022). Quality matters: Response of microbial loop to different dissolved organic carbon (DOC) sources as a climate-induced pulsed disturbance. *Science of the Total Environment*, 916, 170140. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2024.170140>
3. Dilvin Yıldız*, Gülce Yalçın*, Boris Jovanović, David S. Boukal, Lucie Vebrová, Derya Riha, Jelena Stanković, Dimitrija Savić-Zdraković, Melisa Metin, Yasmin Naz Akyürek, Deniz Balkanlı, Nur Filiz, Djuradj Milošević, Heidrun Feuchtmayr, Jessica A. Richardson, Meryem Beklioğlu (2022). Effects of a microplastic mixture differ across trophic levels and taxa in a freshwater food web: in situ mesocosm experiment. *Science of the Total Environment*, 155407. <https://doi.org/10.1016/j.scitotenv.2022.155407>
4. Calderó-Pascual, M., Yıldız, D., Yalçın, G., Metin, M., Yetim, S., Fiorentin, C., ... McCarthy, V. (2021). The importance of allochthonous organic matter quality when investigating pulse disturbance events in freshwater lakes: a mesocosm

experiment. *Hydrobiologia*, 0123456789. <https://doi.org/10.1007/s10750-021-04757-w>

5. Jelena Stanković, Djuradj Milošević, Dimitrija Savić-Zdraković, Gülce Yalçın, Dilvin Yıldız, Meryem Beklioğlu, Boris Jovanović, 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>.

CONFERENCES

6. Dilvin Yıldız, Gülce Yalçın, Sinem Yetim, Sarah Hasnain, Erik Jeppesen, Kemal Ali Ger, Meryem Beklioğlu. Beyond individual effect: Investigating the combined consequences of warming and DOC influx on zooplankton. 3rd International Aquatic Mesocosm Research (AQUACOSM) Symposium. 07-10 November, **2023**, Antalya, Türkiye (Oral presentation)
7. 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 07-10 November, **2023**, Antalya, Türkiye (Oral presentation)
8. Gülce Yalçın , Dilvin Yıldız , Sinem Yetim, Sevasti Koursioti, Erik Jeppesen , Meryem Beklioğlu. Climate Change and Stability: Warming And Dissolved Organic Carbon (DOC) Disturbance On Bacteria And Ciliates. 3rd International Symposium Aquatic Mesocosm based Research 07-10 November, **2023**, Antalya, Türkiye (Oral presentation)
9. 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**.
10. 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, **2022**.
11. 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. 2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium. APRIL, **2021**.
12. 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. APRIL, **2021**.
13. 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. APRIL, 2021.
14. 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. 2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium. APRIL, **2021**.

15. 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. APRIL, **2021**.
16. 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, Brazil, MARCH, **2021**.
17. 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, Brazil, MARCH, **2021**.
18. 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, Brazil, MARCH, **2021**.
19. 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, Brazil, MARCH, **2021**.
20. 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. 10th International Shallow Lakes Conference, Brazil, MARCH, **2021**.
21. Dilvin Yıldız, Gülce Yalçın, Meryem Beklioğlu. Mesocosm experiment on effects of microplastic on freshwater zooplankton community. Ecology and Evolutionary Biology Symposium 2019. JULY, 2019, Ankara, Türkiye.
22. Dilvin Yıldız, Gülce Yalçın, Boris Jovanovic, Derya Öztürk, Lucie Vebrova, David Boukal, Djurdj Milošević, Dimitrija Savić, Jelena Stanković, Jessica Richardson, Heidrun Feuchtmayr, Meryem BEKLIOĞLU. First in-situ mesocosms experiment for investigating impacts of microplastics on the littoral food web. 11th Symposium for European Freshwater Sciences (SEFS), JULY, **2019**, Zagreb Hırvatistan.
23. Jelena Stanković, Boris Jovanović, Dimitrija Savić Zdravković, Djurdj Milošević, Meryem Beklioğlu, Dilvin Yıldız, Gülce Yalçın, Influence of mixture of microplastic particles (MP) on non-biting midges of Chironomus riparius in a laboratory setup, 11th Symposium for European Freshwater Sciences, Zagreb, Croatia, **2019** May
24. Gülce Yalçın, Dilvin Yıldız, Boris Jovanovic, Derya Öztürk, Lucie Vebrová, David Boukal, Djurdj 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 Planet Water – Challenges and Successes, MARCH, **2019**, San Juan, Puerto Rico.
25. Gülce Yalçın, Dilvin Yıldız, Boris Jovanovic, Derya Öztürk, Lucie Vebrová, David Boukal, Djurdj 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

26. Heidrun Feuchtmayr, Jessica Richardson, David Boukal, Meryem Beklioglu, Gülce Saydam, [Dilvin Yıldız](#), Boris Jovanovic, Derya Öztürk, Lucka Veb, Ami Weir, Uptake and transfer of microplastics in freshwater organisms: a mesocosm experiment, Plastics in the environment workshop, Wallingford, UK, **2019** February
27. B.Jovanovich, J.Stankovic, D.Milosevic, D.Savic, A.Savic, G.Yalcin, [D.Yildiz](#), D.Öztürk, L.Vebrova, D.Boukal, M.Beklioglu. "Comparative Indoor Outdoor Study Microplastic Effects on Non-Biting Midges (Diptera: Chironomidae) (Poster Presentation at ASLO meeting, **2018**, Puerto Rico)

Education

EARTH SYSTEM SCIENCE, PhD.	2019- Present
MIDDLE EAST TECHNICAL UNIVERSITY, ANKARA/TURKEY	
Minor: Climate Change, Limnology, Plankton ecology	
Thesis Title: Effects of Anthropogenic Global Change on Freshwater Lake Zooplankton Community Structure and Diversity: a Mesocosm Approach	
ENVIRONMENTAL ENGINEERING, M.Sc.	2010- 2012
İSTANBUL TECHNICAL UNIVERSITY, İSTANBUL/TURKEY	
Minor: Environmental Biotechnology	
Thesis Title: Model based evaluation of biogas production potential of full scale wastewater treatment plants which is operated under low SRT	
GEOLOGY ENGINEERING, B.Sc.	2000- 2004
İSTANBUL TECHNICAL UNIVERSITY, İSTANBUL/TURKEY	
Thesis Title: Determination of Petrographic Structure of Basalts in Thrace Basin	

Courses

Meta-Analysis Workshop	2021
The workshop organization by AQUACOSM plus : An overview on quantitative synthesis methods including systematic reviews and meta-analyses, and to develop a theme for a joint analysis of experiments run in the consortium.	
Video Filming for Science Communication Workshop	2020
The workshop organization by AQUACOSM plus	
R Workshop	2018
In the workshop given by Ecology and Evolutionary Society of Turkey: Data analysis and community biology methods in R were covered. 2 days	

Certificates

ISO 14001 Environmental Management Systems Certificate	2012
Environmental Specialist Certificate	2012
Ministry of Environment and Urbanization	

Work Health and Safety Specialist Certificate 2012
Ministry of Labour and Social Security

Project Cycling Management (PCM) Certificate 2012
AB-ilan

References

Academic

Prof.Dr. Meryem BEKLİOĞLU meryem@metu.edu.tr
Middle East Technical University, Biological Sciences Department and EKOSAM
Ankara/Turkey
PhD thesis advisor, AQUACOSM local project leader, TUBITAK project leader

Prof.Dr. K. Ali Ger aligerger@gmail.com
Federal University of Rio Grande do Norte, Natal/ Brazil
PhD thesis co-advisor

Prof. Dr. H.Guclu INSEL inselhay@itu.edu.tr
İstanbul Technical University, Environmental Engineering Department, İstanbul/Turkey
M.Sc. thesis advisor

Professional

Özer Emrah Öztürk ozemoz@icloud.com
ENCEV Enerji ve Danışmanlık
Coordinator