



**TAGEM**  
R&D AND INNOVATION

MEDITERRANEAN FISHERIES RESEARCH  
PRODUCTION AND TRAINING INSTITUTE/  
ANTALYA

## Merve KARAKUŞ, Ph.D

### Fisheries Technology Engineer

#### EDUCATION

- PhD**  
2013-2023  
Dokuz Eylul University  
Institute of Marine Scie. Tech.  
Marine Living Resources
- MSc**  
2010-2012  
Karadeniz Technical University  
Institute off Science  
Fisheries Technology Engineer
- Bachelor's Degree**  
2006-2010  
Karadeniz Technical University  
Surmene Faculty of Marine Sciences  
Fisheries Technology Engineer

**LANGUAGE** English UDS 67,5

#### CAREER

- 2012- ..... Engineer, Researcher. Akdeniz Fisheries Research,  
Production and Training Institute - ANTALYA

#### ABOUT ME

She was born in 1986 in Zonguldak. In 2004, she graduated from Zonguldak Anatolian Teacher High School. In 2010, she graduated from Karadeniz Technical University Surmene Faculty of Marine Sciences as a Fisheries Technology Engineer. In 2012, she completed her master's degree in the same department. In 2023, she completed her doctoral studies in the Department of Marine Sciences and Technology, specializing in Living Marine Resources, at Dokuz Eylül University. Her areas of specialization are deep sea fishes, climate change and its effects on fisheries, invasive alien species, marine protected areas, fisheries biology.

#### CONTACT



Demre Kampüsü Finike karayolu 6.  
Km Demre /Antalya  
07570 TÜRKİYE



[merve.karakus@tarimorman.gov.tr](mailto:merve.karakus@tarimorman.gov.tr)



0242 872 14 00



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#### ■ **PROJECTS**

##### ■ **Projects Conducted**

- 1. Project on Determining the Distribution Areas of Balloon Fish and Lionfish in the Coasts of Our Country and Investigation of Possible Control Methods- (TAGEM/ 2018-2021) (Project Leader).
- 2. Stock Assessment Practices in Fishing Activities Project (IFish)- EU Project 2019-2021) (Researcher).
- 3. Tübitak 4004 - There is Life in Water Project (2020-Trainer).
- 4. Let's Meet in Blue Project-(Antalya Provincial Directorate of Ministry of Agriculture and Forestry, Corendon Airlines, BETUYAB, TURÇEV (2019- 2020)(Trainer).
- 5. Blue Hope in the Mediterranean initiative -FAO/TCP (2018-2020) (Researcher).
- 6. Determination of Phytoplankton Diversity and Distribution in the Gulf of Antalya, Effect of Physico-chemical Parameters on Succession (TAGEM/2017-2020).
- 7. Development of an Ecosystem Approach Fisheries Plan for Small Scale Fisheries in Gökova Bay Project FAO/Eastmed.( 2018 - Researcher).
- 8. Estimation of the Size of Demersal Fish Stocks in the Mediterranean Coast of Turkey (TAGEM/2015- 2019) (Researcher).
- 9. Estimation of Biological Characteristics and Stock Sizes of Commercial Shrimp Species in the Gulf of Antalya (TAGEM/2015-2017) (Researcher).
- 10. My Lagoon. TR61/16/CEVRE/0019 BAKA (Western Mediterranean Development Agency)-BAKA (2016) (Researcher).
- 11. Determination of the Ecological Status of the Western Mediterranean Coasts of Turkey with Carlit (Cartography Of Littoral) (TAGEM/2015-2017) (Researcher).
- 12. Determination of the Food Web Structure of Beymelek Lagoon by Stationary Carbon and Nitrogen Isotope Method (TAGEM/2013-2014) (Researcher).
- 13. A study on comparing the productivity of some lakes in the Eastern Black Sea Region by Morphoedaptic index (MEI) method (Karadeniz Technical University /BAP) (2011-2012) (Researcher).
- 14. Investigation of the Effects of Management Strategies Implemented in Anchovy and horse mackerel Fisheries in the Black Sea on Stock Structure and Fisheries Economy (TUBITAK / Project no: 110O808) (2011-2012) (Researcher).

##### ■ **Ongoing Projects**

- 1. Impact of climate change on fisheries stocks and determination of the distribution areas of invasive species in our seas (Guided -TAGEM/2022-2026)- (Project leader).
- COST/CA19107- Unifying approaches to marine connectivity for improved resource management for the seas (SEA-UNICORN)- (2020-2024). (Action Management Committee).
- 3. Monitoring Demersal Fisheries Resources along the Mediterranean Coast of Turkey. (TAGEM/2020-2024) (Researcher).
- 4. COST /CA18102 -European Aquatic Animal Monitoring Network. (2019-2023) (Working Committee member).
- 5. National Aquaculture Genetic Database - (TAGEM/2019-2027) (Researcher).
- 6. Stock Assessment in Fisheries Applications: Beymelek Lagoon Model. (TAGEM/2018-2023) (Researcher).



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#### ■ **PUBLICATIONS**

##### ■ **INTERNATIONAL ARTICLES AND PAPERS**

###### ■ **Articles Published in International Journals**

- Agidai, K., Bryony, C., Rita, A., Bechecker, A., Blanco, A., Brito, C., Cook, E.M., Constantini, F., **Karakuş M.**, vd. (2023). Changes in marine functional connectivity through the ages: a geological and historical perspective. *ICES Journal of Marine Science*.
- Köşker, A.R., **Karakuş, M.**, Katikou, P., Dal, İ., Durmuş, M., Uçar, Y., Ayaş, D., Özoğul, F. (2023). Monthly variation of Tetrodotoxin levels in pufferfish (*Lagocephalus sceleratus*) caught from Antalya Bay, Mediterranean Sea. *Marine Drug*. 21/527.
- **Karakuş, M.**, Tıraşın, E. M. (2023). Relationships Between Otolith Biometrics and Pre-anal Length of *Coelorinchus caelorhincus* (Pisces: Macrouridae) Species Caught in the Antalya Bay. *Acta Aquatica Turcica*. 19/4,358-367.
- **Karakuş M.**, Dal I. , Aydın C.M., (2022). The First Record of Age Findings of *Sphoeroides pachygaster* (Muller and Troschel, 848) in Eastern Mediterranean Sea. 2. *Pufferfish and lionfish symposium Bodrum/2022*. (Oral Presentation).
- **Karakuş M.**, Aydın C.M., Tirasin E.M. ,(2021). Age and growth of the devil lionfish, *Pterois miles* (Bennet, 1828), in Kaş-Kekova MPA (Eastern Mediterranean). *6th International Marine Connectivity Conference.Paris /2021*. (Poster presentation).
- **Karakuş M.**, Tirasin E.M., (2021). Age and growth of the hollowsnout grenadier, *Coelorinchus caelorhincus* (Risso, 1810), in Antalya Bay (Eastern Mediterranean). *FABA 2021 /Ege University* (Oral presentation)
- Ozturk S., **Karakuş M.**, Dal I., Sarigoz S., Yesiltas M., Bugdayci Kanli M., Tirasin E.M., Unluoglu A. (2017). State of Bottom Marine Litter Antalya Bay. *XIII. Congress of Ecology and Environment With International Participation, UKECEK-2017* (Oral presentation).
- **Karakuş M.**, Dal I., Aydın C.M., Uysal G., Yesiltas M., Ozturk S., Sarigoz S., Unluoglu A., Tirasin E. M., Akalin S., Tan D., Emre Y. (2016). Marine Litter in Eastern Mediterranean. *FABA 2016 /Antalya* (Poster presentation).
- Aydın C.M., Tirasin E.M., Unluoglu A., Dal I., Yesiltas M., Akalin M., Erkan S., **Karakuş M.**, Uysal G., Ozturk S., Toslak C., Emre Y. (2016). Fishery Resources of the Mediterranean Coast of Turkey Based on Bottom Trawl Surveys *FABA, 2016 Antalya*. (Poster presentation)
- **Karakuş M.**, Seyhan K., Ozseker K.,(2014). The Comparison Of The Productivity Of Some Lakes In The Eastern Black Sea Region Using By Method Morphoedaphic Index, *FABA,25-27 Eylül 2014 Trabzon*. (Poster presentation).

##### ■ **NATIONAL ARTICLES AND PAPERS**

###### ■ **Articles Published in National Journals**

- **Karakuş M.**, Aydın C.M., (2022). Some Findings on the Diversity and Biomass of Alien/Invasive Alien Species on the Mediterranean Coast of Turkey. 1st National Science Symposium "The Threat of Invasive Alien Species: From Theory to Practice"- Izmir,2022 (Oral presentation).
- **Karakuş M.**, Aydın C.M., (2022). Length-Weight Relationship and Condition Factor of Lionfish (*Pterois miles*, (Bennett, 1828) in Kaş-Kekova IBA (Western Mediterranean). 5th National Marine Science Conference (Oral Presentation).
- Aydın C.M., **Karakuş M.**, (2022). Comparison of Exploitation Rates of Red Giant Shrimp (*Aristaeomorpha foliacea*, (Risso, 1827)) in the Mediterranean Coast of Turkey (GSA 24). 5th National Marine Science Conference (Oral Presentation).



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- Aydın C.M., Tıraşın E.M., Dal İ., Ünlüoğlu A., **Karakus M.**, (2018). Length-Weight Relationships of *Plesionika edwardsii* (Brandt, 1851) and *Plesionika martia* (Pandalidae: Malacostraca, A. Milne-Edwards, 1883) in the Gulf of Antalya - 3rd Marine Science Conference-Izmir.(Oral Presentation).
- İlhan, S., Seyhan, K., Kızılgök, A. B., **Karakus, M.**, (2015). Investigation of Anchovy (*Engraulis encrasicolus* L., 1758) Population in the Eastern Black Sea in terms of Fisheries Biology in 2009-2010 Fishing Season. 18th National Aquaculture Symposium, September 1-4, 2015/Izmir, pg. 324. (Poster).

#### ▪ **OTHER PUBLICATIONS**

##### **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

1. Investigation of Some Biological Characteristics of the Hollowsnout grenadier *Coelorhynchus caelorhynchus* (Risso, 1810) and the Greeneye Fish *Chlorophthalmus agassizi* Bonaparte, 1840 in the Antalya Bay. Ph.D Thesis, 2023.
2. Manual on the Management of Invasive Alien Species in the Eastern Mediterranean. IUCN. Book chapter. (2022).
3. BAYOMA Project Final Report-(2021).
4. A Study on the Comparison of the Productivity of Some Lakes in the Eastern Black Sea Region with the Morpho-Edaphic Index Method. Master Thesis (2012).

##### ▪ **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**

1. The Workshop on Age Determination Methods in Sea Snails and Mussels.20/06/2023-Demre
- 2.International Symposium –Human Impacts on Marine Functional Connectivity. Sesimbra/Portugal (23-26 Mayıs 2023)
3. DMAD-Mediterranean Flag Species, In the Footsteps of the Guardians of Deep Seas, 4/04/2023 Kaş.
4. I. National Science Symposium "The Threat of Invasive Alien Species: From Theory to Practice"- Izmir,2022 (Oral presentation).
5. Meeting for the Introduction of Invasive Alien Species Biosafety Guidelines for Marine Aquaculture and Marine Transportation Sectors (Marias Project), July,2022.
6. Workshop on Preparing a Medium/Long Term Management Plan for Silvery Pool Fish (*Carassius gibelio*) Species (TERİAS project) July, 2022.
7. Age Reading in Fish Workshop, Antalya, 2022 -(Organization).
8. 2nd International Pufferfish and Lionfish Symposium -Online, 2022-(Oral Presentation).
9. 6th International Conference on Marine Connectivity- Paris, 2021- (Poster presentation).
10. Assessment of Threats of Invasive Alien Species in Important Marine Biodiversity Areas Project-UNDP, Antalya, 2021-(Speaker).
- 11.Gastrofish Project, Greece, 2021.
12. European Aquatic Animal Monitoring Network- Izmir, 2021 - (Speaker).
13. FAO- Small Scale Fisheries University Day, Demre, 2020- (Facilitator/ moderator).
14. Lionfish Knowledge Exchange Workshop - Online, November 2020 - (Speaker).
15. Assessment of Threats of Invasive Alien Species in Important Marine Biodiversity Areas Project-UNDP/Opening Workshop/Ankara, 2018.
16. Artificial Reef Workshop- Antalya, 2018.



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17. 1st Bivalve Workshop. Antalya, 2018.
18. Blue Hope Initiative in the Mediterranean Sea TCP/ Blue Growth Initiative Technical Cooperation Program/FAO/Tunisia, 2018.
- 19.TAIEX Workshop on Improvement and Legal Harmonization of Fisheries Resources Management /İzmir, 2017.
20. 1st International Pufferfish Workshop. Bodrum, 2017.
- 21.FABA, International Fisheries and Aquatic Sciences Symposium /Antalya, 2016.
22. National Workshop on Ensuring Standardization in Marine Monitoring. Ankara,2016.
- 23.II. Fisheries Workshop /Bandırma, 2016.

#### ■ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

1. Invasive Fish Species: Sample of Pufferfish and Lionfish / Kaş Setur, 2023.
2. Invasive Fish Species : Antalya,2023.
3. New Fishes Seminar-Mediterranean Conservation Society, August-2022,Bodrum.
4. New Fish Seminar-Mediterranean Conservation Society, June-2022, Datça. 5.
5. New Fishes Seminar-Mediterranean Conservation Society April-2022, Göcek.
6. Invasive Species Training for Sustainable Fisheries-WWF December 2021,Kaş.
7. Puffer fish tail identification training - DGSA - December 2020.
8. Fisheries Information Meeting- SSI, September-2020, Kekova.
9. Invasive species training-Coast Guard Command-2019,TURCEV.
10. Fisheries Information Meetings-Antalya region, Iskenderun DTO,2019
11. Important Economic Species Caught in Trawl Fisheries in the Mediterranean Sea, Leseptian Species and Their Effects on the Ecosystem (Hiebis Training) 2018.
12. Bayoma Project 1st Training Workshop-2018.

#### ■ National and International Trainings/Courses Received

1. Fundamentals of Biological Imaging Training Course. COST-SeaUnicorn, Montpellier,06-09/09/2022
- 2.Webinar on Monitoring Based on Local Ecological Knowledge-Fao-Eastmed, 10/06/2020.
- 3.Fisheries Management Training (Socio-economic impacts). 13-14/01/2020, EU-IFish Project, Ankara.
- 4.Fisheries Management with Ecosystem Approach. 15-16/01/2020 EU-IFish Project,Ankara.
- 5.Assessment of Fisheries Resources. 18-19/11/2019 EU-IFish ProjectTrabzon.
- 6.Fish Stock Dynamics. 20-22/11/2019 EU-IFish Project,Trabzon.
- 7.AUV Training. 27-29/10/2019 EU-IFish Project,Trabzon.
8. Training. 10-11/10/2019/Antalya-Akdeniz Research Vessel.
- 9.Stock Assessment Summer School, Module 2. 15-19 July 2019, FAO/GFCM/JRC Italy.
- 10.Stock Assessment Summer School, Module 1. 9-13 July 2018, FAO/GFCM/JRC Italy.
11. 1\* and 2\* 3\* Diver Badge Cmas&Padi 2008-2020, TSSF-Trabzon, Antalya.
- 12.Increasing and Managing Marine Stocks. 01/07-12/10/2011 JICA/Japan.
- 13.1Project Cycle Management EU Project/Trabzon 2010.
14. Basic Russian TTSO/Trabzon 2010.