

Evangelos Tzanatos – Curriculum Vitae

Personal data

Date of birth: 30-05-1976
Current position: Assistant Professor: *Marine Ecology – Fisheries Management*.
Department of Biology, University of Patras, Greece
Work address: Laboratory of Zoology, Department of Biology, University of
Patras, GR 26504, Rio, Patras, Greece
Telephone: +30 2610 969225
e-mail: tzanatos@upatras.gr

Profile

In my PhD I studied the structure, typology and management of small-scale fisheries in Greece. My research interests span fish ecology, marine ecosystem functioning and management, fisheries methodology, fisheries management and anthropogenic impacts on marine ecosystems. In the last years, the focus of my research has been the development of methodologies for the Ecosystem Approach to Fisheries. Specific topics of my recent research include mixed fisheries, functional ecology of fish, anthropogenic modifications of the coastal zone, climate change impact.

Summary

Current position: Assistant Professor (Marine Ecology – Fisheries Management),
Department of Biology University of Patras

Academic titles: BSc (1999), MSc (2002), PhD (2006)

Professional experience: 2004-2006, 2007-to date

Past affiliations: Hellenic Centre for Marine Research, University of Patras,
Technological Educational Institute of Messologgi

Number of international/national research projects involved: 10/11

Total budget of projects attracted as principal investigator: 71,927 €

Peer-reviewed articles in Science Citation Index journals: 32

Announcements in conferences and symposia (international/national): 15/23

h-index (Web of Science –WoS): 16

Citations in WoS / Scopus / Google Scholar: 906 / 975 /1,493

WoS Researcher ID: [A-7693-2013](https://orcid.org/0000-0001-9972-9632) *ORCID:* orcid.org/0000-0001-9972-9632

1. Education and training

- 2/2010: Training school: Stock Assessment (Advanced) (International Council for the Exploration of the Sea, ICES, Copenhagen, Denmark)
- 10/2006: PhD in Biology (Department of Biology, University of Patras, Patras, Greece).
Thesis title: Structure, characteristics and management of small-scale fisheries in Greece
- 2/2002: MSc in Environmental Biology and Management of Terrestrial and Aquatic Ecosystems (Department of Biology, University of Patras, Patras, Greece).
Dissertation title: Comparative study of the usage of the plankton nets Bongo and WP2 in fish stock assessment
- 9/1999: BSc in Biology (Department of Biology, University of Patras, Patras, Greece)

2. Languages

Greek (native speaker), English (excellent), French (good), Spanish (poor), Italian (poor)

3. Employment

- 10/2018-to date: Assistant Professor (tenured in 8/2022). Department of Biology, University of Patras (Patras, Greece)
- 1/2011-10/2018: Lecturer. Department of Biology, University of Patras (Patras, Greece)
- 10/2007-8/2010: Post-doc research associate. Institute of Marine Biological Resources, Hellenic Centre for Marine Research (Heraklio, Greece).
- 6/2007-9/2007: Post-doc research associate. Department of Biology, University of Patras (Patras, Greece).
- 1/2005-6/2006: External collaborator for fisheries data collection. Institute of Marine Biological Resources, Hellenic Centre for Marine Research (Heraklio, Greece).
- 9/2004-6/2006: Laboratory collaborator (lectures and laboratory courses). Department of Aquaculture and Fisheries, Technological Educational Institute of Mesologgi (Mesologgi, Greece).

4. Research experience

A. Project coordination as the principal investigator

- 2022: PROTEAS: Exploration of the “twilight zone” of the Ionian Sea.
Funding: Hellenic Centre for Marine Research-RePHIL project,
Budget: 9,947 €

- 2016-2019: BATFISH: Biological traits analysis of fisheries resources: From populations to the Ecosystem Approach to Fisheries Management. Funding: Karatheodoris Institution (Academic Institution-Patras, Greece), Budget: 30,000 €
- 2014: Fisheries study in the wider area of the island Gyaros. Funding: WWF-Hellas (part of the LIFE+ project CYCLADES LIFE), Budget: 31,980 €

B. Project leader for the University of Patras

- 2024-2025: TWINKLE: Life in the TWilight: New Knowledge on the bioLogy and Ecology of the mesopelagic zone in the context of global change. Funding: Hellenic Foundation for Research and Innovation, Budget: 399,400 € (budget for the University of Patras: 122,510 €)
- 2020-2023: LIONHARE: Development of novel means for the monitoring, mapping and population control of the invading species silver-cheeked toadfish (*Lagocephalus sceleratus*) and lionfish (*Pterois* sp.) in the Hellenic seas. Funding: Ministry of Rural Development and Foods, Budget: 417,597 € (budget for the University of Patras: 63,990 €)

C. Project professional participation as a member of the scientific team

- 2022-2023: Biodiversity in the Open Ocean: Mapping, Monitoring and Modelling (*participation as an Early adopter*). Funding: European Space Agency
- 2016: Identification, Consequences and Management of the anoxic zone of Amvrakikos Gulf (NW Greece). Funding: EEA grants
- 2013: Monitoring of habitat types and fauna and flora species of the Directives 92/43 and 79/409. Funding: Management Body of Messologgi (Greece)
- 2012: Technical and support interventions for the reconstitution of the European eel stock in areas of enterprise activities. Funding: Public Electricity Company (Greece)
- 2009-2010: Judgement and Knowledge in Fisheries Including Stakeholders (JAKFISH). Funding: EU project
- 2008: Scenaria of exploitation of demersal stocks by trawlers in areas with a narrow continental shelf: The case of the southern Aegean Sea. Funding: Ministry of Rural Development and Foods (Greece)
- 2008: National Fisheries Data Collection Program. Funding: EU & National Project
- 2007-2008: Operational Evaluation Tools for Fisheries Management Options (EFIMAS). Funding: EU project

2007: Fisheries in the Cyclades in the framework of the Green Paper for European fisheries. Funding: Region of South Aegean (Greek Regional project)

D. Project participation as a postgraduate student

2005-2006: Small scale coastal fisheries in Europe. A comparative approach. Funding: EU project

2003-2005: Encourager la pêche responsable dans l'ensemble du bassin Méditerranéen pour limiter les menaces du changement climatique – H2O. INTERREG IIIB –MEDOCC. Funding: EU project

2003-2005: ANREC - Association of Physical and Biological processes acting on Recruitment and post-recruitment of anchovy. Funding: EU project

2002-2003: Development of a typology of Greek professional small-scale coastal fishermen based on fisheries, economic and social elements Funding: Ministry of Agriculture (Greece)

2001-2002: The swordfish fishery in the Mediterranean. Funding: EU project

2000-2001: Project for the application of a monitoring system of eel stocks (for all stages of production) in Greece. Funding: Ministry of Agriculture (Greece)

2000-2001: Comparative study of the Patraikos and Korinthiakos Gulf. Funding: Karatheodoris Institution (Academic Institution-Patras, Greece)

1999-2001: Evaluation of the Southern Greek Sardine Stock (Contract No 98/039). Funding: EU project

5. Research interests

- Fish and fisheries ecology
- Functioning and management of marine ecosystems
- Fisheries science and fisheries management
- Anthropogenic impacts on marine ecosystems

6. Teaching

A. Department of Biology, University of Patras

BSc Biology

Lectures and laboratory courses in: (1) Population Ecology (2011-to date), (2) Animal Biology I (2013-2022), (3) Animal Biology II (2014-to date), (4) Marine Ecology (2011-to date), (5) Ichthyology (2011-to date)

Lectures in: (6) The Science of Biology (2017-2021)

Laboratory courses in: (7) Computer Applications in Biology (2012-2014)

BSc Geology

Lectures in (8) Elements of Zoology and Botany (2017-2023)

MSc Applied Ecology-Environmental Management

Lectures in: (1) Sampling Design, Analysis of Environmental Data and Ecological Models (2012-to date), (2) Fish Stocks Dynamics & Management of Marine Living Resources (2012-to date)

MSc Oceanography: Exploration, mapping and management of the marine environment

Lectures in: (1) Computational Analysis of Oceanographic Data (2020-to date), (2) Structure and Functioning of Marine Ecosystems (2020-to date), (3) Fisheries Oceanography (2022-to date)

Student supervision and participation in student PhD examination committees

Supervision of completed PhDs: 1 (Martha Koutsidi)

PhD students currently supervised: 2 (Alexios-Petros Lazaris, Eleni Tsimara)

Participation in examining committees of PhDs: 6

MSc students (completed MSc): 12

BSc students with completed dissertations/currently supervised: 19/2

B. Department of Biology, University of Crete

BSc Biology

Lectures in Fisheries Biology (2011-2014)

MSc Environmental Biology:

Lectures in Fish Stock Dynamics & Management (2007-2014)

C. Department of Aquaculture and Fisheries, Technological Educational Institution of Messologgi

Undergraduate courses

Lectures and laboratory courses in: (1) Fisheries Technology and Fishing Vessels (2004-2006), (2) Elements of the Biology of Marine Organisms (2004-2006), (3) Freshwater Aquaculture (2004-2005)

7. Other professional activities

A. Research cruises

2000-to date: Participation in nine research cruises (oceanography and/or fisheries, more than 100 days at sea). Work includes sampling for mesozooplankton, fish eggs and larvae, pelagic and benthic trawl sampling, taxon identification, sorting, fish length, weight and reproductive maturity measurements from experimental trawl fishing, habitat mapping.

B. Other fieldwork and sampling

- On-board sampling from commercial fishing vessels (trawl, purse seine, drifting longlines, small-scale fisheries, more than 180 days at sea) for catch biomass, length composition, discards
- Sampling from fish-wharfs and ports for landings biomass, length and weight frequencies

- Underwater visual census for the estimation of fish community composition and population density

C. Reviewing

Reviewer (>100 reviews in total) for the Journals: [Fish and Fisheries](#), [Global Change Biology](#), [Ecological Applications](#), [Marine Ecology Progress Series](#), [ICES Journal of Marine Science](#), [Fisheries Research](#), [Fisheries Oceanography](#), [Canadian Journal of Fisheries and Aquatic Sciences](#), [Ecological Indicators](#), [Estuarine Coastal and Shelf Science](#), [Reviews in Fish Biology and Fisheries](#), [Hydrobiologia](#), [Regional Environmental Change](#), [Journal of Marine Systems](#), [Fisheries Management and Ecology](#), [Ocean and Coastal Management](#), [Marine Biology Research](#), [Remote Sensing](#), [Marine and Coastal Fisheries](#), [Marine Policy](#), [Regional Studies in Marine Science](#), [Journal of the Marine Biological Association of the United Kingdom](#), [Scientia Marina](#), [Chemistry and Ecology](#), [Cahiers de Biologie Marine](#), [PLOS One](#), [PeerJ](#), [Latin American Journal of Aquatic Research](#), [Acta Ichthyologica et Piscatoria](#), [Mediterranean Marine Science](#), [Turkish Journal of Fisheries and Aquatic Sciences](#), [Water](#). Reviewer of two book chapters.

D. Participation in international meetings and working groups

Member of the Working Group on Comparative Ecosystem-based Analyses of Atlantic and Mediterranean marine systems: [WG COMEDA](#) of the International Council for the Exploration of the Sea (ICES). Participation in all group meetings since 2016: Bilbao (2016), Lisbon (2017), Sète (2018), Esporles (2019), remotely/online (2020), Palermo (2022), Ispra (2023), Patras (2024).

3rd International Workshop on Trait-based Approaches to Ocean Life: August 2017, Bergen (Norway).

STECF EWG 1704 - Quality assurance for DCF data (*Scientific, Technical and Economic Committee for Fisheries of the European Union, Reflection on the present and future requirements of the Data Collection Framework*): July 2017, Copenhagen (Denmark).

STECF EWG 1201 - DCF - Review of proposed DCF 2014-2020 (*Scientific, Technical and Economic Committee for Fisheries of the European Union, Reflection on the present and future requirements of the Data Collection Framework*): March 2012, Barza, Ispra (Italy).

E. Participation in committees

2019: Scientific Committee – [17th](#) Panhellenic Congress of Ichthyologists of the Ministry of Rural Development and Foods (Greece)

2013: Scientific Committee – 15th Panhellenic Congress of Ichthyologists of the Ministry of Rural Development and Foods (Greece)

8. Publications

A. Publications in international SCI journals

1. Lazaris A., Tserpes G., Kavadas S., Tzanatos E. (2025): Standardization of commercial catch data from multiple gears in mixed fisheries accounting for

- preferential sampling, catchability, and fishing effort. *Fisheries Research*, 284: 107305. [🔗](#)
2. Sguotti C., Vasilakopoulos P., **Tzanatos E.**, Frelat R. (2024): Resilience assessment in complex natural systems. *Proceedings of the Royal Society B: Biological Sciences*, 291: 20240089. [🔗](#)
 3. Samourdaní A., Ketsilis-Rinis V., Koutsidi M., Lazaris A., Peristeraki P., **Tzanatos E.** (2024): Ecology and behaviour of the invasive lionfish *Pterois miles* colonizing coastal areas of the central Mediterranean. *Estuarine, Coastal and Shelf Science*, 303: 108796. [🔗](#)
 4. Christidis G., Batziakas S., Peristeraki P., **Tzanatos E.**, Somarakis S., Tserpes G. (2024): Another One Bites the Net: Assessing the Economic Impacts of *Lagocephalus sceleratus* on Small-Scale Fisheries in Greece. *Fishes*, 9:104. [🔗](#)
 5. Koutsidi M., Lazaris A., Peristeraki P., Tserpes G., **Tzanatos E.** (2024): Quantification of intraspecific and interspecific competition in fish species of the Aegean Sea, *ICES Journal of Marine Science*, 81: 348-357. [🔗](#)
 6. Ntouni M.-M., Lazaris A., **Tzanatos E.** (2023): Patterns of fish occupancy of artificial habitats in the eastern Mediterranean shallow littoral. *Marine Biology*, 170: 105. [🔗](#)
 7. Samourdaní A., **Tzanatos E.** (2022): Fish distribution and behaviour with regard to the time of day and the anthropogenic structural modification of the shallow littoral. *Journal of Fish Biology*, 100: 820-830. [🔗](#)
 8. Maureaud A., Frelat R., Pécuchet L., Shackell N., Mérigot B., Pinsky M. L., Amador K., Anderson S. C., Arkhipkin A., Auber A., Barri I., Bell R., Belmaker J., Beukhof E., Camara M. L., Guevara-Carrasco R., Choi J., Christensen H. T., Conner J., Cubillos L. A., Diadhiou H. D., Edelist D., Emblemsvåg M., Ernst B., Fairweather T. P., Fock H. O., Friedland K. D., Garcia C. B., Gascuel D., Gislason H., Goren M., Guitton J., Jouffre D., Hattab T., Hidalgo M., Kathena J. N., Knuckey I., Kidé S. O., Koen-Alonso M., Koopman M., Kulik V., Palacios León J., Levitt-Barmats Y., Lindegren M., Llope M., Massiot-Granier F., Masski H., McLean M., Meissa B., Mérillet L., Mihneva V., Nunoo F. K. E., O'Driscoll R., O'Leary C. A., Petrova E., Ramos J. E., Refes J., Román-Marcote E., Siegstad H., Sobrino I., Sólmundsson J., Sonin O., Spies I., Steingrund P., Stephenson F., Stern N., Tserkova F., Tserpes G., **Tzanatos E.**, van Rijn I., van Zwieten P. A. M., Vasilakopoulos P., Yepsen D. V., Ziegler P., Thorson J. (2021): Are we ready to track climate-driven shifts in marine species across international boundaries? - A global survey of scientific bottom trawl data. *Global Change Biology*, 27: 220-236. [🔗](#)
 9. Tsimara E., Vasilakopoulos P., Koutsidi M., Raitos D., Lazaris A., **Tzanatos E.** (2021): An Integrated Traits Resilience Assessment of Mediterranean fisheries landings. *Journal of Animal Ecology*, 90: 2122-2134. [🔗](#)
 10. Koutsidi M., Moukas C., **Tzanatos E.** (2020): Trait-based life strategies, ecological niches and niche overlap in the nekton of the data-poor Mediterranean Sea. *Ecology and Evolution*, 10: 7129-7144. [🔗](#)
 11. Papapanagiotou G., Tsagarakis K., Koutsidi M., **Tzanatos E.** (2020): Using traits to build and explain an ecosystem model: Ecopath with Ecosim modelling of the North Aegean Sea (eastern Mediterranean). *Estuarine, Coastal and Shelf Science*, 236: 106614. [🔗](#)

12. **Tzanatos E.**, Moukas C., Koutsidi M. (2020): Mediterranean nekton traits: Distribution, relationships and significance for marine ecology monitoring and management. *PeerJ*, 8: e8494. [↗](#)
13. Tzortzakaki O., Kati V., Panitsa M., **Tzanatos E.**, Giokas S. (2019): Butterfly diversity along the urbanization gradient in a densely-built Mediterranean city: Land cover is more decisive than resources in structuring communities. *Landscape and Urban Planning*, 183: 79-87. [↗](#)
14. Matic-Skoko S., Šegvić-Bubić T., Mandić I., Izquierdo-Gomez D., Arneri E., Carbonara P., Grati F., Ikica Z., Kolutari J., Milone N., Sartor P., Scarcella G., Tokaç A., **Tzanatos E.** (2018): Evidence of subtle genetic structure in the sympatric species *Mullus barbatus* (Linnaeus, 1758) and *Mullus surmuletus* (Linnaeus, 1758) in the Mediterranean Sea. *Scientific Reports*, 8: 676. [↗](#)
15. Vasilakopoulos P., Raitsos D. E., **Tzanatos E.**, Maravelias C. D. (2017): Resilience and regime shifts in a marine biodiversity hotspot. *Scientific Reports*, 7: 13647. [↗](#)
16. Pappa M., Chychykalo A., Koutsidi M., Mavraki N., Lefkadiou E., Koutsikopoulos C., **Tzanatos E.** (2017): Biology and fisheries of the spotted flounder (*Citharus linguatula*) caught by multiple gears with partial spatiotemporal overlaps. *Aquatic Living Resources*, 30: 32. [↗](#)
17. Mavraki N., Georgiadis M., Koutsikopoulos C., **Tzanatos E.** (2016): Unravelling the nocturnal appearance of bogue *Boops boops* shoals in the anthropogenically modified shallow littoral, *Journal of Fish Biology*, 88: 2060-2066. [↗](#)
18. Koutsidi M., **Tzanatos E.**, Machias A., Vassilopoulou V. (2016): Fishing for function: The use of biological traits to evaluate the effects of multi-species fisheries on the functioning of fisheries assemblages, *ICES Journal of Marine Science*, 73: 1091-1103. [↗](#)
19. Pitta E., Kassara C., **Tzanatos E.**, Giokas S., Sfenthourakis S. (2014): Between-island compositional dissimilarity of avian communities, *Ecological Research*, 29:835-841. [↗](#)
20. Georgiadis M., Mavraki N., Koutsikopoulos C., **Tzanatos E.** (2014): Spatio-temporal dynamics and management implications of the nightly appearance of *Boops boops* (Acanthopterygii, Perciformes) juvenile shoals in the anthropogenically modified Mediterranean littoral zone, *Hydrobiologia*, 734:81-96. [↗](#)
21. **Tzanatos E.**, Raitsos D. E., Triantafyllou G., Somarakis S., Tsonis A. A. (2014): Indications of a climate effect on Mediterranean fisheries, *Climatic Change*, 122: 41–54. [↗](#)
22. **Tzanatos E.**, Castro J., Forcada A., Matic-Skoko S., Gaspar M., Koutsikopoulos C. (2013): A Metier-Sustainability-Index (MSI25) to evaluate fisheries components: assessment of cases from data-poor fisheries from southern Europe, *ICES Journal of Marine Science*, 70: 78-98. [↗](#)
23. Tserpes G., **Tzanatos E.**, Peristeraki P. (2011): Spatial management of the Mediterranean bottom-trawl fisheries; the case of the southern Aegean Sea, *Hydrobiologia*, 670: 160-166. [↗](#)
24. Tserpes G., **Tzanatos E.**, Peristeraki P., Placenti V., Kell L. (2009): A bioeconomic evaluation of different management measures for the Mediterranean swordfish. *Fisheries Research*, 96: 160-166. [↗](#)

25. Georgiadis M., Papatheodorou G., **Tzanatos E.**, Geraga M., Ramfos A., Koutsikopoulos C., Ferentinis G. (2009): Coralligène formations in the eastern Mediterranean Sea: Morphology, distribution, mapping and relation to fisheries in the southern Aegean Sea (Greece) based on high-resolution acoustics. *Journal of Experimental Marine Biology and Ecology*, 369: 44-58. [↗](#)
26. **Tzanatos E.**, Somarakis S., Tserpes G., Koutsikopoulos C. (2008): Catch length analysis, relation to minimum landing sizes and management implications from a Mediterranean small-scale fishery (Patraikos Gulf, Greece). *Fisheries Research*, 93: 125-134. [↗](#)
27. **Tzanatos E.**, Somarakis S., Tserpes G., Koutsikopoulos C. (2007): Discarding practices in a Mediterranean small-scale fishing fleet (Patraikos Gulf, Greece). *Fisheries Management & Ecology*, 14: 277-285. [↗](#)
28. **Tzanatos E.**, Somarakis S., Tserpes G., Koutsikopoulos C. (2006): Identifying and classifying small-scale fisheries métiers in the Mediterranean: a case study in the Patraikos Gulf, Greece. *Fisheries Research*, 81: 158-168. [↗](#)
29. **Tzanatos E.**, Dimitriou E., Papaharisis L., Roussi A., Somarakis S., Koutsikopoulos C. (2006): Principal socio-economic characteristics of the Greek small-scale coastal fishermen. *Ocean & Coastal Management*, 49: 511-527. [↗](#)
30. Sfenthourakis S., **Tzanatos E.**, Giokas S. (2006): Species co-occurrence: The case of congeneric species and a causal approach to patterns of species association. *Global Ecology and Biogeography*, 15: 39-49. [↗](#)
31. **Tzanatos E.**, Dimitriou E., Katselis G., Georgiadis M., Koutsikopoulos C. (2005): Composition, temporal dynamics and regional characteristics of small-scale fisheries in Greece. *Fisheries Research*, 73: 147-158. [↗](#)
32. Sfenthourakis S., Giokas S., **Tzanatos E.** (2004): From sampling stations to archipelagos: investigating aspects of the assemblage of insular biota. *Global Ecology and Biogeography*, 13: 23-35. [↗](#)

B. Publications in other peer-reviewed international journals

1. Tserpes G., **Tzanatos E.**, Peristeraki P. (2011): Use of risk analysis for the evaluation of different management strategies for the Mediterranean swordfish stock. *ICCAT Collective Volume of scientific Papers*, 66: 1506-1514. [↗](#)
2. **Tzanatos E.**, Tserpes G. (2011): Inclusion of stock reproductive potential in the evaluations of management scenarios for the Mediterranean swordfish. *ICCAT Collective Volume of scientific Papers*, 66: 1489-1494. [↗](#)
3. Tserpes G., **Tzanatos E.**, Peristeraki P., Placenti V., Kell L. (2009): Evaluating different management scenarios for the Mediterranean swordfish fishery: A bioeconomic approach. *ICCAT Collective Volume of scientific Papers*, 64: 2079-2092. [↗](#)

C. Books, workbooks and book chapters

1. Henriques S., Dolbeth M., Matos P., Pecuchet L., Palaretti Bernardo C., Weigel B., McLean M., Hidalgo M., **Tzanatos E.**, Vasconcelos R.P. (2025): Functional diversity in marine fish assemblages. In: Cabral H., Lepage M., Lobry J., Le Pape O. (Eds.). *Ecology of Marine Fish*. Academic Press: 267-294. [↗](#)
2. **Tzanatos E.**, Georgiadis M., Peristeraki P. (2020): Small-Scale Fisheries in Greece: Status, Problems, and Management. In: Pascual-Fernandez J., Pita C., Bavinck M.

- (Eds.). Small-Scale Fisheries in Europe: Status, resilience and governance. Springer, MARE Publication Series 23: 125-150. [🔗](#)
3. **Tzanatos E.**, Katselis G. (2005): Fisheries Technology & Fishing Vessels. Textbook, Department of Fisheries and Aquaculture, Technological Educational Institute of Mesologgi, Mesologgi, 82 p.

D. Conferences and symposia

1. Announcements in international (15) and national (23) conferences and symposia with full works or abstracts in conference proceedings
2. Invited speaker: *Biodiversity and exploitation of the marine ecosystem*. 8th Panhellenic Conference of Biosciences (2012)