

PERSONAL INFORMATION

Fabrizio Capoccioni



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🔗 SCOPUS Author ID: 35740008300

Sex Male | Date of birth 03/05/1982 | Nationality Italian

WORK EXPERIENCE

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- October 2020 – today

Permanent Researcher at Research Centre for Animal Production and Aquaculture - Council for Agricultural Research and Economics (CREA)

 - Biologist and aquaculture expert
 - September 2020 – July 2021

FAO consultant (General Fisheries Commission for the Mediterranean – GFCM)

 - Under the overall supervision of the GFCM Executive Secretary and direct supervision of the GFCM Information Management Officer, contributing the implementation of the European Union (EU)-funded project “Select activities of the mid-term strategy towards the sustainability of fisheries and the strategy for sustainable aquaculture development further implemented in the Mediterranean and Black Sea”. Topics: data management and assessment of European eel under the hat of Work Package 4 (WP4) of the GFCM “Research programme on European eel: towards coordination of European eel stock management and recovery in the Mediterranean”.
 - July 2013 – September 2020

Post-doc research fellowship at Council for Agricultural Research and Economics (CREA) - Research Centre for Animal Production and Aquaculture

 - Field and laboratory activities, scientific paper drafting, technical assistance to Ministry of Agricultural Food and Forestry Policies.
 - January 2015 – April 2015

FAO consultant (General Fisheries Commission for the Mediterranean – GFCM)

 - Under the overall supervision of the GFCM Executive Secretary and under the direct supervision of the GFCM Information Management Officer, by contributing to a practical exercise for the collection of data on eel fisheries in selected Mediterranean countries according to the EIFAAC/ICES/GFCM WGEEL standards with the aim to perform stock assessment
 - August 2012 – May 2013

Post-doc research fellowship at University of Rome “Tor Vergata” – Dept. of Biology

 - Field and laboratory activities, scientific paper drafting.

EDUCATION AND TRAINING

October 2008 – November 2011

PhD in Ecology and Evolution - University of Rome "Tor Vergata"

- Thesis title "Biological features of eel local stocks in the Mediterranean area, as a function of different ecological conditions"

October 2008 – November 2011

MSc in Ecology and Evolution - University of Rome "Tor Vergata"
Final Mark 110 /110 summa cum laude.

- Topic: Fish biology and aquaculture
- Thesis title: "Anguilla Europea (*Anguilla anguilla*, Linnaeus 1758), a species to be protected. Study of the *Anguilla anguilla* in the Tiber river"

October 2008 – November 2011

BSc Biology and Ecology - University of Rome "Tor Vergata"
Final Mark 110 /110 summa cum laude.

- Topic: Applied Ecology
- Thesis title: "Study of the ecology of *Gobius niger* (Linnaeus 1798) in the coastal lakes of the Circeo National Park, Italy"

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | C1 | C1 | C1 |
| French | A2 | A2 | A2 | A2 | A2 |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Bibliometric indexes (Scopus)

Orcid: 0000-0002-4752-6881
Peer review documents: 32
Citations: 444
h-index: 12

Field and laboratory skills

Setting up of sampling campaigns (biotic and abiotic parameters), nutritional and organoleptic analysis of raw materials, fishfeed diets and flesh quality, stock assessment of fish species (population dynamics)

Digital skills

Software: Microsoft OFFICE, PAST, Statistica, ARCGIS, Photoshop, R

ADDITIONAL INFORMATION

Projects on "Aquaculture" topic

- Scientific Coordinator Project INNOFISHFARM: "Ricerca partecipata e trasferimento tecnologico per la crescita sostenibile dell'itticoltura italiana". 12/2021 – 12/2024. Funded by MIPAAF. Budget: 500.000 €
- Scientific Coordinator Project HOLOTHURIA "Valutazione dello stato della risorsa Holothuria spp. in ambiente marino costiero in Italia, messa a punto di biomarker lipidici per la caratterizzazione degli stock e indagini sull'impatto economico del prelievo". 10/2020 – 10/2023. Funded by MIPAAF. Budget: 360.000 €
- UO CREA coordinator Project FORESHELL "Sviluppo di strumenti tecnologici predittivi sanitario/meteo-ambientali per potenziare l'efficienza e la sostenibilità degli impianti di molluschicoltura". Funded by Abruzzo Region (Flag EMFAF). 09/2021-03-2022. Budget: 70.000 €.

Selected Publications

1. Aalto, E., Capoccioni, F., Terradez Mas, J., Schiavina, M., Leone, C., De Leo, G., and Ciccotti, E. (2016). Quantifying 60 years of declining European eel (*Anguilla anguilla* L., 1758) fishery yields in Mediterranean coastal lagoons. *ICES Journal of Marine Science* 73, 101–110. doi:10.1093/icesjms/fov084
2. Bertolini, F., Ribani, A., Capoccioni, F., Buttazzoni, L., Utzeri, V. J., Bovo, S., Schiavo, G., Caggiano, M., Rothschild, M. F., and Fontanesi, L. (2021). A comparative whole genome sequencing analysis identified a candidate locus for lack of operculum in cultivated gilthead seabream (*Sparus aurata*). *Animal Genetics* 52, 365–370. doi:10.1111/age.13049
3. Bertolini, F., Ribani, A., Capoccioni, F., Buttazzoni, L., Utzeri, V. J., Bovo, S., Schiavo, G., Caggiano, M., Fontanesi, L., and Rothschild, M. F. (2020). Identification of a major locus determining a pigmentation defect in cultivated gilthead seabream (*Sparus aurata*). *Animal Genetics* 2016, 319–323. doi:10.1111/age.12890
4. Bettinetti, R., Galassi, S., Quadroni, S., Volta, P., Capoccioni, F., Ciccotti, E., and De Leo, G. A. G. a. (2010). Use of *Anguilla anguilla* for Biomonitoring Persistent Organic Pollutants (POPs) in Brackish and Riverine Waters in Central and Southern Italy. *Water, Air, & Soil Pollution* 217, 321–331. doi:10.1007/s11270-010-0590-y
5. Bevacqua, D., Capoccioni, F., Melià, P., Vincenzi, S., Pujolar, J. M., De Leo, G. A., and Ciccotti, E. (2012). Fishery-induced selection for slow somatic growth in European eel. *PLoS one* 7, e37622. doi:10.1371/journal.pone.0037622
6. Capoccioni, F., Contò, M., Failla, S., Buttazzoni, L., and Pulcini, D. (2017). Growth of Wild Gilthead Seabream (*Sparus aurata* L.) Juveniles for Organic Aquaculture. *The Israeli Journal of Aquaculture -Barnidgah*.
7. Capoccioni, F., Contò, M., Failla, S., Cataudella, S., and Ciccotti, E. (2018). Fatty acid profiles of migrating female silver eel from Mediterranean coastal lagoons as integrative descriptors of spawners biological quality. *Estuarine, Coastal and Shelf Science* 210, 87–97. doi:10.1016/j.ecss.2018.06.017
8. Capoccioni, F., Leone, C., Belpaire, C., Malavannan, G., Poma, G., De Matteis, G., Tancioni, L., Contò, M., Failla, S., Covaci, A., and Ciccotti, E. (2020). Quality assessment of escaping silver eel (*Anguilla anguilla* L.) to support management and conservation strategies in Mediterranean coastal lagoons. *Environmental Monitoring and Assessment* 192, 23–32. doi:10.1007/s10661-020-08533-6
9. Capoccioni, F., Leone, C., Giustini, F., Brilli, M., Buttazzoni, L., Hanel, R., and Ciccotti, E. (2021). $\delta^{13}C$ and $\delta^{15}N$ in yellow and silver eels (*Anguilla anguilla*, 1758) from different Mediterranean local stocks and their variation with body size and growth. *Marine and Freshwater Research* 72, 1208. doi:10.1071/MF20144
10. Leone, C., Capoccioni, F., Belpaire, C., Malavannan, G., Poma, G., Covaci, A., Tancioni, L., Cont, M., and Ciccotti, E. (2020). Evaluation of Environmental Quality of Mediterranean Coastal Lagoons Using Persistent Organic
11. Martini, A., Cali, M., Capoccioni, F., Martinoli, M., Pulcini, D., Buttazzoni, L., Moranduzzo, T., and Pirlo, G. (2022). Environmental performance and shell formation-related carbon flows for mussel farming systems. *Science of The Total Environment*, 154891. doi:10.1016/j.scitotenv.2022.154891
12. Martinoli, M., Pulcini, D., Veroli, M., Renzi, G., Failla, S., and Capoccioni, F. (2021). Effects of *Portulaca oleracea* whole diet on pigments and fatty acids profiles of juvenile red swamp crayfish (*Procambarus clarkii* Girard, 1852) under laboratory conditions. *Aquaculture Research* 52, 5180–5189. doi:10.1111/are.15386
13. Pulcini, D., Capoccioni, F., Franceschini, S., Martinoli, M., and Tibaldi, E. (2020). Skin Pigmentation in Gilthead Seabream (*Sparus aurata* L.) Fed Conventional and Novel Protein Sources in Diets Deprived of Fish Meal. *Animals* 10, 21–38. doi:10.3390/ani10112138
14. Pulcini, D., Capoccioni, F., Franceschini, S., Martinoli, M., and Tibaldi, E. (2020). Skin Pigmentation in Gilthead Seabream (*Sparus aurata* L.) Fed Conventional and Novel Protein Sources in Diets Deprived of Fish Meal. *Animals* 10, 21–38. doi:10.3390/ani10112138
15. Pulcini, D., Capoccioni, F., Franceschini, S., Martinoli, M., Facenda, F., Secci, G., Perugini, A., Tibaldi, E., and Parisi, G. (2021). Muscle pigmentation in rainbow trout (*Oncorhynchus mykiss*) fed diets rich in natural carotenoids from microalgae and crustaceans. *Aquaculture* 543, 736989. doi:10.1016/j.aquaculture.2021.736989
16. Pulcini, D., Franceschini, S., Buttazzoni, L., Giannetti, C., and Capoccioni, F. (2020). Consumer Preferences for Farmed Seafood: An Italian Case Study. *Journal of Aquatic Food Product Technology* 29, 445–460. doi:10.1080/10498850.2020.1749201
17. Quadroni, S., Galassi, S., Capoccioni, F., Ciccotti, E., Grandi, G., De Leo, G. A. G. a., and Bettinetti, R. (2013). Contamination, parasitism and condition of *Anguilla anguilla* in three Italian stocks. *Ecotoxicology* 22, 94–108. doi:10.1007/s10646-012-1006-0
18. Veroli, M., Martinoli, M., Caprioli, R., Angelici, C., Pulcini, D., and Capoccioni, F. (2021). Population structure and dynamics of the invasive *Procambarus clarkii* (Girard, 1852) in a Tiber river Ramsar site, Central Italy. *International Journal of Aquatic Biology* 9, 23–32. doi:10.22034/ijab.v0i0.1006
19. Zarantonello, M., Pulido Rodriguez, L. F., Randazzo, B., Cardinaletti, G., Giorgini, E., Belloni, A., Secci, G., Facenda, F., Pulcini, D., Parisi, G., Capoccioni, F., Tibaldi, E., and Olivetto, I. (2022). Conventional feed additives or red claw crayfish meal and dried microbial biomass as feed supplement in fish meal-free diets for rainbow trout (*Oncorhynchus mykiss*): Possible ameliorative effects on growth and gut health status. *Aquaculture* 554, 738137. doi:10.1016/j.aquaculture.2022.738137

- Courses**
- 2021 - Using R software for statistical analysis". Organized by CREA
 - 2021 - "Course on new feeds and feeding technologies in aquaculture". Organized by International Centre for Advanced Mediterranean Agronomic Studies of Zaragoza (CIHEAM)
 - 2017 - Training Course On "ArcGIS 1 and 2" Organized by Esri Italia 8-10th February – Rome
 - 2010 - Training Course On "Introduction to Meta-Analysis In Ecology", Organized By CONISMA and by Università Di Lecce from 15-20th December 2009
 - 2004 - Workshop "International Forum on Partnerships for Sustainable Development" organized by F.A.O. (Food and Agriculture Organization), held in Rome.
 - 2009 - "Course: Programming With Phyton" Organized By CRA-ING, Monterotondo (Rm), and by SPES SOC.COOP.P.A., Fabriano (An)
 - 2009 - "Course on Stock Assessment Using FLR" organized by CNR ISMAR (U.O. ANCONA) and by CEFAS (UK).
 - 2007 - Course on "Elements of strategic planning for the scientific international drafting" organized by Prof. Enrico Alleva (Istituto Superiore di Sanità, ISS), held in Rome
- Services**
- 2021 – today: Member of the Intergovernmental Technical Working Group on Aquatic Genetic Resources for Food and Agriculture (FAO)
 - 2019 - today: National Focal Point of the "General Fisheries Commission for the Mediterranean" (GFCM) of FAO for the activities related to the collection and transmission of data on national aquaculture.
 - 2012 – today: member of the Expert Group Fisheries Control / CITES Experts on Eels serving the Italian Minister of Fisheries (MIPAAF).
 - 2011 - today: member of the FAO/GFCM European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC).
 - 2010 - today: serving in the panel set up by with the Italian Minister of Fisheries (MIPAAF) for the setting up of the Eel Management plan according to the EU Regulation 1100/07.
 - 2009 - today: member of the Joint ICES/EIFAAC/GFCM Working Group on Eels
 - 2009 - today: member of the ICES Study Group on Anguillid Eels in Saline Waters

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Rome, 10 February 2023

