

AGNESE MARCHINI

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RESEARCHGATE PROFILE: https://www.researchgate.net/profile/Agnese_Marchini

Current position

Since November 2016, Senior Researcher in Ecology at the Department of Earth and Environmental Sciences, University of Pavia.

Education

Agnese Marchini, born in 1975, graduated in Biology in 2000 and obtained a PhD in Experimental Ecology in 2004 at the University of Pavia, Italy. Her doctoral thesis concerned the development of a model for the classification of different lagoon environments based on benthic communities.

Research activity

Agnese Marchini has been a visiting fellow at the University of Aveiro, Portugal, where she trained on taxonomy of marine amphipods, and a post-doc fellow at the Universities of Pavia and Ferrara), Italy, where she participated to several national and international projects. Her post-doc researches concerned the ecological quality status of Italian lagoon environments; biological traits and ecology of benthic macroinvertebrates as indicators of ecological conditions; application of the mathematical approach of fuzzy logic for the development of indices of ecological status; distribution and ecology of marine invasive species; vectors of introduction and spread of marine alien species in the Mediterranean Sea; environmental impacts of marine invasive species.

In particular, she has worked on peracarid crustaceans collected from man-modified habitats (ports, marinas, lagoons) of the Mediterranean Sea, Red Sea, Macaronesia and North-Eastern Atlantic, and has gained a vast experience on non-indigenous species occurring in the fouling communities.

Teaching and tutoring

2018-present: responsible for the University of Pavia (UNIPV) of the joint Master programme IMBRSea - International Master in Marine Biological Resources, where UNIPV is associate partner. Role: coordinating theses and internship offers from UNIPV to IMBRSea students.

2017-present: Assistant Professor of Ecology and Hydrobiology at University of Pavia.

2016: invited seminar "*Applications of fuzzy logic to marine environmental research: even biologists can do it!*" for the students of the doctorate program in Ecology and Environmental Sciences at the University of Klaipėda (Lithuania).

2016: invited seminar "*Marine Biological invasions in the Mediterranean Sea: Current situation and future challenges*" for the students of the doctorate program in Integrative Biology – Animal Biology Section at the University of Seville (Spain).

2014-16: Adjunct professor of Ecology and Hydrobiology at University of Pavia.

In 2012, 2013 and 2015 organised and taught the international training course (on-line course) "*Applications of fuzzy logic to marine environmental research*" for the MARES international doctorate school (Erasmus Mundus program).

2001-2013: teaching assistant in Ecology at the University of Pavia

Moreover, Agnese Marchini tutored or co-tutored 5 PhD theses (1 ongoing) in Experimental Ecology and Environmental Science, and 26 graduation theses (bachelor and master level) in Biology and Natural Sciences at the Universities of Pavia, Aveiro (Portugal) and Ghent (Belgium).

Membership to national and international scientific boards

Since 2018: elected member of the “Benthos group” within the Italian Society of Marine Biology.

Since 2018: member of the Working Group on Invasive Alien Species (WGIAS) of the European Commission's Directorate General for Environment (DG Environment).

Since 2018: linguistic collaborator (for Italian language) of the software AS-ISK V2 (Aquatic Species – Invasiveness Screening Kit), developed by G. Copp (CEFAS, UK) and L. Vilizzi (University of Lodz, Poland).

Since 2018: coordinator of the Horizon Scanning Exercise on marine alien species for Italy, conducted by the Italian Society of Marine Biology (SIBM) and lead by Dr. Piero Genovesi of the Italian Institute for Environmental Protection and Research (ISPRA).

2017: member of the technical committee of the 89th International Joint Conference on *Computational Intelligence - IJCCI 2017* (Madeira, Portugal).

2016: member of the technical committee of the 8th International Conference on *Fuzzy Computation Theory and Applications - FCTA 2016* (Porto, Portugal), within the IJCCI (International Joint Conference on Computational Intelligence).

Since 2015: contribution to the Global Register of Introduced and Invasive Species (GRIIS), in the framework of the initiative CBD (Convention of Biological Diversity) of the IUCN Invasive Species Specialist Group: <http://www.iucngisd.org/gisd/>. Coordinator: Dr. S. Pagad, University of Auckland (New Zealand).

Since 2015: thematic editor of marine amphipods for WRIMS (World list of Invasive Marine Species), within the initiative WORMS (World Register of Marine Species): <http://www.marinespecies.org/introduced/>. Coordinator: Prof. M. Costello, University of Auckland (New Zealand). Since 2018: member of the interim Steering Committee.

Since 2012: Member of the Editorial board of AquaNIS (online information service on Aquatic Non-Indigenous Species): <http://www.corpi.ku.lt/databases/index.php/aquanis>. Coordinator: Prof. S. Olenin, University of Klaipėda (Lithuania).

Since 2010: Member of the “Allochthonous species group” of the Italian Society of Marine Biology (S.I.B.M.): http://www.sibm.it/file%20doc/Alloctoni_Italia_SIBM_vers%2015_Feb_2016.pdf. Coordinator: Prof. A. Occhipinti, University of Pavia (Italy).

Editorial and Reviewer activity

Agnese Marchini is Associate Editor for the journals *BioInvasion Records* (Publisher: REABIC), *Mediterranean Marine Sciences* (Publisher: Hellenic Centre for Marine Research) and Guest Editor for the journal *Frontiers in Marine Sciences*.

She has served as reviewer for 38 international journals of ecology, marine biology, environmental monitoring, modelling and management. The complete reviewer record is available at the personal Publons profile: <https://publons.com/author/559473>. In 2017, she was awarded the “Publons peer review award” for top 1% reviewers of the field *Agricultural and Biological Sciences* on the basis of most peer-reviews completed.

She has served as reviewer for national (CARIPO) and international (Fund for Scientific Research of Belgium; Science Foundation of Croatia; National Science Center, of Poland) funding programs.

She has been member of examiner commissions for doctorates in Italy and abroad (University of Milan, Italy, University of Aveiro, Portugal and University of Klaipėda, Lithuania). Since 2017, she is member of the doctorate commission at the Department of Earth and Environmental Sciences and is reviewer of doctorate projects.

Outreach activities

Her researches are covered by several national and international newspapers.

Since 2017, she writes educational articles for the on-line magazines *Focus* and *Quotidiano della Natura* (in Italian).

Researcher performance

Agnese Marchini has authored or co-authored over 50 articles published on peer-reviewed journals, and 4 book chapters.

According to Scopus (Sept 2018): 52 indexed publications; 1015 citations; H-index: 17.

She is co-editor of the Italian edition of the best-seller academic textbook "Elements of Ecology" by T.M Smith & R.L. Smith (Pearson Publisher) - 8th edition and 9th edition.


Her researches have been presented at 64 scientific conferences, including 32 international conferences.

Selected publications (past 5 years)

- **Marchini A**, Costa AC, Ferrario J, Micael J (2018). The global invader *Paracerceis sculpta* (Isopoda: Sphaeromatidae) has extended its range to the Azores archipelago. *Marine Biodiversity* 48: 1001-1007.
- Paganelli D, Pandolfi A, Sconfiotti R, **Marchini A**, Vilizzi L (2018). Potential invasiveness by non-indigenous macrozoobenthos in the secondary hydrographic system of a temperate-climate river catchment. *Ecological Indicators* 88: 274-281.
- Cardeccia A, **Marchini A**, Occhipinti-Ambrogi A, Galil BS, Gollash S, Narščius A., Minchin D, Olenin S, Ojaveer H (2018) Assessing Biological Invasion of European Seas: biological traits of Most Widespread NIS. *Estuarine, Coastal and Shelf Science*, 201: 17-28.
- Ferrario J, Caronni S, Occhipinti-Ambrogi A, **Marchini A** (2017) Role of commercial harbours and recreational marinas in the spread of non-indigenous fouling species. *Biofouling*33(8): 651-660
- **Marchini A**, Cardeccia A (2017) Alien amphipods in a sea of troubles: cryptogenic species, unresolved taxonomy and overlooked introductions. *Marine Biology* 164 (4): 69
- Ulman A, Ferrario J, Occhipinti-Ambrogi A, Arvanitidis C, Bandi A, Bertolino M, Bogi C, Chatzigeorgiou G, Çiçek BA, Deidun A, Ramos-Esplá A, Koçak C, Lorenti M, Martinez-Laiz G, Merlo G, Prinisgh E, Scribano G, **Marchini A** (2017) A massive update of non-indigenous species records in Mediterranean marinas. *PeerJ* 5: e3954.
- Marić M, Ferrario J, **Marchini A**, Occhipinti-Ambrogi A, Minchin D (2017) Rapid assessment of marine non-indigenous species on mooring lines of leisure craft: new records in Croatia (eastern Adriatic Sea). *Marine Biodiversity* 47(3): 949-956.
- Ferrario J, **Marchini A**, Borrelli P, Gigli Berzolari F, Occhipinti-Ambrogi A (2016) A fuzzy 'boater' model to detect fouling and spreading risk of non-indigenous species by recreational boats. *Journal of Environmental Management*, 182: 198-207.
- Paganelli D, Caronni S, **Marchini A**, Gazzola A, Sconfiotti R (2016) Dynamics and population structure of native *Echinogammarus stammeri* (Karaman, 1931) (Crustacea: Amphipoda) and non-native *Gammarus roeselii* Gervais, 1835 (Crustacea: Amphipoda) occurring in sympatry in Northern Italy. *Italian Journal of Zoology* 83 (4), pp. 563-570
- **Marchini A**, Ferrario J, Occhipinti-Ambrogi A (2016) Confirming predictions: the invasive isopod *Ianiropsis serricaudis* Gurjanova, 1936 (Crustacea: Peracarida) is abundant in the Lagoon of Venice. *Acta Adriatica* 57(2): 331-336.
- **Marchini A**, Ferrario J, Nasi E (2016) Arrival of the invasive amphipod *Grandidierella japonica* to the Mediterranean Sea. *Marine Biodiversity Records* 9: 38.
- **Marchini A**, Galil BS, Occhipinti-Ambrogi A (2015) Recommendations on standardizing lists of marine alien species: lessons from the Mediterranean Sea. *Marine Pollution Bulletin*, 101(1): 267–273.
- **Marchini A**, Ferrario J, Sfriso A, Occhipinti-Ambrogi A (2015) Current status and trends of biological invasions in the Lagoon of Venice, a hotspot of marine NIS introductions in the Mediterranean Sea. *Biological Invasions*, 17(10): 2943-2962.

- Ojaveer H, Galil BS, Campbell ML, Carlton JT, Canning-Clode J, Cook EJ, Davidson AD, Hewitt CL, Jelmert A, **Marchini A**, McKenzie CH, Minchin D, Occhipinti-Ambrogi A, Olenin S, Ruiz G (2015). Classification of non-indigenous species based on their impacts: considerations for application in marine management. *PLOS Biology*, 13(4): e1002130.
- Galil BS, **Marchini A**, Occhipinti-Ambrogi A, Minchin D, Narščius A, Ojaveer H, Olenin S (2014) International arrivals: widespread bioinvasions in European seas. *Ethology Ecology & Evolution*, 26(2-3): 157-171.
- Olenin S, Narščius A, Minchin D, David M, Galil B, Gollasch S, **Marchini A**, Occhipinti-Ambrogi A, Ojaveer H, Zaiko A (2014). Making non-indigenous species information systems practical for management and useful for research: an aquatic perspective. *Biological conservation*, 173: 98–107.

Pavia, Sept. 5th, 2018

A handwritten signature in black ink, appearing to read 'Agnese Marchini', with a long horizontal stroke extending to the right.