

Laura Tamburello



Born in Vimercate (MI - Italy) on 14/09/1981

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Current Position: 3rd Level Researcher

Current Affiliation:

Section Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Milano, Milano, Italy	Bachelor (Laurea)	2000-2003	Biological sciences, course of animal biology
Department of biology, University of Pisa, Pisa, Italy	Master (Laurea)	2003-2005	Marine biology
Department of biology, University of Pisa, Pisa, Italy	Ph.D.	2005-2009	Evolutionary biology (marine ecology)
Department of biology, University of Pisa, Pisa, Italy	Student fellow	2009	Experimental ecology (benthic)
University of Alaska, Fairbanks, Alaska	Research contract	2010	Spatial ecology (GIS)
Department of biology, University of Pisa, Pisa, Italy	Student fellow	2009-2011	Spatial and experimental (invasion) ecology
Department of biology, University of Pisa, Pisa, Italy	Postdoc	2012-2013	Spatial and experimental (invasion) ecology
Department of biology, University of Pisa, Pisa, Italy	Researcher	2013-2015	Experimental ecology
Department of biology, University of Pisa, Pisa, Italy	Student fellow	2016	Experimental ecology
Institute for Marine Antarctic Studies, University of Tasmania, Hobart, Tasmania	Visitor scientist	2016-2017	Benthic ecology, ecological modelling
Consorzio Nazionale Interuniversitario per le Scienze	Student fellow	2017-2019	Restoration ecology

del Mare, Lecce, Italy			
Stazione Zoologica Anton Dohrn, Palermo, Italy	Researcher	2019-present	Experimental design, restoration ecology

Appointments and awards

2013-2016: Grant for the FIRB project HI-BEF (Unveiling hidden relationships between biodiversity and ecosystem functioning in Mediterranean rocky reefs), supported by MIUR. Principal investigator: C. Bonaviri (University of Palermo).

Students' Supervision

Student supervisor of one PhD student, two master and six bachelor theses.

Publications

Author of 37 publications on ISI-journals (h index: 23)

List of publications:

Peer-reviewed publications:

- Kolzenburg R, Ragazzola F, Tamburello L, Nicastro KR, McQuaid CD, Zardi GI (2023) Photosynthetic Response to a Winter Heatwave in Leading and Trailing Edge Populations of the Intertidal Red Alga *Corallina officinalis* (Rhodophyta). *Acta Oceanologica Sinica*, 43: 1-7.
- Verdura J, Rehues L, Mangialajo L, Frascetti S, Belattmania Z, ..., Tamburello L, Thibaut T, Tsirintanis K, Cebrian E (2023) Distribution, health and threats to Mediterranean macroalgal forests: defining the baselines for their conservation and restoration. *Frontiers in Marine Science*, 10: 1258842 doi: 10.3389/fmars.2023.1258842
- Fabbrizzi E, Munari M, Frascetti S, Arena C, Chiarore A, Cannavacciuolo A, Colletti A, Costanzo G, Soler-Fajardo A, Nannini M, Savinelli B, Silvestrini C, Vitale E, Tamburello L (2023) Canopy-forming macroalgae can adapt to marine heatwaves. *Environmental Research* 238: 117218 doi: <https://doi.org/10.1016/j.envres.2023.117218>
- Eger AM, Aguirre JD, Altamirano M, Arafeh-Dalmau N, Larissa Arroyo N, ... Tamburello L, ... & Vergès A (2023) The Kelp Forest Challenge: A collaborative global movement to protect and restore 4 million hectares of kelp forests. *Journal of Applied Phycology*, 1-14 <https://doi.org/10.1007/s10811-023-03103-y>
- Ragkousis M, Zenetos A, Ben Souissi J, Hoffman R, Ghanem R, ... Tamburello L, Katsanevakis S (2023) Unpublished Mediterranean and Black Sea records of marine alien, cryptogenic, and neontative species. *BioInvasions Records*, 12(2), 339-369
- Elsherbini J, Corzett C, Ravaglioli C, Tamburello L, Polz M, Bulleri F (2023) Epilithic bacterial assemblages on subtidal rocky reefs: variation among alternative habitats at ambient and enhanced nutrient levels. *Microbial Ecology*, 1-13 <https://doi.org/10.1007/s00248-023-02174-1>
- Borghese J, Musco L, Arduini D, Tamburello L, Del Pasqua M, Giangrande A (2023) A Comparative Approach to Detect Macrobenthic Response to the Conversion of an Inshore Mariculture Plant into an IMTA System in the Mar Grande of Taranto (Mediterranean Sea, Italy). *Water* 2023,15, 68 <https://doi.org/10.3390/w15010068>

- Fabbrizzi E, Giakoumi S, De Leo F, Tamburello L, Chiarore A, ... & Fraschetti S (2023) The challenge of setting restoration targets for macroalgal forests under climate changes. *Journal of Environmental Management*, 326: 116834 doi: <https://doi.org/10.1016/j.jenvman.2022.116834>
- Garrabou J, Gómez-Gras D, Medrano A, Cerrano C, Ponti M, ... Tamburello L, ... & Harmelin JG (2022) Marine heatwaves drive recurrent mass mortalities in the Mediterranean Sea. *Global Change Biology*, 28: 5708-5725 doi: 10.1111/gcb.16301
- Fraschetti S, Fabbrizzi E, Tamburello L, Uyarrad MC, Micheli F, & Borja A (2022) An integrated assessment of the Good Environmental Status of Mediterranean Marine Protected Areas. *Journal of Environmental Management*, 305: 114370 doi: 10.1016/j.jenvman.2021.114370
- Tamburello L, Chiarore A, Fabbrizzi E, Colletti A, Franzitta G, Grech D, Rindi F, Rizzo L, Savinelli B, Fraschetti S (2022) Can we preserve and restore overlooked macroalgal forests? *Science of the Total Environment*, 806: 150855 doi: 10.1016/j.scitotenv.2021.150855
- Cebrian E, Tamburello L, Verdura J, Guarnieri G, Medrano A, Linares C, Hereu B, Garrabou J, Cerrano C, Galobart C, Fraschetti S (2021) A roadmap for restoration of Mediterranean macroalgal forests. *Frontiers in Marine Science*, 8: 709219 doi: 10.3389/fmars.2021.709219
- Orfanidis S, Rindi F, Cebrian E, Fraschetti S, Nasto I, ... Tamburello L, ... & Danovaro R (2021) Effects of natural and anthropogenic stressors on Fucal brown seaweeds across different spatial scales in the Mediterranean Sea. *Frontiers in Marine Science*, 8: 658417. doi: 10.3389/fmars.2021.658417
- Bulleri F, Pardi G, Tamburello L, Ravaglioli C (2020) Nutrient enrichment stimulates herbivory and alters epibiont assemblages at the edge but not inside subtidal macroalgal forests. *Marine Biology*, 167: 1-15 doi: 10.1007/s00227-020-03789-5
- Colletti A, Savinelli B, Di Muzio G, Rizzo L, Tamburello L, Fraschetti S, Musco L, Danovaro R (2020) The date mussel *Lithophaga lithophaga*: Biology, ecology and the multiple impacts of its illegal fishery. *Science of the Total Environment*, 744: 140866 doi: 10.1016/j.scitotenv.2020.140866
- Guarnieri G, Bevilacqua S, Figueras N, Tamburello L, Fraschetti S (2020) Large-scale sea urchin culling drives the reduction of subtidal barren grounds in the Mediterranean Sea. *Frontiers in Marine Science*, 7: 519 doi: 10.3389/fmars.2020.00519
- Tamburello L, Papa L, Guarnieri G, Basconi L, Zampardi S, Scipione MB, Terlizzi A, Zupo V, Fraschetti S (2019) Are we ready for scaling up restoration actions? An insight from Mediterranean macroalgal canopies. *PloS ONE*, 14(10): e0224477 doi: 10.1371/journal.pone.0224477
- Rilov G, Fraschetti S, Gissi E, Pipitone C, Badalamenti F, Tamburello L, Menini E, Goriup P, Mazaris AD, Garrabou J, Benedetti-Cecchi L, Danovaro R, Loiseau C, Claudet J, Katsanevakis S (2019) A fast-moving target: achieving marine conservation goals under shifting climate and policies. *Ecological Applications* doi: 10.1002/eap.2009
- Tamburello L, Ravaglioli C, Mori G, Nuccio C, Bulleri F (2019) Enhanced nutrient loading and herbivory do not depress the resilience of subtidal canopy forests in Mediterranean oligotrophic waters. *Marine Environmental Research*, 149: 7-17 doi: 10.1016/j.marenvres.2019.05.015
- Bulleri F, Tamburello L, Pusceddu A, Bonechi L, Cau A, Moccia D, Gribben PE (2018) Fragment quality and sediment organic loading regulate the survival of an invasive, clonal seaweed. *Biological Invasions*, 20: 1953-1959 doi: 10.1007/s10530-018-1685-4

- Falace A, Tamburello L, Guarnieri G, Kaleb S, Papa L, Frascchetti S (2018) Effects of a glyphosate-based herbicide on *Fucus virsoides* (Fucales, Ochrophyta) photosynthetic efficiency. *Environmental Pollution*, 243: 912-918. doi: 10.1016/j.envpol.2018.08.053
- Ravaglioli C, Lauritano C, Buia MC, Balestri E, Capocchi A, Fontanini D, Pardi G, Tamburello L, Procaccini G, Bulleri F (2017) Nutrient loading fosters productivity under ocean acidification. *Scientific Reports* 7,13732 doi: 10.1038/s41598-017-14075-8
- Bulleri F, Benedetti-Cecchi L, Ceccherelli G, Tamburello L (2017) A few is enough: a low cover of the non-native seaweed *Caulerpa cylindracea* reduces the resilience of Mediterranean macroalgal stands to disturbances of varying extent. *Biological Invasions* 19: 2291-2305 doi:10.1007/s10530-017-1442-0
- Benedetti-Cecchi L, Canepa A, Fuentes V, Tamburello L, Purcell JE, Piraino S, Roberts J, Boero F, Halpin P (2015) Deterministic factors overwhelm stochastic environmental fluctuations as drivers of jellyfish outbreaks. *PloS ONE* 10(10):e0141060 doi: 10.1371/journal.pone.0141060
- Benedetti-Cecchi L, Tamburello L, Maggi E, Bulleri F (2015) Experimental perturbations modify the performance of early warning indicators of regime shift. *Current Biology* 25:1867-1872 doi: 10.1016/j.cub.2015.05.035
- Tamburello L, Maggi E, Benedetti-Cecchi L, Bellistri G, Rattray AJ, Ravaglioli C, Rindi L, Roberts J, Bulleri F (2015) Variation in the impact of non-native seaweeds along gradients of habitat degradation: a meta-analysis and an experimental test. *Oikos* 124: 1121-1131 doi: 10.1111/oik.02197
- Tamburello L, Bulleri F, Balata D, Benedetti-Cecchi L (2014) The role of overgrazing and anthropogenic disturbance in shaping spatial patterns of distribution of an invasive seaweed. *Journal of Applied Ecology* 51(2): 406-414 doi: 11/1365-2664.12199
- Tamburello L, Bulleri F, Bertocci I, Maggi E, Benedetti-Cecchi L (2013) Reddened seascapes: experimentally induced shifts in 1/f spectra of spatial variability in rocky intertidal assemblages. *Ecology* 94(5): 1102-1111 doi: 10.1890/12-1293.1
- Tamburello L, Benedetti-Cecchi L, Masini L, Bulleri F (2013) Habitat heterogeneity promotes the coexistence of alien seaweeds. *Oecologia* 172: 505-513 doi: 10.1007/s00442-012-2510-x
- Fantozzi L, Ferrara R, Dini F, Tamburello L, Pirrone N, Sprovieri F (2013) Study on the reduction of atmospheric mercury emissions from mine waste enriched soils through native grass cover in the Mt. Amiata region of Italy. *Environmental Research* 125: 69-74 doi: 10.1016/j.envres.2013.02.004
- Tamburello L, Benedetti-Cecchi L, Ghedini G, Alestra T, Bulleri F (2012) Variation in the structure of subtidal landscapes in the NW Mediterranean Sea. *Marine Ecology Progress Series* 457: 29-41 doi: 10.3354/meps09703
- Benedetti-Cecchi L, Tamburello L, Bulleri F, Maggi E, Gennusa V, Miller M (2012) Linking patterns and processes across scales: the application of scale transition theory to algal dynamics on rocky shores. *Journal of Experimental Biology* 215: 977-985 doi: 10.1242/jeb.058826
- Bulleri F, Alestra T, Ceccherelli G, Tamburello L, Pinna S, Sechi N, Benedetti-Cecchi L (2011) Determinants of *Caulerpa racemosa* distribution in the north-western Mediterranean. *Marine Ecology Progress Series* 431: 55-67 doi: 10.3354/meps09137
- Pohle G, Iken K, Trott T, Konar B, Cruz-Motta JJ, Wong M, Benedetti-Cecchi L, Mead A, Miloslavic P, Mieszkowska N, Milne R, Tamburello L, Knowlton A, Kimani E, Shirayama Y (2010) Aspects of benthic decapod diversity and distribution from rocky nearshore habitat at

geographically widely dispersed sites. PloS ONE 6(4): e18606
doi: 10.1371/journal.pone.0018606

Benedetti-Cecchi L, Iken K, Konar B, Cruz-Motta JJ, Knowlton A, Pohle G, Castelli A, Tamburello L, Mead A, Trott T, Miloslavich P, Wong M, Shirayama Y, Lardicci C, Palomo G, Maggi E (2010) Spatial relationships between Polychaete assemblages and environmental variables over broad geographical scales. PloS ONE 5(9): e12946
doi: 10.1371/journal.pone.0012946

Bulleri F, Balata D, Bertocci I, Tamburello L, Benedetti-Cecchi L (2010) The seaweed *Caulerpa racemosa* on Mediterranean rocky reefs: from passenger to driver of ecological change. Ecology 91: 2205-2212 doi: 10.1890/09-1857.1

Bulleri F, Tamburello L, Benedetti-Cecchi L (2009) Loss of consumers alters the effects of resident assemblages on the local spread of an introduced macroalga. Oikos 118: 269-279
doi: 10.1111/j.1600-0706.2008.16955.x

Other publications:

Boero F, Foglini F, Fraschetti S, and the CoCoNet consortium (2016) CoCoNet: towards coast to coast networks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential. SCIRES-IT-SCientific RESearch and Information Technology 6 (Supplement 2016):1-95 doi: 10.2423/i22394303v6Sp1

Lauritano C, Bulleri F, Ravaglioli C, Tamburello L, Buia MC, Procaccini G (2015) Antioxidant and stress-related genes in the seagrass *Posidonia oceanica* in the vicinity of natural CO₂ vents at different nutrient conditions. PeerJ PrePrints 3:e1300 doi:10.7287/peerj.preprints.1060v1

Maggi E, Bertocci I, Bulleri F, Tamburello L, Benedetti-Cecchi L (2009) Venti anni di ecologia sperimentale lungo le coste di Calafuria (Livorno). Atti della Società Toscana di Scienze Naturali - Memorie serie B 116: 105-109

Tamburello L, Benedetti-Cecchi L (2007) Distribuzione spaziale di popolamenti di alghe ed invertebrati di costa rocciosa in relazione a cambiamenti nella composizione spettrale di eventi di disturbo. Atti del 6° Congresso Nazionale della Società Italiana di Biometria, pp.139-143