Matteo Nannini

Born in Pietrasanta (Italy) on 09/07/1986

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Current Position: Ph. D. student

Director of Studies: Dr Federica Ragazzola
Internal Supervisor(s): Dr Irene Olivè Samarra, Dr Gabriele Procaccini (advisor)
External Supervisor: Dr Nadine Schubert
Program: Open University – Stazione Zoologica, XXIV cycle

Affiliation:
Integrative Marine Ecology Department (EMI), Stazione Zoologica Anton Dohrn, Genoa Marine Centre, Piazza del Principe 4, 16126, Genoa, Italy

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Biology, Università di Pisa	Bachelor	2006-2013	Coralline algae ecology
Department of Biology, Università di Pisa	Master	2013-2018	Coralline algae ecology and climate change
Royal Society International Travel Awards, University of Portsmouth	Training	2016-2018	Coralline algae ecology and climate change
Stazione Zoologica Anton Dohrn, (Ischia Marine Centre)	Fellowship	2020-2021	Marine invertebrate ecology and climate change
Stazione Zoologica Anton Dohrn, (Sicily Marine Centre)	Fellowship	2021-2022	Study and monitor marine organisms associated with CO_2 emissions
Stazione Zoologica Anton Dohrn, (Genoa Marine Centre)	Ph.D.	2022-ongoing	Coralline algae ecology, physiology and climate change

Appointments and awards

2018: Best 'Speed talk' video category at "XII LTER Meeting and Congress" (28-30 May 2018, Bolzano, Italy). Title: Artificial algae to study climate change

Other matters relevant to scientific career

Member of International Coralline Algae Society (ICAS) (November 2024)
Member of British Phycological Society (October 2022)
Member of the Italian Association of Scientific Underwater Operators (A.I.O.S.S.) (October 2021)

Publications

Author of 16 publications on ISI-journals

List of publications of the last 10 years

Journal Papers

Nannini, M., Cerpelloni, M., Gaspar, T.L., Peña, V., Tuya, F., Peñas, J., Del Rio, J., Mourato, C.V., Silva, J., Santos, R., Ragazzola, F., Olivé, I., Schubert, N. (2025). Withstanding the heat: Resilience of free-living coralline algae to marine heatwaves. *Marine Environmental Research* 107538. https://doi.org/10.1016/j.marenvres.2025.107538

Bulleri, F., Schubert, N., Hall-Spencer, J.M., Basso, D., Burdett, H.L., Francini-Filho, R.B., Grall, J., Horta, P.A., Kamenos, N.A., Martin, S., **Nannini, M.**, Neves, P., Olivé, I., Peña, V., Ragazzola, F., Ribeiro, C., Rinde, E., Sissini, M., Tuya, F., Silva, J. (2025). Positive species interactions structure rhodolith bed communities at a global scale. *Biological Reviews* 100, 428–444. https://doi.org/10.1111/brv.13148.

Schubert, N., Tuya, F., Peña, V., Horta, P.A., Salazar, V.W., Neves, P., Ribeiro, C., Otero-Ferrer, F., Espino, F., Schoenrock, K., Ragazzola, F., Olivé, I., Giaccone, T., **Nannini, M.**, Mangano, M.C., Sará, G., Mancuso, F.P., Tantillo, M.F., Bosch-Belmar, M., Martin, S., Le Gall, L., Santos, R., Silva, J. (2024). "Pink power"—the importance of coralline algal beds in the oceanic carbon cycle. *Nature Communications* 15, 8282. https://doi.org/10.1038/s41467-024-52697-5

Arnoldi, I., Carraretto, D., Munari, M., **Nannini, M.**, Gambi, M.C., Cannavacciuolo, A., Della Torre, C., Gabrieli, P. (2024). Shifting microbial communities in acidified seawaters: insights from polychaetes living in the CO_2 vent of Ischia, Italy. *Integrative Zoology* 0, 1–16. https://doi.org/10.1111/1749-4877.12904

Ragazzola, F., **Nannini, M**., Raiteri, G., Bordone, A., Kolzenburg, R., Romanelli, E., Cerrati, G., Pacella, D., Gabellieri, L., Andreoli, F., Claps, G., Vasapollo, C., Marchini, A., Gazzola, F., Castelli, A., Langeneck, J., Chimienti, G., Pipitone, C., Montesanto, F., Lombardi, C. (2023). Early stage ecological communities on artificial algae showed no difference in diversity and abundance under ocean acidification. *Hydrobiologia*. https://doi.org/10.1007/s10750-023-05425-x

Fabbrizzi, E., Munari, M., Fraschetti, 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* doi: https://doi.org/10.1016/j.envres.2023.117218.

Sciutteri, V., Pedà, C., Longo, F., Calogero, R., Cangemi, G., Pagano, L., Battaglia, P., **Nannini, M.**, Romeo, T., Consoli, P. (2023). Integrated approach for marine litter pollution assessment in the

southern Tyrrhenian Sea: Information from bottom-trawl fishing and plastic ingestion in deep-sea fish. *Marine Pollution Bulletin*, 188, https://doi.org/10.1016/j.marpolbul.2023.114661.

Brundu, G., Cannavacciuolo, A., **Nannini, M.**, Somma, E., Munari, M., Zupo, V., Farina, S. (2022). Development of an efficient, noninvasive method for identifying gender year-round in the sea urchin *Paracentrotus lividus*. *Aquaculture* https://doi.org/10.1016/j.aquaculture.2022.739082

Signorini, S.G., Munari, M., Cannavacciuolo, A., **Nannini, M.**, Dolfini, D., Chiarore, A., Farè, F., Fontana, M., Caruso, D., Gambi, M.C., Della Torre, C. (2023). Investigation of the molecular mechanisms which contribute to the survival of the polychaete *Platynereis* spp. under ocean acidification conditions in the CO2 vent system of Ischia Island (Italy). *Frontiers in Marine Science* 9:1067900. doi: 10.3389/fmars.2022.1067900

Munari, M., Chiarore, A., Signorini, S.G., Cannavacciuolo, A., **Nannini, M.**, Magni, S., Binelli, A., Gambi, M.C., Della Torre, C. (2022). Surviving in a changing ocean. Tolerance to acidification might affect the susceptibility of polychaetes to chemical contamination. *Marine Pollution Bullettin* 181. doi:10.1016/j.marpolbul.2022.113857

Ragazzola, F., Marchini, A., Adani, M., Bordone, A., Castelli, A., Cerrati, G., Kolzenburg, R., Langeneck, L., di Marzo, C., **Nannini, M.**, Raiteri, G., Romanelli, E., Santos, M., Vasapollo, C., Pipitone, C., Lombardi, C. (2021). An intertidal life: Combined effects of acidification and winter heatwaves on a coralline alga (*Ellisolandia elongata*) and its associated invertebrate community. *Marine Environmental Research* https://doi.org/10.1016/j.marenvres.2021.105342

Ragazzola, F., Kolzenburg, R., Adani, M., Bordone, A., Cantoni, C., Cerrati, C., Ciuffardi, C., Cocito, S., Lucchetta, A., Montagna, P., **Nannini, M.**, Peirano, A., Raiteri, G., Lombardi, C. (2021). Carbonate chemistry and temperature dynamics in an alga dominated habitat. *Regional Studies in Marine Science* https://doi.org/10.1016/j.marenvres.2021.105342

Marchini, A., Ragazzola, F., Vasapollo, C., Castelli, A., Cerrati, G., Gazzola, F., Jiang, C., Langeneck, J., Manauzzi, M.C., Musco, L., **Nannini, M.**, Zekonyte, J., Lombardi, C., (2019). Intertidal Mediterranean coralline algae habitat is expecting a shift toward a reduced growth and a simplified associated fauna under Climate Change. *Frontiers in Marine Science*. doi:10.3389/fmars.2019.00106

Ragazzola, F., Raiteri, G., Fabbri, P., Scafè, M., Florio, M., **Nannini, M.**, Lombardi, C. (2017). Structural integrity of Ellisolandia elongata reefs: A mechanical approach to compare tensile strengths in natural and controlled environments. *Marine Ecology*. doi:10.1111/maec.12455

Lucey N.M., Lombardi C., Florio M., De Marchi L., **Nannini M**., Rundle S., Gambi M.C., Calosi P. (2016). An *in situ* assessment of local adaptation in a calcifying polychaete from a shallow CO2 vent system. *Evolutionary Applications* doi:10.1111/eva.12400

Nannini M., De Marchi L, Lombardi C., Ragazzola F. (2015). Effects of thermal stress on the growth of an intertidal population of *Ellisolandia elongata* (Rhodophyta) from N-W Mediterranean Sea. *Marine Environmental Research* http://dx.doi.org/10.1016/j.marenvres.2015.05.005