

Marco Uttieri



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Current Position: researcher (3rd level)

Current Affiliation:

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

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Naples “Parthenope”, Naples, Italy	Laurea (equiv. MSc)	1996-2001	Environmental Sciences (with a major in Oceanography)
Stazione Zoologica Anton Dohrn, Naples, Italy and Open University, Milton Keynes, UK	PhD	2001-2006	Dynamics of Marine Ecosystems
University of Naples “Federico II”, Naples Italy and CRdC-AMRA, Naples, Italy	Postdoc	2006-2007	Physical Oceanography
CoNISMA, Rome, Italy	Postdoc	2007-2008	Physical Oceanography
University of Naples “Parthenope”, Naples, Italy and CRdC-AMRA, Naples, Italy	Postdoc	2008-2009	Physical Oceanography
CLU Srl, Castelfranco Emilia (MO), Italy	Research Assistant	2009	Project Management
University of Naples “Parthenope”, Naples, Italy	Postdoc	2010-2012	Physical Oceanography

University of Naples “Parthenope”, Naples, Italy	Assistant Professor (non tenure)	2012-2015	Plankton Ecology
CoNISMa, Rome, Italy	Research Assistant	2015	Physical Oceanography
University of Naples “Parthenope”, Naples, Italy	Research Associate	2016	Physical Oceanography
Stazione Zoologica Anton Dohrn, Naples, Italy	Research Associate	2016-2017	Plankton Ecology
Stazione Zoologica Anton Dohrn, Naples, Italy	Researcher	2017-present	Plankton Ecology

Appointments and awards

2018: Editor of the volume "Trends in Copepod Studies – Distribution, Biology and Ecology", Nova Science Publishers, Inc., New York, 326 p. (2018).

2018: inclusion of the article Cianelli et al. (2017) “Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system” Scientific Reports, 7: 15868, doi: 10.1038/s41598-017-15880-x into the “Top 100 in Earth Science”.

2017-present: chair of the EUROBUS (Towards an EUROpean OBServatory of the invasive calanoid copepod *Pseudodiaptomus marinUS*) working group, designated as a formal ICES Training Workshop.

2014-present: member of the Editorial Board of *Frontiers in Marine Science*.

2012-2016: responsible of Research Units SP2_WP2_AZ1_UO06 (“Modelling of habitats and connectivity”) and SP5_WP2_AZ3_UO05 (“Implementation of coastal radar network”) in the framework of the “Flagship Project RITMARE – The Italian Research for the Sea” project, coordinated by the Italian National Research Council and funded by the Italian Ministry of Education, University and Research within the National Research Program 2011-2013.

2012-2015: P. I. (Coordinator and Scientific Responsible) of the “MOKA – Modelling and Observation of zooplankton organisms” (RBFR10VF6M) project, financed by the Italian Ministry of Education, University and Research in the framework of the FIRB – Programme “Futuro in Ricerca 2010”.

2005: Winner of “Award for Excellence” (World Association of Copepodologists) at 9th International Conference on Copepoda, (Hammamet, Tunisia. July 11-15, 2005).

Other

Teaching

a. y. 2017: Member of PhD council in the joint programme between Stazione Zoologica Anton Dohrn (Italy) and Open University (UK).

a. y. 2017: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate”– Department of Science and Technology, University of Naples “Parthenope” (Italy).

- a. y. 2016-2017: Professor of “Animal Biology and Physiology” (5 ECTS) – Course in Biological Sciences, Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2016: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2015-2016: Member of the Board of Examiners of “Oceanography” and “Transport and Diffusion in the Ocean and Atmosphere” – Department of Science and Technology, University of Naples “Parthenope” (Italy).
- April 2015: Cycle of lessons on HF radars (“Running a CODAR network – The AMRA-CoNISMa experience in the Gulf of Naples”, “Data validation”) in the framework of the “CODAR SeaSonde HF Radar Training” course, Naval Academy of Livorno (Italy).
- a. y. 2014-2015: Professor of “Biodynamics of the Water Column” (6 ECTS) – Course in Biological Sciences, Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2015: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2014: Cycle of seminars (1 ECTS) (“Introduction to plankton”, “Ecology of zooplankton”, “Swimming behaviour. I. Observations” and “Swimming behaviour. II. Models”) for the PhD Courses in “Sciences of the Sea, Earth and Climate” and “Sciences Applied to the Sea, the Environment and Territory” - Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2014: Member of the Board of the PhD Courses in “Sciences of the Sea, Earth and Climate” and “Sciences Applied to the Sea, the Environment and Territory” – Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2013-2014: Professor of “Biodynamics of the Water Column” (6 ECTS) – Master Course in Environmental Sciences, Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2013-2014: Member of the Board of Examiners of “Marine Biology”, “English” and “Zoology with Laboratory” – Department of Science and Technology, University of Naples “Parthenope” (Italy).
- a. y. 2013: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Environmental Sciences, University of Naples “Parthenope” (Italy).
- a. y. 2012-2013: Professor of “Fundamentals of Biology” (6 ECTS) – Course in Biological Sciences, Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).
- a. y. 2012-2013: Member of the Board of Examiners of “Ichthyology and Aquatic Resources”, “Zoology with Laboratory”, “Coastal Oceanography”, “Physical Oceanography”, “Transport and Diffusion in the Ocean and Atmosphere” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).
- a. y. 2012: Cycle of seminars (1 ECTS) (“Introduction to plankton”, “Ecology of zooplankton”, “Swimming behaviour. I. Observations” and “Swimming behaviour. II. Models”) for the PhD Course in “Sciences of the Sea, Earth and Climate” - Department of Environmental Sciences, University of

Naples “Parthenope” (Italy).

a. y. 2011-2012: Member of the Board of Commissioners of the PhD Course in “Methodologies of the Representation Systems of Animal and Environmental Semiotics” – University of Messina (Italy).

a. y. 2011-2012: Member of the Board of Examiners of “Coastal Oceanography” and “Physical Oceanography” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2009-2010: Lecture on “Coastal radars for the measurement of surface currents” – Course of Meteo-Oceanographic Measurements, Faculty of Sciences and Technology, University of Naples “Parthenope” (Italy).

a. y. 2008-2009: Member of the Board of Examiners of “Coastal Oceanography”, “Coastal Oceanography with Measurements” and “Transport and Diffusion in Geophysical Fluids” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2007-2008: Member of the Board of Examiners of “Coastal Oceanography”, “Coastal Oceanography with Measurements” and “Transport and Diffusion in Geophysical Fluids” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2007-2008: Teacher of “Ecodynamics of coastal and transition aquatic systems 2” (0.125 ECTS) for the I level University Master in “Eco-Governance of Lagoon Ecosystems of Adriatic Basin – Ecology of Transitional Aquatic Systems”, Module of “Geomorphology, Hydrology and Chemistry-Physics of EAT” – University of Salento (Italy).

Students’ Supervision

Supervisor of two PhD students, two post-doctoral researchers, one research stage student, one MSc student.

Editorial Commitments

- Edited Books

Editor of the volume “Trends in Copepod Studies – Distribution, Biology and Ecology”, Nova Science Publishers, Inc., New York, 326 p. (2018).

- Editorial Board

Member of the Editorial Board of *Frontiers in Marine Science*.

- Journal Reviewing Activity

Reviewer (>35 reviewed articles) for the following Journal: *Adaptive Behaviour*, *Aquatic Biology*, *Aquatic Ecology*, *Aquatic Toxicology*, *Dynamics of Atmospheres and Oceans*, *Ecological Modelling*, *Frontiers in Marine Science*, *Hydrobiologia*, *ICES Journal of Marine Science*, *Journal of Aquatic Research and Marine Sciences*, *Journal of Experimental Marine Biology and Ecology*, *Journal of Fish Biology*, *Journal of Marine Systems*, *Journal of Plankton Research*, *Marine Biology*, *Mathematical Biosciences*, *PLOS ONE*, *Remote Sensing*, *Science of the Total Environment*.

Publications

Author of 32 publications indexed in Scopus (*h*-index: 13), of which 23 papers in ISI Journals, 1 edited book and 8 book chapters (as of June 25, 2018)

List of publications of the last 10 years:

Peer-reviewed publications:

- Uttieri M.**, Paffenhöfer G.-O.A., Mazzocchi M. G. (2008) Prey capture in *Clausocalanus furcatus* (Copepoda: Calanoida). The role of swimming behaviour. *Marine Biology*, 153 (5): 925-935, doi:10.1007/s00227-007-0864-0
- Uttieri M.**, Brown E. R., Boxshall G. A., Mazzocchi M. G. (2008) Morphology of antennular sensors in *Clausocalanus furcatus* (Copepoda: Calanoida). *Journal of the Marine Biological Association of the United Kingdom*, 88 (3): 535-541, doi:10.1017/S0025315408000854
- Cianelli D., **Uttieri M.**, Strickler J. R., Zambianchi E. (2009) Zooplankton encounters in patchy particle distributions. *Ecological Modelling*, 220 (5): 596-604, doi:10.1016/j.ecolmodel.2008.10.015
- Uttieri M.**, Sabia L., Cianelli D., Strickler J. R., Zambianchi E. (2010) Lagrangian modelling of swimming behaviour and encounter success in co-occurring copepods: *Clausocalanus furcatus* vs. *Oithona plumifera*. *Journal of Marine Systems*, 81 (1-2): 112-121, doi:10.1016/j.jmarsys.2009.12.004
- Ziarek J. J., Nihongi A., Nagai T., **Uttieri M.**, Strickler J. R. (2011) Seasonal adaptations of *Daphnia pulicaria* swimming behaviour: the effect of water temperature. *Hydrobiologia*, 661 (1): 317-327, doi:10.1007/s10750-010-0540-0
- Uttieri M.**, Cianelli D., Buongiorno Nardelli B., Buonocore B., Falco P., Colella S., Zambianchi E. (2011) Multiplatform observation of the surface circulation in the Gulf of Naples (Southern Tyrrhenian Sea). *Ocean Dynamics*, 61 (6): 779-796, doi:10.1007/s10236-011-0401-z
- Serafino F., Lugni C., Ludeno G., Arturi D., **Uttieri M.**, Buonocore B., Zambianchi E., Budillon G., Soldovieri F. (2012) REMOCEAN: a flexible X band radar system for sea state monitoring and surface current estimation. *IEEE Geoscience and Remote Sensing Letters*, 9 (5): 822-826, doi:10.1109/LGRS.2011.2182031
- Uttieri M.**, Cianelli D., Zambianchi E. (2013) Behaviour-dependent predation risk in swimming zooplankters. *Zoological Studies*, 52: 32, doi:10.1186/1810-522X-52-32
- Sabia L., **Uttieri M.**, Soussi S., Schmitt F. G., Zagami G., Zambianchi E. (2014) *Pseudodiaptomus marinus* Sato, 1913, a new invasive copepod in Lake Faro (Sicily): observations on the swimming behaviour and the sex-dependent responses to food. *Zoological Studies*, 53: 49, doi:10.1186/s40555-014-0049-8
- Cianelli D., Falco P., Iermano I., Mozzillo P., **Uttieri M.**, Buonocore B., Zambardino G., Zambianchi E. (2015) Inshore/offshore water exchange in the Gulf of Naples. *Journal of Marine Systems*, 145: 37-52, doi:10.1016/j.jmarsys.2015.01.002
- Sabia L., Zagami G., Mazzocchi M. G., Zambianchi E., **Uttieri M.** (2015) Spreading factors of a globally invading coastal copepod. *Mediterranean Marine Science*, 16 (2): 460-471, doi:10.12681/mms.1154
- Bellomo L., Griffa A., Cosoli S., Falco P., Gerin R., Iermano I., Kalampokis A., Kokkini Z., Lana A.,

- Magaldi M. G., Mamoutos I., Mantovani C., Marmain J., Potiris E., Sayol J. M., Barbin Y., Berta M., Borghini M., Bussani A., Corgnati L., Dagneaux Q., Gaggelli J., Guterman P., Mallarino D., Mazzoldi A., Molcard A., Orfila A., Poulain P.-M., Quentin C., Tintoré J., **Uttieri M.**, Vetrano A., Zambianchi E., Zervakis V. (2015) Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience. *Journal of Operational Oceanography*, 8(2): 95-107, doi: 10.1080/1755876X.2015.1087184
- Falco P., Buonocore B., Cianelli D., De Luca L., Giordano A., Iermano I., Kalampokis A., Saviano S., **Uttieri M.**, Zambardino G., Zambianchi E. (2016) Dynamics and sea state in the Gulf of Naples: potential use of high-frequency radar data in an operational oceanographic context. *Journal of Operational Oceanography*, 9(S1): s33-s45, doi: 10.1080/1755876X.2015.1115633
- Kalampokis A., **Uttieri M.**, Poulain P.-M., Zambianchi E. (2016) Validation of HF radar-derived currents in the Gulf of Naples with Lagrangian data. *IEEE Geoscience and Remote Sensing Letters*, 13(10): 1452-1456, doi: 10.1109/LGRS.2016.2591258
- Nihongi A., Ziarek J. J., **Uttieri M.**, Sandulli R., Zambianchi E., Strickler J. R. (2016) Behavioural interseasonal adaptations in *Daphnia pulex* (Crustacea: Cladocera) as induced by predation infochemicals. *Aquatic Ecology*, 50(4): 667-684, doi: 10.1007/s10452-016-9585-0
- Sabia L., Di Capua I., Percopo I., **Uttieri M.**, Amato A. (2017) ITS2 in calanoid copepods: reconstructing phylogenetic relationships and identifying a newly introduced species in the Mediterranean. *The European Zoological Journal*, 84(1): 104-114, doi: 10.1080/11250003.2016.1276639
- Cianelli D., D'Alelio D., **Uttieri M.**, Sarno D., Zingone A., Zambianchi E., Ribera d'Alcalà M. (2017) Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system. *Scientific Reports*, 7: 15868, doi: 10.1038/s41598-017-15880-x
- [Article included in the “Top 100 in Earth Science” by Scientific Reports]
- Pastore R., **Uttieri M.**, Bianco G., Ribera d'Alcalà M., Mazzocchi M. G. (2018) Distinctive diffusive properties of motion in planktonic copepods swimming in different environmental conditions. *European Physical Journal E*, 41: 79, doi: 10.1140/epje/i2018-11688-5

Book Chapters:

- Nihongi A., Ziarek J. J., Nagai T., **Uttieri M.**, Zambianchi E., Strickler J. R. (2011) *Daphnia pulex* hijacked by *Vibrio cholera*: altered swimming behaviour and predation risk implications. In: G. Kattell (Ed.) “Zooplankton and Phytoplankton: Types, Characteristics and Ecology”, pp. 181-192. Nova Science Publishers, Inc., New York, ISBN: 978-1-61324-508-8
- Cianelli D., **Uttieri M.**, Buonocore B., Falco P., Zambardino G., Zambianchi E. (2012) Dynamics of a very special Mediterranean coastal area: the Gulf of Naples. In: G. S. Williams (Ed.) “Mediterranean Ecosystems: Dynamics, Management and Conservation”, pp. 129-150. Nova Science Publishers, Inc., New York, ISBN: 978-1-61209-146-4
- Cianelli D., **Uttieri M.**, Zambianchi E. (2012) Individual Based Modelling of zooplanktonic organisms. In: W.-J. Zhang (Ed.) “Ecological Modelling”, pp. 83-96. Nova Science Publishers, Inc., New York, ISBN: 978-1-61324-567-5
- Uttieri M.**, Zambianchi E. (2012) On the fractal characterisation of zooplankton motion: applications and perspectives. In: E. W. Mitchell and S. R. Murray (Eds.)

“Classification and Application of Fractals: New Research”, pp. 113-129. Nova Science Publishers, Inc., New York, ISBN: 978-1-61324-104-2

Cianelli D., **Uttieri M.**, Guida R., Menna M., Buonocore B., Falco P., Zambardino G., Zambianchi E. (2013) Land-based remote sensing of coastal basins: use of an HF radar to investigate surface dynamics and transport processes in the Gulf of Naples. In: E. Alcântara (Ed.) “Remote Sensing: Techniques, Applications and Technologies”, pp. 1-30. Nova Science Publishers, Inc., New York, ISBN: 978-1-62417-140-6

Uttieri M., Sandulli R., Spezie G., Zambianchi E. (2014) From small to large scale: a review of the swimming behaviour of *Daphnia*. In: M. El-Doma (Ed.) “*Daphnia*: Biology and Mathematic Perspectives”, pp. 309-322. Nova Science Publishers, Inc., New York, ISBN: 978-1-63117-028-7

Sabia L., **Uttieri M.**, Zagami G., Zambianchi E. (2014) Swimming, feeding and mating behaviour in copepods: a brief review. In: L. Seuront (Ed.) “Copepods: Diversity, Habitat and Behavior”, pp. 121-144. Nova Science Publishers, Inc., New York, ISBN: 978-1-63117-846-7

Uttieri M. (2018) Trends in copepod studies. In: M. Uttieri (Ed.) “Trends in Copepod Studies – Distribution, Biology and Ecology”, pp. 1-11. Nova Science Publishers, Inc., New York, ISBN: 978-1-53612-593-1

Book:

Uttieri M. (Ed.) (2018) “Trends in Copepod Studies – Distribution, Biology and Ecology”. Nova Science Publishers, Inc., New York, 326 p., ISBN: 978-1-53612-593-1