

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Surname(s) / First name(s)	Diego Borme
Address(es)	Viale Raffaello Sanzio, 19; 34128 Trieste (TS)
Telephone(s)	office: +39-040-2249726 o +39 040 2249738; cell. +39-320-3747449
Fax(es)	+39-040-2249770
E-mail(s), Web address(s)	dborme@ogs.trieste.it; diegoborme@hotmail.com
Nationality(-ies)	Italian
Date of birth	20.11.1973
Identification number from Records of Scientific Workers	

**WORK EXPERIENCE**

• Dates (from – to)	From October 2010 until now
Name and address of employer	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale) - Oceanography
Type of business or sector	Scientific investigation
Occupation or position held	Research Scientist with fixed-term contract
Main activities and responsibilities	Trophic ecology of marine planktivorous fish, Mesozooplankton, Fishery, sampling at sea

• Dates (from – to)	From March 2006 until September 2010
Name and address of employer	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale) - Oceanography
Type of business or sector	Scientific investigation
Occupation or position held	Research Grant
Main activities and responsibilities	Diet of planktivorous fish, Mesozooplankton, Fishery, sampling at sea

• Dates (from – to)	From November 2002 until December 2006
Name and address of employer	Laboratory of Marine Biology of Trieste
Type of business or sector	Scientific investigation
Occupation or position held	Ph.D. student
Main activities and responsibilities	Diet of planktivorous fish, Mesozooplankton, sampling at sea

• Dates (from – to)	From September 2000 until May 2001
Name and address of employer	University of Trieste, Faculty of Sciences, Department of Biology
Type of business or sector	Scientific investigation
Occupation or position held	Scientific Collaborator with fixed-term contract
Main activities and responsibilities	Census of fishing vessels, fishing gears and relative production

• Dates (from – to)	From February 2000 until October 2002
Name and address of employer	Laboratory of Marine Biology of Trieste
Type of business or sector	Scientific investigation
Occupation or position held	Scientific Collaborator with fixed-term contract

Main activities and responsibilities	Microzooplankton analysis, sampling at sea
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### EDUCATION

Date	10.07.1999
Place of education	Trieste, Italy
Name and type of organisation providing education	University of Trieste, Faculty of Sciences, Department of Biology
Title or qualification awarded	Academic degree in Natural Sciences. Leaving certificate: 104/110

Date	20.04.2006
Place of education	Trieste, Italy
Name and type of organisation providing education	University of Trieste, Faculty of Sciences, Department of Biology
Title or qualification awarded	Ph.D. (doctorate) in Biomonitoring Methods of the Environmental Alteration

### TRAINING

Year	2000; 2001
Place of training	Trieste (Italy)
Name and type of organisation providing training	ARIES special agency of the Chamber of Commerce of Trieste
Principal subjects/Occupational skills covered	<ul style="list-style-type: none"> <li>• Training workshop on the promotion and commercialization of fishery and aquaculture products</li> <li>• Training workshop on marine pollution and biotoxins</li> <li>• Training workshop on fish stock management</li> <li>• Training workshop on the statistical treatment of fishery and aquaculture data</li> <li>• Training workshop on the underwater visual census of fish community</li> </ul>

Year	2009
Place of training	Trieste (Italy)
Name and type of organisation providing training	HMAP International Summer School
Principal subjects/Occupational skills covered	When humanities meet ecology: historic changes in Mediterranean and Black Sea marine biodiversity and ecosystems since the Roman period until nowadays. Languages, methodologies and perspectives.

Year	2011
Place of training	Casalecchio di Reno (Bologna) (Italy)
Name and type of organisation providing training	Department of Public Health, AUSL agency of Bologna, Emilia-Romagna Regional Health Service
Principal subjects/Occupational skills covered	Systematics and identification of fish species (4th edition)

Year	2012
Place of training	Split (Croatia)
Name and type of organisation providing training	FAO-ADRIAMED Project
Principal subjects/Occupational skills covered	AdriaMed Study Group on "Daily Egg Production Method (DEPM) for the appraisal of small pelagic fisheries resources in the Adriatic Sea"

Year	2012
Place of training	Ancona (Italy)
Name and type of organisation providing training	FAO-ADRIAMED Project
Principal subjects/Occupational skills covered	AdriaMed Study Group on "Daily Egg Production Method (DEPM) for the appraisal of small pelagic fisheries resources in the Adriatic Sea"

Year	2012
Place of training	Ljubljana (Slovenija)
Name and type of organisation providing training	FAO-ADRIAMED Project
Principal subjects/Occupational skills covered	AdriaMed Study Group on "Daily Egg Production Method (DEPM) for the appraisal of small pelagic fisheries resources in the Adriatic Sea"

**PERSONAL SKILLS AND COMPETENCIES**

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Mother tongue(s)	Italian
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Other language(s)

Language	Croatian
Speaking	excellent
Writing	excellent
Understanding (listening and reading)	excellent

Language	English
Speaking	good
Writing	good
Understanding (listening and reading)	good

**SOCIAL SKILLS AND COMPETENCIES**

<p>Communication, team work and international scientific cooperation.</p> <ul style="list-style-type: none"> <li>• Didactic activity at primary schools, high schools on the marine plankton</li> <li>• Summer courses for university students</li> <li>• Seminars for fishermen</li> <li>• Co-examiner of 4 degrees and one PhD on marine biology themes</li> </ul>
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**ORGANISATIONAL SKILLS AND COMPETENCIES**

<p>Organization of sampling activity at sea (167 days spent at sampling on research/fishing vessels). Interviewing fishermen. Project preparation.</p>
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**TECHNICAL SKILLS AND COMPETENCIES**

<p>Operation of plankton nets, fishing set nets, long-lines and other special equipment for sampling at sea; use of optical and inverted microscopes and other laboratory instruments; computer skills (Word, Excel, Powerpoint, Primer, Internet)</p>
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ARTISTIC SKILLS AND COMPETENCIES

OTHER SKILLS AND COMPETENCIES

DRIVING LICENCE(S)

ADDITIONAL INFORMATION

ANNEXES

DATE

SIGNATURE

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### Participation to projects:

- 1999-2000 Census of fish species in inland waters of the Friuli Venezia Giulia (Italy).
- 2000-2001 Proposal for a Project on the management of fish stocks of the Northern Adriatic Sea in cooperation with Slovenia and Croatia. Main activities: census of fishing vessels, description of the fishing activities, assessment of fishing effort, estimation of fishery production in the North-eastern Adriatic Sea.
- 2000-2002 “Interreg II” (Monitoring project of the Northern Adriatic Sea), “Interreg III” (Monitoring project of the Northern Adriatic Sea) e “M.A.T.” (Mucilage in the Adriatic and Tyrrhenian Seas). Main activities: analysis of the microzooplankton in the Northern Adriatic Sea.
- 2002-2003 “Fish & Fronts” - Regional Collaboration in Environmental Monitoring and Forecasting in the Northern Adriatic (2002-2005), “Bioenergetics of small pelagic fish in the Adriatic Sea”; cooperation among the Laboratory of Marine Biology of Trieste, the Great Lakes Environmental Research Laboratory (NOAA- Ann Arbor and Muskegan- MI) and the IRPEM-CNR (Ancona) Institut. Main activities: study of diet, feeding rhythm and energy content of the European anchovy; study of the distribution of the mesozooplankton at frontal systems of the Po river (Adriatic Sea).
- 2006 “EcoMADR (Integration of knowledge on the Northern Adriatic Marine Ecosystem), Interreg IIIA Italy-Slovenia 2000-2006. Main activities: study of the trophic ecology of anchovy and sardine and the mesozooplanktonic community of the Gulf of Trieste.
- 2007-2009 Participation as sub-contractor to the project “SARDONE” (Improving assessment and management of small pelagic species in the Mediterranean - Proposal/Contract no.: FP6-44294 -Sixth framework programme, Priority 8.1, Policy-oriented research: scientific support to policies). Main activities: study of the trophic ecology of larval and juvenile stages of anchovy and sardine in the Adriatic Sea, focusing on the relationships between mesozooplankton and small pelagic fish.
- 2007-2009 “Trezze of the Adriatic Sea: study of some areas of particular environmental value to exploit the local fishing resources”. Main activities: characterization of fish and decapod crustaceans assemblages at the rocky outcrops of the Gulf of Trieste.
- 2010 Technical advice to the project PIM08 – Fishing Intensity Offshore Adriatic (Characteristics and effort of fishing activities in three Adriatic sites of ENI interest). Main activities: census of fishing vessels, description of fishing activities, estimation of fishing effort and its impact.

- 2010-2011 Participation to the project "ENEL Contract n. 1400015684 Pre-injection Off-Shore Baseline Survey". Main activities: sampling and sorting of the macrozoobenthos.
- 2009-2012 Participation to the project "Monitoring of the submerged artificial berriers of Lignano Sabbiadoro", "ADRI.BLU" (PIC Interreg IIIA Cross-border Adriatic ), in cooperation with ARPA FVG. Main activities: characterization of fish and decapod crustaceans assemblages.
- 2012 "TRECORALA -Trezze and coralligenous formations of the Northern Adriatic Sea", cross-border Inter-regional project between Italy and Slovenia. Main activities: characterization of fish and decapod crustaceans assemblages.

#### Posters and presentations:

- 05.09.1999 The art of fishing with the long-line. (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 04-09.06.2001 Temporal variation of tintinnid ciliates in the Northern Adriatic Sea. (poster at the 32nd Congress of the Italian Society of Marine Biology -Numana, Italy)
- 03.09.2002 General aspects of the fishery along the western coasts of Istria. (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 02.09.2003 Problems of fishery: the Adriatic case. (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 07.09.2004 Biology and fishery of the anchovy. (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 11.05.2005 Study of the diet of *Engraulis encrasicolus* and *Sardina pilchardus* caught with lampara in the Gulf of Trieste. (poster at the 36th Congress of the Italian Society of Marine Biology -Trieste, Italy)
- 19.05.2005 Seasons, gears and fishery products of the Northern Adriatic Sea. (Meeting supported by the Circolo di Cultura Istro-Veneta "Istria": The Northern Adriatic. Instrument of socio-economic cross-border integration)
- 14.09.2005 Fishing of the small pelagic fish in the Adriatic Sea. (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 05.05-23.06.2006 Seminars for fishermen supported by the project "Fish.log": Opportunities and prospects for development offered by the central marketing of fish products; Producer organizations as a tool for fisheries management and marketing of fishery products; Marketing strategy and market opportunities through cooperation with Italian SME-European integration; The fish processing as a new opportunity for marketing of fish products.
- 06.09.2006 The biology of the small pelagic fish in the Adriatic Sea. (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 12.09.2007 Biology and management of the small pelagic fish in the Adriatic Sea (summer seminar at the academic course on Hydrobiology and Fish Farming)
- 28.01.2008 Stomach content in small pelagic fish - techniques and analysis. (SARDONE workshop on anchovy and sardine feeding. Barcelona)
- 22.05.2008 Characteristics of the fishery in Istria and Kvarner. (meeting on "Management of shared stocks: italian, slovenian and croatian fishermen and the institutions" at "Sea and Karst", 14th Congress of agriculture, fishery and forestry, Muggia 21-25.05.08)
- 13.06.2008 Feeding of *Sardina pilchardus* in the Gulf of Trieste (Northern Adriatic Sea): first estimation of daily ration and description of the diet. (poster at the 39th Congress of the Italian Society of Marine Biology, Cesenatico (Italy))

- 28.04.2009 Characteristics of the fishery in Gulf of Rijeka and in the Kvarner: fishing techniques and target species. (Meeting supported by the Circolo di Cultura Istro-Veneta "Istria")
- 31.03 - 03.04.2009 WP 3 Ecology of late larvae and juveniles, Task 3.2 Feeding studies. SARDONE workshop. First year report. Barcelona.
- 05.05.2009 Characteristics of the fishery in Gulf of Rijeka and in the Kvarner. (Meeting supported by the Circolo di Cultura Istro-Veneta "Istria"). Opatija (Croatia).
- 22-25.09.2009 What is there to eat for small pelagic fish along the western Adriatic coast? Zooplankton assemblages collected by two different nets off the Po river delta and in the Gulf of Manfredonia (Italy). (poster at the 19<sup>th</sup> Congress of the Italian Association of Oceanology and Limnology A.I.O.L., Venezia, Italy)
- 22-25.09.2009 Diet of *Sardina pilchardus* in the Gulf of Trieste (Adriatic Sea). (poster at the 19<sup>th</sup> Congress of the Italian Association of Oceanology and Limnology A.I.O.L., Venezia, Italy)
- 22-25.09.2009 Preliminary investigation on the motile fauna of rock outcrop as estimated by trammel net experimental fishing (northern Adriatic Sea). (poster at the 19<sup>th</sup> Congress of the Italian Association of Oceanology and Limnology A.I.O.L., Venezia, Italy)
- 22.12.2011 Meeting/tasting with title "From sea to saucepan" organized by "The good cooking" supported by the Regional Ministry of Productive Activities and Tourism. Trieste, Italy
- 17-18.04.2012 "Fishery and climate change" seminar for the Swedish high school - Short course. Trieste, Italy
- 11.05.2012 "Which kind of fish to catch?" popular meeting on the utilization of poor sea food. Trieste, Italy

## Publications

Pizzul E., Battistella S., Borme D., Cassetti P. (2002) Comparison on morphological and genetic basis of two populations of *Alburnus alburnus* (Osteichthyes, Cyprinidae) of the Low Friulian Plain and the Danube Basin. *Ichthyos*, 17 (1): 9-20.

Milani L., Borme D., Vettach E., Fonda Umani S. (2002) Variazioni temporali dei ciliati tintinnidi nell'Adriatico settentrionale (Temporal variations of tintinnid ciliates in the northern Adriatic Sea.). *Biologia Marina Mediterranea*, 9 (1): 427-429.

Borme D., Kutin S., Smešny A., Orel G. (2003) Stime preliminari della produzione alieutica sulla costa occidentale dell'Istria (Croazia). (Preliminary evaluation of the fisheries production on the Western Coast of the Istrian Peninsula -Croatia). *Hydrores*, anno XX, n°24 supplemento: 3-25.

Borme D., Kutin S., Smešny A., Orel G. (2003) Stime preliminari della produzione alieutica nel Golfo di Fiume e nel Quarnero (Croazia). (Preliminary evaluation of the fisheries production in the Rijeka Gulf and the Kvarner -Croatia). *Hydrores*, anno XX, n°24 supplemento: 39-61.

Fonda Umani S., Milani L., Borme D., de Olazabal A., Parlato S., Precali R., Kraus R., Lučić D., Njire J., Totti C., Romagnoli T., Pompei M., Cangini M. (2005) Inter-annual variations of planktonic food webs in the northern Adriatic Sea. *Science of the Total Environment*, 353: 218-231.

- Tirelli V., Borme D., Zollet T., Costantini M., De Olazabal A., Cigar M., Fonda Umani S. (2005) Osservazioni sui contenuti stomacali di *Engraulis encrasicolus* e *Sardina pilchardus*, catturati con lampara nel Golfo di Trieste (Observations on the stomach content of *Engraulis encrasicolus* and *Sardina pilchardus* caught by "lampara" in the Gulf of Trieste). *Biologia Marina Mediterranea*, 13: 904-906.
- Borme D. (2005) Tempi, strumenti e pescato dell'Alto Adriatico (Seasons, gears and fishery products of the Northern Adriatic Sea). In: L'Alto Adriatico. Strumento d'integrazione socio-economica transfrontaliera (The Northern Adriatic. Instrument of socio-economic cross-border integration). *Atti del Circolo di Cultura Istro-Veneta "Istria"*, p: 49-64.
- Tirelli V., Borme D., Tulli F., Cigar M., Fonda Umani S., Brandt S.B. (2006) Energy density of *Engraulis encrasicolus* (Linneus, 1758) in the Adriatic Sea (northeastern Mediterranean). *Journal of Fish Biology*, 68: 982-989.
- Borme D. (2006) Tempi, strumenti e produzioni della pesca nell'Alto Adriatico (Seasons, gears and fishery's production in the northern Adriatic Sea). In: *Circolo di Cultura Istro-Veneta "Istria"* (ed.) *Civiltà del mare in Istria*, p: 151-167.
- Borme D., Voltolina F. (2006) On the occurrence of ribbon fish *Trachipterus trachipterus* (Gmelin, 1789) in the Gulf of Trieste (Northern Adriatic Sea). *Annales, Series historia naturalis*, 16 (2): 181-188.
- Borme D. (2007) Pesca del pesce azzurro nel Golfo di Trieste (Small pelagic fish fishery in the Gulf of Trieste). In: *Pesca e gestione alieutica del Golfo di Trieste (Fishing and fishery management in the Gulf of Trieste)*. *Atti del Circolo di Cultura Istro-Veneta "Istria"*, p: 17-32.
- La Mesa M., Borme D., Tirelli V., Di Poi E., Legovini S., Fonda Umani S. (2008) Feeding ecology of the transparent goby *Aphia minuta* (Pisces, Gobiidae) in the northwestern Adriatic Sea. *Scientia Marina*, 72 (1): 99-108.
- Borme D., Legovini S., De Olazabal A., Fonda Umani S., Tirelli V. (2008) Alimentazione di *Sardina pilchardus* nel Golfo di Trieste (Adriatico settentrionale): prima stima del fabbisogno alimentare e descrizione della dieta (Feeding of *Sardina pilchardus* in the Gulf of Trieste [Northern Adriatic]: first estimation of daily ration and diet description). *Biologia Marina Mediterranea*, 15 (1): 318-319.
- Legovini S., Borme D., Tulli F., De Olazabal A., Tirelli V. (2008) Risultati preliminari sul contenuto energetico di *Sardina pilchardus* nel Golfo di Trieste (Adriatico settentrionale) (Preliminary results on the energetic content of *Sardina pilchardus* in the Gulf of Trieste [Northern Adriatic]). *Biologia Marina Mediterranea*, 15 (1): 332-333.
- Borme D., Tirelli V., Brandt S.B., Fonda Umani S., Arneri E. (2009) Diet of *Engraulis encrasicolus* in the northern Adriatic Sea (Mediterranean): ontogenetic changes and feeding selectivity. *Marine Ecology Progress Series*, 392: 193-209.
- Borme D., Cibic T., Caressa S., Ciriaco S., Falace A., Faresi L., Gordini E., Odorico R., Marocco R., Poloniato D., Kaleb S. (2010) Trezze o "grebeni": biotopi e geotopi dell'Alto Adriatico ("Trezze" or "grebeni": biotops and geotops of the Northern Adriatic). *Regione Friuli Venezia Giulia*, 245 pp.

- Costalago Meruelo D., Borme D., Tirelli V., Alvarez I., De Olazabal A., Palomera Laforga I. (2010) An inter-regional comparison of the diet of European anchovy juveniles in the Adriatic Sea and in the Gulf of Lions. *Comm. int. Mer Médit.*, 39: 481.
- MedSudMed (2011) Identification sheets of early life stages of bony fish (Western Libya, Summer 2006). GCP/RER/ITA/MSM-TD-18. MedSudMed Technical Documents No 18: 251 pp. The following authors contributed to the preparation of the document: Cuttitta, A., Zgozi, S., Bonanno, A., Basitone, G., Turki, A., Patti, B., Gmati, H., Buscaino, G., Hamza, M., Caruana, L., Patti, C., Mazzola, S., Tirelli V., Borme D., Amato M., Borghi M.
- Borme D., Cibic T., Ciriaco S., Falace A., Faresi L., Gordini E., Kaleb S., Odorico R., Poloniato D., Tempesta M. (2011) Le trezze dell'alto Adriatico: studio preliminare degli affioramenti rocciosi denominati S. Pietro e Bardelli ("Trezze" of the Northern Adriatic: preliminary study of the rocky outcrops named S. Pietro and Bardelli). *Biologia Marina Mediterranea*, 18 (1): 240-241.
- Lorenzon S., Martinis M., Borme D., Ferrero E.A. (2012) Hemolymph parameters as physiological biomarkers for monitoring the effects of fishing and commercial maintenance methods in *Squilla mantis* (Crustacea, Stomatopoda). *Fisheries Research*, 137: 9-17. DOI information: 10.1016/j.fishres.2012.08.015
- Borme D., Tirelli V., Palomera I. (2013) Feeding habits of European pilchard late larvae in a nursery area in the Adriatic Sea. *Journal of Sea Research*, in press.