

Personal information

First name(s) / Surname(s) **Ana Castelli**

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ana.bulatovic24@gmail.com

Date of birth 29/11/1976

Nationality Montenegrin

Desired employment / Occupational field Natural science

Work experience

Dates 15/09/2007 →

Occupation or position held Associate in research

Main activities and responsibilities Scientific research in the field of marine chemistry, sediment ecology, oceanography; activities related to various national and international research and applicable projects that improve the knowledge about the ecological status of the Montenegrin coastal sea and the Adriatic as a whole, its protection and sustainable development.

Name and address of employer Institute of Marine Biology, University of Montenegro, Laboratory for Marine Chemistry and Oceanography
Dobrota bb, 85330 Kotor, Montenegro
+382 32 334 570 tel/fax
www.ucg.ac.me/ibm

Type of business or sector Science and research

Education and training

Education

Dates ongoing studies (2012 →)

Title of qualification PhD student of the Doctoral studies in Sustainable development and the environment

Name and type of organisation providing education and training Singidunum University - Faculty of Applied Ecology FUTURA
Belgrade (Serbia)

Dates 2012

Title of qualification awarded Degree of Master (MSc)

Name and type of organisation providing education and training University of Montenegro, Faculty of Metallurgy and Technology – Department of Chemical Technology, Environmental Course.
Thesis title: "Determination of heavy metals and their distribution in marine sediments in the coastal zone of the south-eastern Adriatic, by application EDPXRF method"

Level in National classification Level VII (ISCED 2011)

Dates 2005

Title of qualification awarded Graduate engineer in Inorganic Technology

Name and type of organisation providing education and training University of Montenegro, Faculty of Metallurgy and Technology, Department of Inorganic Technology

Level in National classification Level VI (ISCED 2011)

- Training**
- Training Programme on Regional Ocean Governance for Mediterranean and Eastern European Countries - „Towards a Holistic Maritime Policy” ,organized by International Ocean Institute (IOI) – Malta, 12.11-14.12.2007, Malta
 - On-field training: Bathymetry, oceanography and sedimentology – oceanographic cruise with Italian research vessel Urania – South Adriatic 21-25.04.2009
 - Training on MED POL eutrophication monitoring by CNR ISMAR Ancona, Italy; Institute of Marine Biology, Kotor, Montenegro 19 - 21.05.2009
 - Training course: “Urban wastewater: Integrated Management of Wastewater Collection and Treatment Systems” – Horizon 2020 Capacity Building/Mediterranean Environment Programme, Budva, Montenegro, 18 - 21.04.2011
 - Training on radiochemical analysis of environmental samples. Analysis of marine sediments (macro, micro and trace elements) by XRF. CNR ICIS (National Research Council-Institute of Inorganic Chemistry and of the Surface) in Padua, Italy, 15.04 - 10.05.2008 and 5.10 -22.12.2008
 - Training on analysis of molecular biomarkers - National Institute of Biology, Marine Biology Station – Piran, Slovenia, 28.9 – 5.10.2009.
 - UNEP MEDPOL 2011 Training course on the analysis of trace elements in environmental samples; International Atomic Energy Agency - Environment Laboratories, Marine Environment Laboratories Monaco, Principality of Monaco, 5 - 16.12. 2011.
 - Training School in Sustainable Blue Growth in South East Europe, Trieste, Italian national Institute of Oceanography and Applied Geophysics, OGS, Italy, 14-18 July 2014, covered by Robert Bosch Stiftung Foundation.
 - "A Practical introduction to marine monitoring hardware and procedures", organized by Italian national Institute of Oceanography and Applied Geophysics – OGS, Trieste, Italy within the FP7 project FixO3, 14-17.09.2015.
 - Training in the domain of data management adopted for SeaDataNet and Emodnet projects, hosted by the Italian national Institute of Oceanography and Applied Geophysics, OGS, Italy, 10/11/2014 – 10/02/2015.
 - Working visit: Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Serbia, 21-31, July 2015.
 - Working visit: Croatian Geological Survey, Zagreb, Croatia, 18.09.2015.

Personal skills

Mother tongue(s)

Serbian

Other language(s)

English

Italian

UNDERSTANDING				SPEAKING				WRITING	
Listening		Reading		Spoken interaction		Spoken production			
C1/C2	Proficient user	C1/C2	Proficient user	B1/B2	Independent user	B1/B2	Independent user	B1/B2	Independent user
A1/A2	Basic user	A1/A2	Basic user	A1/A2	Basic user	A1/A2	Basic user	A1/A2	Basic user

Common European Framework of Reference for Languages

Technical skills and competences

Laboratory practice and field work upgraded through research activities and oceanographic campaigns on board research vessels, related to marine sediment sampling and physico-chemical analysis (water content, organic matter content, particle size analysis, trace element analysis); basic knowledge about collection of hydrographical data by means of CTD (Conductivity-Temperature-Depth) profiling instruments and its analysis, acquired during oceanographic campaigns and courses; data management related to specific project and development of oceanographic data base for the Laboratory.

Computer skills and competences

Good computer skills with Microsoft Office tools, Internet understanding, ability to adjust easily to different software

Driving licence(s)

B

Additional information

Publications

In Scientific Journals:

- Campanelli A., **Bulatovic A.**, Cabrini M., Grilli F., Kljajic Z., Mosetti R., Paschini E., Penna Pierluigi, Marini M. (2009) Spatial distribution of physical, chemical and biological oceanographic properties, Phytoplankton, nutrients and Coloured Dissolved Organic Matter (CDOM) in the Boka Kotorska Bay (Adriatic Sea). *Geofizika*, Volume 26, Issue 2, Oct. 2009, pp. 1 - 14.
- Joksimovic, D., **Castelli, A.**, Mitric, M., Martinovic, R. and Perosevic, A. (2016) Marine Chemistry of the Boka Kotorska Bay. In: A. Joksimovic et al. (eds.), *The Boka Kotorska Bay Environment*, Hdb Env Chem, DOI 10.1007/698_2016_41.
- Joksimovic, D., **Castelli, A.**, Mitric, M., Martinovic, R., Perosevic, A., Nikolic, M. and Stankovic, S. (2016). In: A. Joksimovic et al. (eds.), *The Boka Kotorska Bay Environment*, Hdb Env Chem, DOI 10.1007/698_2016_40.
- Tadic, D., Aleksic, A., Popovic, P., Arsovski, S., **Castelli, A.**, Joksimovic, D., and Stefanovic, M. (2017) The evaluation and enhancement of quality, environmental protection and seaport safety by using FAHP, *Nat. Hazards Earth Syst. Sci.*, 17, 261-275, doi:10.5194/nhess-17-261-2017, 2017.
- Joksimović, D., **Castelli, A.**, Perošević, A., Djurović, D., Stanković, S. (2018) Determination of trace metals in *Mytilus galloprovincialis* along the Boka Kotorska Bay, Montenegrin coast. *J Trace Elem Med Biol.*, DOI: 10.1016/j.jtemb.2018.04.017
- Joksimovic, D., **Castelli, A.**, Pestoric, B. and Perosevic, A. (2019) An assessment of trace metal contamination in surface sediments of the Montenegrin coast by using pollution indexes and statistical analysis. *Fresenius Environmental Bulletin*, Volume 28, No. 2/2019 pp. 738-743

Scientific presentations:

- **Bulatović A.**, Kljajić Z., (2009) Determination of heavy metals in Marine Sediment. Conference proceedings of the 38th Annual Conference of the Serbian Water pollution Control Society „Water 2009“. Zlatibor, Serbia 8-11.06.2009. pp. 307-312.
- **Bulatović A.**, Blagojević N., Zejnilović R., Kljajić Z. Heavy metals in Marine sediments of the Bokakotorska Bay. Proceedings of the 2nd Symposium of Chemistry and Environment, Bar, Montenegro, 16-19.09.2009, page 52.
- **Castelli A.**, Kljajic Z. Heavy metals distribution in marine sediments of the East Adriatic Sea. The 39th International CIESM Congress, Venice, Italy 10-14.05.2010. Proceedings: Rapp. Comm. int. Mer Médit., 39, 2010, page 231.
- F. Del Bianco, L. Gasperini, G. Bortolluzzi, F. Giglio, F. D'oriano, A. Polonia, M. Ravaioli, Z. Kljajic, **A. Bulatovic**. Abstract: The Montenegro-Northern Albania Continental Margin: Morphotectonic Features in a Seismically active Region. 39th International CIESM Congress, Venice, Italy, 10-14.05.2010. Proceedings: Rapp. Comm. int. Mer Médit., 39, 2010, page 20.
- **Castelli A.**, Mitrić M., Kljajić Z. (2010) Heavy metals in coastal marine sediments of the South East Adriatic. Conference proceedings of the 39th Annual Conference of the Serbian Water pollution Control Society „Water 2010“. Divcibare, Serbia 8-10.06.2010, pp. 237-242.
- Mitrić M., **Castelli A.**, Kljajić Z. (2010) Analysis and comparison of water protection legislation of port aquatorium in Montenegro and surrounding countries. Conference proceedings of the 39th Annual Conference of the Serbian Water pollution Control Society „Water 2010“. Divcibare, Serbia 8-10.06.2010, pp. 17-22.
- **Castelli A.**, Mitrić M., Kljajić Z. (2011) Content and distribution of As in sediments in the South-Eastern part of Adriatic Sea. . Conference proceedings of the 40th Annual Conference of the Serbian Water pollution Control Society „Water 2011“. Zlatibor, Serbia 7-10.06.2011, pp. 257-262.
- Mitrić M., **Castelli A.**, Kljajić Z. (2011) Comparative studies on Bioindicators in Northern and Southern Adriatic . Conference proceedings of the 40th Annual Conference of the Serbian Water pollution Control Society „Water 2011“. Zlatibor, Serbia 7-10.06.2011, pp. 241-244.
- **Castelli, A.**, Mitric, M., Kljajic, Z. (2012) Spatial distribution of major elements in the surface sediment of Adriatic. Conference proceedings of the 41st annual conference of the Serbian Water Pollution Control Society "Water 2012", Divcibare, Serbia 5-7 June, 2012, pp. 237-242.
- Kljajic, Z., Markovic, S., Žmukic, J., Mitric, M., **Kasteli, A.**, Pestoric, B., and Drakulovic, D. (2012) Montenegrin coastal sea monitoring. Conference proceedings of the 41st annual conference of the Serbian Water Pollution Control Society "Water 2012", Divcibare, Serbia 5-7.06. 2012, pp. 207-214.
- Mitric, M., **Castelli, A.**, Ramšak, A. and Kljajic, Z. (2012) Biomarkers as indicators of pollution in the Bay of Kotor, Montenegro. Conference proceedings of the 41st annual conference of the Serbian Water Pollution Control Society "Water 2012", Divcibare, Serbia 5-7.06. 2012, pp. 215-220.
- Jovicic, A., **Castelli, A.**, Kljajic, Z. (2012) SEA ODC – An Implementation of Web Portal and B2B Services for Managing of Oceanographic Data Sets Collected in South-East Adriatic. Geophysical Research Abstracts, Vol. 14, EGU2012-2521, 2012, European Geosciences Union - EGU General Assembly 2012. Vienna, Austria, 22 – 27 April 2012.
- **Castelli, A.**, Mitrić, M., Kljajić Z.. (2013) Heavy metal investigations in sediment of the South Adriatic Sea. Conference proceedings of the 42nd annual conference of the Serbian Water Pollution Control Society "Water 2013", Perućac, Serbia, 4-6 June 2013, pp. 225-230.
- Mitrić, M., **Castelli, A.**, Ramšak, A., Božović, J. and Kljajić, Z. (2013) Biomarkers as indicators of pollution in the Bokakotorska bay. Conference proceedings of the 42nd annual conference of the Serbian Water Pollution Control Society "Water 2013", Perućac, Serbia, 4-6 June 2013, pp. 219-225.
- Mitrić, M., Kljajić, Z., Aladuz, A., Fusco, M., **Castelli, A.** and Lukovac, B. i Vučjak, B. (2013) Analysis and comparison of water protection legislation

- of port aquatorium in Montenegro and surrounding countries. Conference proceedings of the 42nd annual conference of the Serbian Water Pollution Control Society "Water 2013", Perućac, Serbia, 4-6 June, 2013, pp. 237-243.
- Jovicic, Aleksandar, **Castelli Ana** and Kljajic Zoran (2013) Distributed Digital Survey Logbook Built on GeoServer and PostGIS. Geophysical Research Abstracts, Vol. 15, EGU2013-3344, 2013, European Geosciences Union General Assembly 2013, Vienna, Austria, 07 – 12 April 2013.
 - Ivošević DeNardis, Nadica Šegota, Suzana, Svetličić, Vesna, **Castelli, Ana** and Kljajić, Zoran (2013) Characterization of marine organic matter in the bay of Boka Kotorska by electrochemical and atomic force microscopy imaging. *Studia Marina*, 26 (1), 2013, pp. 5-21.
 - **Castelli, A.**, Mitric, M., Kljajic, Z. (2014) Monitoring of the sediment in the Boka Kotorska Bay. Conference proceedings of the 43rd annual conference of the Serbian Water Pollution Control Society "Water 2014", Tara, Serbia, 3-5 June, 2014, pp. 287-293.
 - Mitrić, M., **Castelli, A.**, Ramšak, A., Sepčić, K, and Kljajić, Z. (2014) Enzyme biomarkers in evaluation of pollution of the sea at northern and southern Adriatic. Conference proceedings of the 43rd annual conference of the Serbian Water Pollution Control Society "Water 2014", Tara, Serbia, 3-5 June, 2014, pp. 331-336.
 - **Castelli, A.**, Mitric, M. and Kljajic, Z. (2015) Management of the oceanographic data through the networking of European data centers. Conference proceedings of the 44th annual conference of the Serbian Water Pollution Control Society "Water 2015", Kopaonik, Serbia, 2-4 June, 2015, pp. 267-272.
 - Mitrić, M., **Castelli, A.** and Kljajić, Z. (2015) Metallothioneins in digestive gland of mussel (*M. galloprovincialis*) in the waters of Boka Kotorska bay. Conference proceedings of the 44th annual conference of the Serbian Water Pollution Control Society "Water 2015", Kopaonik, Serbia, 2-4 June, 2015, pp.295-300, ISBN: 502.51 (262.3): 504.5: 669.018.45.
 - **Castelli, A.**, Mitric, M. and Kljajic, Z. (2015) Assessment of the environmental impact of heavy metals in the surficial sediments of the ports and bays in Montenegro. Book of Abstracts of the 18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region. September 26-30. 2015, Crete, Greece. p.68.
 - **Castelli, A.**, Mitrić, M., Jokanović, S., Martinović, R. and Joksimović, D. (2016) Assessment of the quality of surface sediment along the Montenegrin coast based on the content of heavy metals. Conference proceedings of the 45th annual conference of the Serbian Water Pollution Control Society "Water 2016", 15-17 June 2016, Zlatibor, Serbia, pp. 413-418. UDK: 551.463(497.16) 502.51(262.3):504.5:669.018.674
 - Mitric, M., **Castelli, A.**, Markovic, S., Martinovic, R. and Joksimovic, D. (2016) Assessment of general condition of the specimens *mytilus galloprovincialis* in Boka Kotorska bay based on enzymatic activity of acetylcholinesterase, Conference proceedings of the 45th annual conference of the Serbian Water Pollution Control Society "Water 2016", pp. 439-444, UDK: 502.51:504.5(497.16)
 - Martinović, R., Jokanović, S., Mitrić, M., **Castelli, A.**, Joksimović, D. i Gačić, Z. Analysis on tributyltin (tbt) influence on heart activity of the mediterranean mussel. Conference proceedings of the 45th annual conference of the Serbian Water Pollution Control Society "Water 2016", 15-17 June 2016, Zlatibor, Serbia, pp.431-438.
 - Joksimović, D., **Castelli, A.**, Mitrić, M. i Martinović, R. Strategies and plans for the study and protection of pen shell (*pinna nobilis*) in the Boka Kotorska Bay. Conference proceedings of the 46th annual conference of the Serbian Water Pollution Control Society "Water 2017", 06-08. June 2017. Vršac, Serbia. pp. 237-244.
 - Joksimović, D., **Castelli, A.**, Perošević, A. (2017) An assessment of heavy metal contamination in surface sediments of the Montenegrin coast using geoaccumulation indexes and statistical analysis. Book of abstracts of the 19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Rome, Italy, 4-6 October, 2017, pp. 391. http://www.mesaep.org/fileadmin/MESAEP/PDF/2017/MESAEP2017_Book_of_abstracts.pdf
 - **Castelli, A.**, Martinović, R., Mitrić, M., Peković, M., Joksimović, D. and Perošević, A. (2018) Characterization of the sediment of the mussel *Pinna nobilis* habitat in the Boka Kotorska bay. Conference proceedings of the 47th annual conference of the Serbian Water Pollution Control Society "Water 2018", 12-14 June 2018, Sokobanja, Serbia, pp.315-320.
 - Hernandez, S., Joksimović, D., Tena, J., Vicente, N., Mačić, V., García-March, J.R., **Castelli, A.**, Torres, J., Mitrić, M. and Martinović, R. (2018) Comparison of habitat structure of 4 dense populations of the critically endangered fan mussel (*Pinna nobilis*). VI International Symposium on Marine Sciences Vigo (Spain), 20-22th June 2018 .

Conferences

- Pacem in Maribus XXXII, „Waves of change: Women, Youth and the Sea“, Malta, 5-8.11. 2007.
- 2nd Euro-Mediterranean International Symposium: "Regional and national action plans for the sustainable development and integrated management of the Mediterranean Sea", Messina, Sicily, Italy, 11-12.9.2008.
- 16th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 24 - 27.09.2011, Ioannina, Greece.
- Forum on Operational oceanography in Eastern Europe (Group II): The Operational Oceanography of IOC (for GROUP II), 20 - 22 March 2012, Varna, Bulgaria
- 18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 26- 30. 09.2015, Crete, Greece

Projects (international, bilateral, national)

- COWAMA - Coastal Water Management (Italy, Montenegro). EU programme INTERREG IIIA Adriatic Cross Border (2006-2008). <http://www.cowama.corila.it/seminar.html>
- ADRICOSM STAR - Adricosm Integrated River Basin and Coastal Zone Management System: Montenegro Coastal Area and Bojana River Catchment (Italy, Albania, Montenegro). Adricosm Partnership, funded by the Italian Ministry of Environment, Territory and Sea (03/2007-03/2010). <http://moon.santateresa.enea.it/Star/atmo.htm>
- ADRICOSM STAR Intermediate Project (Italy, Montenegro). Adricosm Partnership, funded by the Ministry of Sustainable Development and Tourism of Montenegro and Italian Ministry for the Environment, Land and Sea (09/2012-03/2013). <http://www.cmcc.it/adricosm-intermediate/>
- ECOPORT 8 - Environmental management of transborder corridor ports (Italy, Montenegro, Albania, Greece, Romania and Bulgaria). SEE Transnational Cooperation Programme. (12/2009-05/2012). <http://www.ecoport8.eu/main.php>
- TENECOPORT - Transnational Enhancement of ECOPORT8 network (Italy, Croatia, Montenegro, Albania, Greece, Romania and Bulgaria). SEE Transnational Cooperation Programme. (11/2012-03/2014). <http://www.tenecoport.eu/>
- Environmental Monitoring Programme for Montenegro - Program monitoring of the status of the ecosystem of the coastal sea of Montenegro, within the MED POL - The Programme for the Assessment and Control of Pollution in the Mediterranean Region (UNEP/MAP) (2008-2015). <http://www.epa.org.me/>
- SEADATANET 2 - Pan-European Infrastructure for Ocean & Marine Data Management (35 countries riparian to all European seas). FP7 Program: Integrating Activities (IA). (10/2011-09/2015) <http://www.seadatanet.org/>
- HAZADR - Strengthening common reaction capacity to fight sea pollution of oil, toxic and hazardous substances in Adriatic Sea (Italy, Slovenia, Croatia, Montenegro and Albania). IPA Adriatic CBC Programme 2007-2013. (10/2012-01/2015). <http://www.hazadr.eu/>
- EMODNet Chemistry 2 - European Marine Observation and Data Network - Chemistry (29 coastal countries, riparian to all European seas). Launched by the Directorate-General for Maritime Affairs and Fisheries (DG MARE), (2013-2016), <http://www.emodnet-chemistry.eu/portal/portal/>
- DIVOMA - Dynamics of Northern and Southern Adriatic Sea in relation to pollutants spreading and response of biomarkers (Slovenia, Montenegro). Funded by the Ministry of Science of Montenegro (2011-2013).
- MOBIAS - Modelling of coastal sea circulation and biological effects of pollution in bays of northern and southern Adriatic Sea (Slovenia, Montenegro). Funded by the Ministry of Science of Montenegro, (2012-2013).
- PROZA - Impact assessment and determination of organic pollutants in the waters of the Boka Kotorska (Croatia, Montenegro). Funded by the Ministry of Science of Montenegro, (2013-2014).
- FILOSED - Phylogenetic analysis of the diversity of bacterial communities in sediment in the Bokakotorska Bay (Croatia, Montenegro). Funded by the Ministry of Science of Montenegro (2015-2016).
- JJI - South Adriatic I - Chemical analysis of seawater, sediments and biota (national project), (12/2009-11/2011)
- KOTOR - Complex research of the ecosystem of the coastal sea of Montenegro (national project), (4/2012-12/2015)
- SEADATACLOUD - Further developing the pan-European infrastructure for marine and ocean data. Funding under H2020, (11/2016-10/2020) www.seadatanet.org
- EMODNet Chemistry 3 - European Marine Observation and Data Network - Chemistry. Launched by the Directorate-General for Maritime Affairs and Fisheries (DG MARE). (03/2017-03/2019) <http://www.emodnet-chemistry.eu>
- PINNASPOT - The study, protection and possible breeding of pen shell (*Pinna nobilis*) in the Boka Kotorska Bay. Funding under The Prince Albert II of Monaco Foundation, (04/2016-03/2019). <http://www.ucg.ac.me/ibm>
- PRODATA- Support to Development of Physical Oceanography and Marine Database for the Coastal area of Montenegro. Funding by the Ministry of Science of Montenegro (01/2018-12/2019) <http://www.ucg.ac.me/ibm>
- HARMONIA - Harmonization and Networking for contaminant assessment in the Ionian and Adriatic Seas. Interreg ADRIION program (02/2018-12/2019). <http://www.ucg.ac.me/ibm>