

Europass Curriculum Vitae



Personal information	
First name(s) / Surname(s)	Leslie Aveytua Alcázar
Address(es)	
Telephone(s)	Mobile:
Fax(es)	
E-mail	
Nationality	Mexican
Date of birth	
Gender	
Desired employment / Occupational field	
Work experience	
Dates	22/04/2024 – 30/09/2024
Occupation or position held	Posdoctoral continuos and coordinated collaboration research
Main activities and responsibilities	To contribute to risk modelling activities within the REST-COAST project, focusing in particular on "WP2: Climate risk reduction through innovative restoration (warning indicators)" and WP4 "Adaptation management for restoration and upscaling". As part of this work, an assessment of the provision of ecosystem services by nature-based solutions is envisaged, focusing in particular on the water quality purification service provided by salt marshes in the pilot case of the Venice Lagoon"
Name and address of employer	CMCC Euro-Mediterranean Center on Climate Change  Ca' Foscari University of Venice Porta dell'Innovazione Building - 2nd Floor Via della Libertà, 12 - 30175 Venice (VE), Italy
Type of business or sector	Research centre
Dates	21/10/2023 – 21/12/2023
Occupation or position held	Posdoctoral Research
Main activities and responsibilities	The activities conducted were mainly dedicated to the simulations of the project VENEZIA2021. Specifically, they involved the modeling and statistical analysis of biogeochemical environmental data in the Venice Lagoon. Several simulation scenarios were developed to complete the characterization of the future state of the Venice Lagoon using the 3D coupled model SHYFEM-BFM.
Name and address of employer	National Institute of Oceanography and Applied Geophysics (OGS)
Type of business or sector	Research centre
Dates	01/09/2016 - 31/08/2022
Occupation or position held	Posdoctoral Research

Main activities and responsibilities	I collaborated on two projects: 1. "Physical Biogeochemical Modeling of a Coastal Lagoon," funded by the Italian Ministry of Education, Universities and Research (MIUR), as part of a joint research collaboration program of high relevance between Italy and the United States of Mexico from 2016 to 2019. 2. Venezia2021, a research program for a "regulated" Lagoon, Line 3.1 (Integrated System Assessment), funded by the Triveneto Directorate-General for Public Works through the Consortium Venezia Nuova from 2019 to 2022. Within this framework, the following activities have been undertaken: a) implementation of a new computational grid for Venice Lagoon, including a portion of the Adriatic Shelf, b) collection and integration of data for various modeling scenarios, c) calibration and validation of the model for generating different present and future scenarios, and d) preparation of statistical analyses for				
Name and address of employer	analyzing simulations. National Institute of Oceanography and Applied Geophysics (OGS), Borgo Grotta Gigante 42/C 34010, Sgonico (TS), Italy – International Centre for Theorethical Physics (ICTP). ICTP - Strada Costiera, 11, 34151, Trieste, Italy				
Type of husiness or sector	Research centre				
	01/04/2013 = 31/08/2016				
Occupation or position held	Posdoctoral Research				
Main activities and responsibilities	I participated in the TRIL program (Training and Research in Italian Laboratories) with a scholarship awarded by the OGS and ICTP. The focus of my research was on the physical-biogeochemical modeling of a Coastal Lagoon, as part of the joint research collaboration program between Italy and the United States of Mexico, funded by the Italian Ministry of Education, Universities, and Research (MIUR).				
	nitrogen cycle in a coastal lagoon. Within this framework, the following activities were carried out: a) data processing for model preparation, calibration, and validation, b) contribution to the development of SHYFEM, particularly the creation of a module for the carbon dynamics of Ulva spp., added to the model's code.				
Name and address of employer	National Institute of Oceanography and Applied Geophysics (OGS), Borgo Grotta Gigante 42/C 34010, Sgonico (TS ), Italy – International Centre for Theorethical Physics (ICTP). ICTP - Strada Costiera, 11, 34151, Trieste, Italy.				
Type of business or sector	Research centre				
Dates	01/10/2012 – 31/03/2013				
Occupation or position held	Posdoctoral Research				
Main activities and responsibilities	Creation of a biogeochemical database for the Mediterranean Sea, specifically designed for the calibration and validation activities of the numerical physical-biogeochemical model OPTAM-BFM, within the TRIL program (Training and Research in Italian Laboratories). I conducted data collection (harvesting), harmonization, and standardization, and I oversaw the process of integrating them into the NODC (National Oceanographic Data Center) database.				
Name and address of employer	National Institute of Oceanography and Applied Geophysics (OGS), Borgo Grotta Gigante 42/C 34010, Sgonico (TS ), Italy – International Centre for Theorethical Physics (ICTP). ICTP - Strada Costiera, 11, 34151, Trieste, Italy.				
Type of business or sector	Research centre				
Dates	01/01/2009 – 31/12/2010				
Occupation or position held	Posdoctoral Research				
Main activities and responsibilities	Participation in the TRIL program (Training and Research in Italian Laboratories) with a scholarship awarded by the ICTP and OGS, with the project titled: "Benthic Biogeochemical Modeling in a Coastal Lagoon." The research activities were conducted, including: a) application of a diagenetic model to the Gulf of Trieste, b) analysis of the impact of in situ seawater conditions on benthic ecosystem dynamics and c) reproduction of biogeochemical distributions in sediments.				
Name and address of employer	National Institute of Oceanography and Applied Geophysics (OGS), Borgo Grotta Gigante 42/C 34010, Sgonico (TS), Italy – International Centre for Theorethical Physics (ICTP). ICTP - Strada Costiera, 11, 34151, Trieste, Italy.				
Type of business or sector	Research centre				
Education and training					
Dates	01/02/2003 – 01/08/2008				
Title of qualification awarded	PhD in Science in Coastal Oceanography				

covered	Study courses included fluid mechanics, dynamic oceanography, and estuarine hydraulics. Acquired skills and activities: 1. Planning sampling campaigns, 2. Sampling and laboratory analysis of sediment-water samples, 3. Creation of a database for the application of the GOTM-ERSEM model., 4. Adaptation of the 1D GOTM-ERSEM model to explain the biogeochemical dynamics of nutrients in the Bahia San Quintin Lagoon, 5. Development of a module for Ulva spp and Zostera Marina added to the ERSEM model. The main results obtained during the Ph.D. included the drafting of a research project, the thesis, and a publication							
Name and type of organisation providing education and training	Autonomous University of Baja California – Marine Sciences Faculty – Oceanology Research Institute							
Dates	01/08/1999 – 04/09/	2002						
Title of qualification awarded	Master of Science ir	Master of Science in Coastal Oceanography						
Principal subjects/occupational skills covered	Courses attended included coastal biology oceanography, coastal physical oceanography, multivariate statistics, diagenetic processes, coastal geological oceanography, coastal chemical oceanography, and microheterotrophic processes. Acquired skills and activities: 1. Sampling and laboratory analysis of samples acquired in the Bahia San Quintin Lagoon, Mexico, 2. Use of analytical instrumentation for dissolved organic carbon analysis, 3. Thesis writing.							
Name and type of organisation providing education and training	Autonomous Univer	sity o	f Baja California	– M	arine Sciences F	acul	ty – Oceanology F	esearch Institute
Dates	01/01/1993 – 17/02/	1999						
Title of qualification awarded	Bachelor's degree ir	n Oce	eanology					
Principal subjects/occupational skills covered	Some courses included Thermodynamics, Advanced Statistics, Introduction to Meteorology, Geological Oceanography, Chemical Oceanography, Physical Oceanography, Biological ceanography, Marine Microbiology, Coastal Ecology, and Marine Contamination. The main activities during the undergraduate studies were: 1. Sampling and laboratory analysis of samples taken in the sediment of the Delfin Basin, north of the Gulf of California, 2. Learning to use laboratory instrumentation, 3. Participation in a research cruise. 4. Writing a publication.							
Name and type of organisation providing education and training	Autonomous University of Baja California – Marine Sciences Faculty							
Personal skills and								
competences								
Mother tongue(s)	Spanish							
Mother language(s)	Spanish Italian and Englis	sh						
Competences Mother tongue(s) Other language(s) Self-assessment	Spanish Italian and Englis Unders	sh	ding		Spea	akin	g	Writing
Competences Mother tongue(s) Other language(s) Self-assessment European level (*)	Spanish Italian and Englis Unders Listening	sh stane	<b>ding</b> Reading	SI	Spea poken interaction	akin Si	<b>g</b>	Writing
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Competences Mother tongue(s) Other language(s) Self-assessment European level (*) English Italian	Spanish Italian and Englis Unders Listening C1 C2	sh stano	ding Reading C1 C2	SI	Spea poken interaction C1 C2	akin Si	g poken production C1 C2	Writing C1 B2
Competences Mother tongue(s) Other language(s) Self-assessment European level (*) English Italian	Spanish Italian and Englis Unders Listening C1 C2 (*) Common Europear	sh stanc	ding Reading C1 C2 nework of Reference	Sp ce fo	Spea poken interaction C1 C2 rLanguages	akin Sr	g   boken production   C1   C2	Writing C1 B2
Competences Mother tongue(s) Other language(s) Self-assessment European level (*) English Italian Social skills and competences Technical skills and competences	Spanish Italian and Englis Unders Listening C1 C2 (*) Common Europear Good social and inte of different research Planning and Impler The technical report application" (2022	sh stand stand proje proje menta "Up	ding Reading C1 C2 nework of Reference sonal skills acqui ects; and the part ation of the project dating the finite SEZ OCE 67 ) w	SI red ticip ct ar <b>ele</b> vas (	Spea poken interaction C1 C2 <u>r Languages</u> through working ation of scientific ad preparation of ment mesh of th developed within	akin Sr as a divu proj ne V the	g       coken production       C1       C2       member of multid       ligation activities.       ect reports       enice lagoon: me       VENEZIA2021 pro	Writing C1 B2 isciplinary teams thodology and ject. The authors
Competences       Mother tongue(s)       Other language(s)       Self-assessment       European level (*)       English       Italian       Social skills and competences       Technical skills and competences	Spanish Italian and Englis Unders Listening C1 C2 (*) Common Europear Good social and inte of different research Planning and Impler The technical report application" (2022 are: Aveytua Alcáza This report provides VenlagBio_20 to su new grid, we utilized platform.	sh stand stand stand projet projet nenta "Upo /104 r, L., a me poort i code	ding Reading C1 C2 nework of Reference sonal skills acqui ects; and the part ation of the project dating the finite SEZ OCE 67 ) w Laurent, C., Mela ethodology for mo 3D biogeochemi e in the Python p	sı sı red ticip ct ar <b>ele</b> vas c aku odify cal rogr	Spea poken interaction C1 C2 rLanguages through working ation of scientific nd preparation of ment mesh of th developed within Canu, D. ving and updating simulations. Spec amming languag	akin Sp as a divu proj <b>be V</b> the cifica e ar	g       coken production       C1       C2       member of multid       ligation activities.       ect reports       enice lagoon: me       VENEZIA2021 pro       computational grid       ally, for the implem       id the open-source       des a tool for the solution	Writing       C1       B2       isciplinary teams       thodology and ject. The authors       d named entation of the eQGIS software       torage and

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Surname(s) First name(s)	© European Union, 2004-2010 24082010

Computer skills and competences	Microsoft office Suite   Excellent proficiency with Matlab   Excellent proficiency with GIMP   FORTRAN programming language   Excellent proficiency with QGIS   Windows, linux and MacOS   Basic knowledge of SQL   Python programming
Other skills and competences	<b>Member of the Doctoral Committee</b> for the student Mariana Ribas Ribas, with the thesis title "Dynamics of carbon in coastal areas" at the University of Cadiz (UCA) in Marine and Environmental Sciences, Cadiz, Spain.
Other skills and competences	<b>Member of the Master's Committee</b> in Coastal Oceanography for student Rebeca Zertuche Chanes at the Institute of Oceanographic Research, Faculty of Marine Sciences, UABC. In the role of thesis advisor, I supervised the student, who conducted a research stay at OGS from May 3 to June 15, 2015, to complete her master's project "Numerical simulation of the hydrodynamics of Bahia San Quintin, and its influence on nitrogen distribution."
Other skills and competences	I have been at the Proudman Oceanographic Laboratory (Liverpool, England) under the supervision of Dr. Alejandro Souza and at the Plymouth Marine Laboratory (Plymouth, England) under the supervision of Dr. Icarus Allen. During this period, I learned to use various oceanographic models, including the operational sea level forecasting model POL, and the physical models POLCOMS and biogeochemical ERSEM.
Other skills and competences	Participation in the field and laboratory activities of the SEP-CONACyT project (No. 40144) The fieldwork took place in various campaigns from 2004 to 2005 in San Quintin Bay, Mexico, with a team of researchers from the Autonomous University of Baja California. I was tasked with collecting seawater samples for nutrient, dissolved organic carbon (COD), and dissolved oxygen (O2) analyses. Additionally, I continuously measured nitrogen concentration using an automatic Sea-Bird Scientific instrument and analyzed COD concentration in the laboratory with a TOC-5000 SHIMADZU.
Additional information	Supporting documentations and additional information can be provided
Professional and Academic references	Available upon request