Christopher E. Orozco González

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PROFESSIONAL OBJECTIVE

"Highly accomplished Environmental Scientist and Professor with a proven track record in academia, seeking collaborations and opportunities within esteemed environmental agencies and universities, where I can apply my expertise to advance sustainable practices, conduct impactful research, and foster a passion for environmental stewardship among students and colleagues."

EDUCATION	
2023	Blue-Green Biodiversity Summer School
	Eidg. Forschungsanstalt WSL Switzerland
2015-2022	Ana G. Méndez University - Gurabo Campus, Puerto Rico
	Graduate School of Natural Sciences and Technology
	Ph.D. Environmental Sciences
2020	Ana G. Mendez University- Online Campus
	Continue Education School
	Distance Education Certification (PCED)
2019	University of Puerto Rico – Medical Science Campus
	Informatics and Educational Resources Office
	Professional Certificate in Data Science
2011-2013	University of Puerto Rico – Medical Science Campus
	Public Health Graduate School
	Master's degree in public health
2005-2011	University of Puerto Rico Cayey, Campus
	Social Sciences Program
	Bachelor's degree in social sciences
2002-2005	Miguel Meléndez Muñoz High School, Cayey, Puerto Rico
EMPLOYMENT	
Aug.2022- present	The University of the Sacred Heart - San Juan, Puerto Rico
	Professor of the following courses:
	GIV 201: Information and Communication Technologies
	GIV 301: Design and Research Technologies
	GIV 302: Data Management
	CFI 605: Statistics
Jan.2019- present	Ana G. Méndez University- Gurabo Campus
-	School of Natural Sciences and Technology
	Professor and laboratory instructor of the following courses:
	INSC-102 - Integrated Sciences

	BIOL 203L General Biology Laboratory I HESCL 207 Microbiology
Sept.2013-Aug.2022	Puerto Rico Health Insurance Administration
5cpt.2015-Aug.2022	Evaluation and quality analyst
	Perform quality and statistical analysis. Evaluate quality health metrics.
	Develop and coordinate quality health initiatives with all the Managed
	Health Care Organizations contracted under the Government Health Plan of
	Puerto Rico.
Aug.2018- Dec.2020	Ana G. Méndez University- Gurabo Campus
114g.2010 Dec.2020	School of Natural Sciences and Technology
	Research Assistant
	Collaborate in field studies in ecology and environmental sciences.
Aug.2014-Dec.2014	University of Puerto Rico, Medical Sciences Campus Public Health
1146.2014 Dec.2014	Graduate School
	Assistant Professor
	Course: Statistics and Methods of Research in Health Promotion and
	Education for Health
Mar. 2013 - Jun 2013	Legislative Internship Jorge Alberto Ramos Comas House of
	Representatives, Commonwealth of Puerto Rico
	Hon. Carlos J. Vargas Ferrer, District 29
	Student Intern
	Collaborate with legislative processes. Prepare legislative projects focused
	on housing and the well-being of the citizens. Assist the legislator in his
	daily tasks.
VOLUNTEER WORK	
2017-present	Community educator (independent)
	Conduct educational workshops and seminars on environmental
	conservation practices, organize community clean-up events to promote
	environmental stewardship, and offer training and workshops for
	community members interested in becoming environmental leaders.
2017-2019	Department of Natural and Environmental Resources of Puerto Rico
	Heritage Rivers Program, High-Value Natural Rivers, and
	Recreational Rivers Program of Puerto Rico
	Volunteer Scientist
	Collaborate with data management, conduct surveys and analyze results,
	help promote the program among communities adjacent to aquatic
	ecosystems, and work on different methodologies to evaluate the ecosystem
	services of rivers.
2013-2015	University of Puerto Rico, Medical Sciences Campus
	Public Health Graduate School Program: Health of Mother and Child
	Public Health Scientist
	Provide input and collaborate in various tasks for data collection and
	management— analysis of scientific literature.

RESEARCH EXPERIENCE

2024	Assessment of the condition of stream crossing to maintain ecological
	connectivity in Puerto Rico's rivers.
	Study design, (in progress: data collection, data analysis, and study report.)
2024	Relationship between the physicochemical parameters of Neotropical
	rivers and Veliidae populations.
	Study design, (in progress: data collection, data analysis, and study report.)
2023	Descriptive Analysis of Sampling Methods for Aquatic
	Macroinvertebrates
	Study design, data collection, data analysis, and study report.
2023	Discharges in a Neotropical River: A Descriptive Study
	Study design, data collection, data analysis, and study report.
2023	The Impact of Climate Change on the Ecosystem Services of Rivers
	Study design, data collection, data analysis, and study report.
2018-2023 (Ph.D.	Aquatic Macroinvertebrates as Bioindicators of Water Quality: A
thesis)	Study of an Ecosystem Regulation Service in a Tropical River
	Study design, data collection, data analysis, and study report.
2018-2023 (Ph.D.	Ecosystem Services of the Lapa River in the Planadas-Yeyesa Nature
thesis)	Reserve: a community survey
	Study design, data collection, data analysis, and study report.
2018-2022 (Ph.D.	Evaluation of the presence of decapods as a potential provisioning
thesis)	ecosystem service of a river located inside and downstream of a nature
	reserve.
	I evaluated decapod censuses and water physicochemical parameters in a
	long-term monitoring project to address the decapods as provisioning
	ecosystem services.
	Study design, data collection, data analysis, and study report.
2013 (Master's thesis)	Associated Factors to HIV/AIDS Prevention among Injecting Drug
	Users Participating in a Needle Exchange Program in Puerto Rico: A
	Survival Analysis for Cohort 2007-2010.
	University of Puerto Rico, Medical Sciences Campus
	Public Health Graduate School
	Performed data analysis and data visualization, among other tasks.
2013	Satisfaction with General Health and Reproductive Health in a sample
	of women homeless services in San Juan, Puerto Rico.
	University of Puerto Rico, Medical Sciences Campus
	Public Health Graduate School
	Reader and research assistant of the Thesis Director, Prof. Victor M. Reyes.
2013	Development and Validation of HCV Knowledge Questionnaire for a
	Sample of Puerto Rican Islanders Injecting Drug Users.
	University of Puerto Rico, Medical Sciences Campus,
	Public Health Graduate School
	Study design, data collection, data analysis, and study report.
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2007	Thermoregulation and Fluid Balance in Puerto Rican Female Soccer Players.
	Howard Hughes Program University of Puerto Rico, Cayey
	Mentor: M. Echegaray PhD
	Study design, data collection, and run statistics.
2006	Incidence of exon seven deletion in SMN1 and SMN2 gens among
	Puerto Rican patients of Spinal Muscular Atrophy.
	Howard Hughes Program University of Puerto Rico, Cayey
	Mentor: M. Echegaray PhD
	The study design ran a PCR analysis and worked with the study report.
PUBLICATIONS	
2023	Orozco-González, C.E. The Impact of Climate Change on the Ecosystem Services of Rivers. Las ciencias biológicas y la construcción de nuevos paradigmas de conocimiento 2023, 101-110. DOI: 10.22533/at.ed.0472311107
2023	Orozco-González, C.E. ; Ocasio-Torres, M.E. Aquatic Macroinvertebrates as Bioindicators of Water Quality: A Study of an Ecosystem Regulation Service in a Tropical River. Ecologies 2023, 4, 209-228. ttps://doi.org/10.3390/ecologies4020015
2013	Orozco-González, C. E.; Reyes, V.; Rodríguez J.; Flores, J.; Arce, F.; Casanova, M.; Cotto. C.; Maisonet. M.; Mercado, M.; Ortiz, S.; Pacheco, P.; et al. Development of a scale of satisfaction and impact of socio- demographic variables on the satisfaction with needle exchange services received by a sample of people who inject drugs in Puerto Rico. Scientific International Journal 2014, 11, 18-25.
POSTER PRESENTATI	ONS
September 2023	Orozco-González, C.E.; Ocasio-Torres, M.E. Ecosystem Services of the
	Lapa River in the Planadas-Yeyesa Nature Reserve: a community
	survey. Eidg. Forschungsanstalt WSL Switzerland
August 2023	Orozco-González, C.E.; Ocasio-Torres, M.E. Using a community survey

July 2023	Orozco-González, C.E.; Ocasio-Torres, M.E. Evaluation of the presence
	of decapods as a potential provisioning ecosystem service of a river
	located inside and downstream of a nature reserve.VI Latin American
	Congress of Macroinvertebrates and Aquatic Ecosystems.
June 2023	Orozco-González, C.E.; Ocasio-Torres, M.E. Aquatic Macroinvertebrates
	as Bioindicators of Water Quality: A Study of an Ecosystem
	Regulation Service in a Tropical River. Freshwater Sciences Conference.
	Brisbane, Australia

2023 ESA Annual Meeting. Portland, Oregon.

to assess the perception and knowledge of a river's ecosystem services.

May 2023	Orozco-González, C.E. Impact of climate change on the river's ecosystem services in Puerto Rico. 3 rd International Conference on
	Climate Change and Sustainability, Rome, Italy
April 2023	Orozco-González, C.E.; Ocasio-Torres, M.E. Aquatic Macroinvertebrates
	as bioindicators of water quality: A study of an ecosystem regulation
	service in a tropical river XX Research Meeting Ana G. Méndez
	University
May 2022	Orozco-González, C.E.; Ocasio-Torres, M.E. Ecosystem Services of the
	Lapa River in the Planadas-Yeyesa Nature Reserve: a community
	survey. Undergraduate and Graduate Research Symposium - Ana G.
	Méndez University
May 2022	Orozco-González, C.E.; Ocasio-Torres, M.E. Assessing aquatic
	macroinvertebrates as bioindicators of water quality and pollution: A
	pilot project in the Lapa River in Puerto Rico. Joint Aquatic Science
	Meeting 2022, Michigan, USA
June 2021	Orozco-González, C.E. Evaluation of the ecosystem services of the Lapa
	River in the Cerro Las Planadas Nature Reserve. 5th National and 1st
	International Congress of Environmental Sciences "Environmental Sciences
	in the Anthropocene." Colombian Network for Environmental Education
	and University of Applied and Environmental Sciences
2021	Orozco-González, C.E. The Impact of Climate Change on the Ecosystem
	Services of Rivers. Fifth Latin American Congress Aquatic
	Macroinvertebrates and Ecosystems. anamá.
2015	Conference Medicaid/CHIP Quality: Maternal and Infant Health
	Roundtable Improving Postpartum Visit Rates and Quality of Care
	Puerto Rico Health Insurance Administration

CERTIFICATES AND WORKSHOPS

2024	Virtual Analog Astronaut Certification
	Mars-Moon Astronautics Academy & Research Science (MMAARS)
	cohort in collaboration with the Puerto Rico Space Foundation
2021	Nature Education course
	Cornell University: Professional development online course
2020	Bugs 101: Insect-Human Interactions
	Coursera: University of Alberta
2020	Fundamental concepts for the study of the environment
	Coursera: Austral University
2020	Ecosystem Services: A Method for Sustainable Development Coursera:
	University of Geneva
2019	Biological Diversity (Theories, Measures and Data Sampling techniques)
	Coursera: National Research Tomsk State University
2019	Workshop: SPSS
	Ana G. Mendez University- Gurabo Campus

2018	Paleontology: Theropod Dinosaurs and the Origin of Birds University of
	Alberta
2017	Descriptive Statistics
	Institute of Statistics of Puerto Rico
2017	Quantum Geographic Information System (QGIS)
	Institute of Statistics of Puerto Rico
2017	Health Literacy for Public Health Professionals
	CDC Training Center
2012	Epidemics Outbreaks: Effect on the Health System of Puerto Rico
	University of Puerto Rico, Medical Sciences Campus
	Training Center in Puerto Rico and Florida health
2012	Ethics and integrity in research University of Puerto Rico, Rio Piedras
	Center for Academic Excellence
2012	Animals and Bioethics
	University of Puerto Rico, Rio Piedras
	Center for Academic Excellence
ACADEMIC FELLO	WSHIPS, SCHOLARSHIPS, AND AWARDS
2024	Mars-Moon Astronautics Academy and Research Sciences
	WINNER in the MMAARS scholarship (Join as a crew member in a
	MMARS low-fidelity analog astronautics mission at Mojave Desert,
	California, USA.
2020-2022	GRADS Scholarship
	Ana G. Mendez University
2021	WINNER in the best DOCTORAL THESIS PRESENTATION
	Subcategory, with the topic: "The Impact of Climate Change on The
	Ecosystem Services of Rivers." Fifth Latin American Congress Aquatic
	Macroinvertebrates and Ecosystems. Panamá.
AFILLIATIONS	·
2024	Sierra Club – Puerto Rico
2023-present	Forest Health and Protection Working Group – US Forest Service
2023-present	Ecological Society of America
-	Chapter membership:
	1. Early Career Ecologist Section
	2. Aquatic Ecology Section
	3. Latin American Chapter
2022-present	Society for Freshwater Science
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SKILLS AND KNOWLEDGE

Experience with computer programs (Word, PowerPoint, Excel, Access, Internet); QGIS and Statistical programs: R, STATA, and SPSS; database work; scientific writing; aquatic macroinvertebrates sampling; dissolved oxygen meter; conductivity meter; pH meter; temperature meter; community surveys; Scientific mentoring and, scientific education.