

NAME Karlo Malavé-Llamas	POSITION TITLE Executive Academic Director		
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Puerto Rico – Humacao Campus	B.S.	1996	Microbiology
University of Puerto Rico – Medical Science Campus	M.S.	2003	Environmental Health
Turabo University	Ph.D.	2016	Environmental Sc.-Biology

A. Personal Statement

Experience as an Undergraduate, Graduate Educator Mentor and Researcher. I have chosen a career in academics and research which provides me with the unique opportunity to interact closely with undergraduate and graduate students at Universidad del Este (UNE) and Universidad Metropolitana (UMET), both of the Ana G. Mendez University System (AGMUS). My overall professional goal is to become part of all aspects of development of a continuously growing institution. In addition to my appointment as Executive Academic Director of the URGRET-MBRS-RISE Program at the School of Science (SCT) and Technology at UNE, I also hold an appointment as Part-Time Professor in the SCT-UNE and the Graduate School of Environmental Affairs (GSEA) at UMET. These appointments as Part-Time Professor have allowed me to be a member of M.S. students' thesis committees at GSEA-UMET. Also, I have had collaborators at GSEA-UMET that provided resources for the training of UNE's URGREAT-MBRS-RISE students at their facilities, stimulating interdisciplinary interactions. The same collaborations have provided students with increased options as well as broad access to informational and technical resources.

Impact on Undergraduate Research Related Training (RRT). I'm committed to the research training of high school students and undergraduate students, and since arriving at UNE almost nine years ago, I have been fortunate to have worked with several students to train with me. All assigned students work as a team and under my direct supervision. The team work ensures continuity and proper training of the students. Currently in the program, I train the students in basic laboratory techniques and environmental health microbiology. The work and techniques the students are exposed to are: Water Quality Microbiology Public Health Assessment: (1) Dilution techniques (2) microbial media preparation (3) Pure culture preparations for bacterial strains (4) Membrane Filtration (5) Risk Assessment (6) BIOLOG Bacterial ID (7) Environmental Law and Public Policy Data Analysis. The interdisciplinary nature of the RRT provides a unique training opportunity for my undergraduate students in the areas of microbial ecology, epidemiology environmental science and molecular biology. The research methods we carry out allows them to understand that new approaches do not necessarily mean new techniques but new ideas using new or existing tools to explore and assess public health threats.

B. Positions and Honors. Positions and Employment

- July 2016-Present** **Assistant Professor;** Biology, General Microbiology, Biostatistics (MATH 304), Environmental Science, Environmental Biotechnology, Epidemiology, Mycology and Statistics (STAT 201), School of Science and Technology, Universidad del Este (UNE), prepare the conferences, administer test, calculate student's grades, help students and coordinate conferences.
- Jun 2004-Present** **Executive Academic Director,** "Universidad del Este" Carolina, PR, evaluate, supervise and organize activities of the Undergraduate Research Programs for students under the URGREAT Program. **Supervise a staff of 20 employees (student researchers).** Coordinate mini-courses, conferences and seminars (in and out of Puerto Rico) for the students admitted to the Science and Technology School of the "Universidad del Este".
- Mar-02-Sept 04** **Environmental Health Specialist,** Cooperative Agreement between the Department of Health of Puerto Rico, San Juan, and the Agency for Toxic Substances and Disease Registry (ATSDR) in Atlanta, Georgia. Prepare Public Health Assessments and Health Consultations of people in communities that may be exposed to hazardous material.

Work closely with EQBPR and EPA in PR. Coordinate Health Fairs and prepare epidemiological data of those communities.

Relevant Certifications

August 2012 **HIPAA, RCR, IRB Certification.** AGMUS Annual Meeting.

October 2004 **BIOLOG Workshop,** Advance Instruments (13 Contact hours).

February 2003 **29 CFR 1910.120 (e)(3)(i) OSHA-HAZWOPER**

C. Selected peer-reviewed publications, presentations and other. Peer-Review Publications

Sept 2016 Marixa Maldonado-Román, **Karlo Malavé-Llamas**, Juan C. Musa-Wasil. *Mangroves and Their Response to a Heavy Metal Polluted Wetland in The North Coast of Puerto Rico*; Journal of Tropical Life Science. <http://jtrolis.ub.ac.id/index.php/jtrolis/article/view/553>

December 2015 Mario E. Díaz Rivera, Christian Vélez, Beatriz Zayas & **Karlo Malavé Llamas**, *Bacterial Assessment on Leaves of Green Vegetable Grown on Hydroponics and its possible Health Risks*; Journal of Agriculture and Environmental Sciences. <http://jaesnet.com/vol-4-no-2-december-2015-abstract-1-jaes>

September 2015 Melanie De La Rosa-Acosta, Johannys Jiménez-Collazo, Marixa Maldonado-Román, **Karlo Malavé-Llamas**, Juan C. Musa-Wasil, *Bacteria as Potential Indicators of Heavy Metal Contamination in a Tropical Mangrove and the Implications on Environmental and Human Health*; Journal of Tropical Life Science. <http://www.jtrolis.ub.ac.id/index.php/jtrolis/article/view/289>

September 2010 **Malavé-Llamas K.** and Cotto-Maldonado M. 2010. *Communicating Environmental Risks in Developing Countries*. In: Taylor & Francis group, editors, *Environmental and Human Health: Risk Management in Developing Countries*. 1st Ed. Pag. 13-24.

April 2004 **Health Consultation:** Assessment of Dioxins in Soil, Vega Baja Solid Waste Disposal Site, Rio Abajo Ward, Vega Baja County, Puerto Rico, EPA Facility PRD980512669. U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances Disease Registry (ATSDR), Division of Health Assessment and Consultation, Atlanta, Georgia 30333. Authors: Encijar Hassan Rios and **Karlo Malavé Llamas**.

Journal Reviewer

July 2016 – Present **Journal of Tropical Life Science** <http://jtrolis.ub.ac.id/index.php/jtrolis>

July 2010 - Present **Bioremediation Journal** <http://www.informaworld.com/smpp/title~content=t713400853>

Most Recent Presentations

May 22-27, 2016 **Assessment of Halophilic Culture Dependent Bacteria in the Salt ponds in Cabo Rojo, Puerto Rico**, Authors: Franco Negron, Jayleen Duprey, José Roig and Karlo Malavé-Llamas; Presented at: 11th International Conference on Halophilic Microorganisms: Halophiles 2016, May 22-27, 2016, San Juan, Puerto Rico (POSTER).

Nov 11-14, 2015 **Identification of Bacteria with Bioremediative Potential in a Superfund Site Contaminated with Tetrachloroethylene and Trichloroethylene in Cidra Aquifer, Puerto Rico**, Authors: Josué Lugo¹, Jayleen M. Duprey², Nelson O. Reyes¹, Daisy Consuegra¹, Héctor Rosa¹, Rafael Feliciano¹, **Franco Negrón**¹, Angel Feliciano², Carlos

Rodríguez², Karlo Malavé-Llamas¹, Presented at: 2015 ABRCMS, November 11-14, 2015, Seattle, WA, USA. (POSTER)

- Nov 11-14, 2015** **The Impact of Pathogens Isolated from Canal Suarez, Puerto Rico, their Antibiotic Resistance and the Negative Effects on Human Health and Economic Activities**, Authors: Angel Feliciano², Nelson O. Reyes¹, Daisy Consuegra¹, Jayleen M. Duprey², Josué Lugo¹, **Héctor Rosa¹**, Rafael Feliciano¹, Franco Negrón¹, Carlos Rodríguez², Karlo Malave Llamas¹ Presented at: 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), November 11-14, 2015, Seattle, WA, USA. (POSTER)
- Nov 11-14, 2015** **Diversity of Uncommon Pathogens in Puerto Rico's Recreational Waters and their Impact in Public Health**, Authors: Daisy Consuegra¹, Jayleen M. Duprey², Nelson O. Reyes¹, Josué Lugo¹, Héctor Rosa¹, **Rafael Feliciano¹**, Franco Negrón¹, Angel Feliciano², Carlos Rodríguez², Karlo Malave Llamas¹ Presented at: 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), November 11-14, 2015, Seattle, WA, USA. (POSTER)
- May 2012** **Undergraduate Research Education and Training Program (URGREAT): A Sucesful Two Level Training Intervention in Puerto Rico**, authors: **Lilliam Lizardi**, **Karlo Malavé-Llamas** and Sandra González. Presented at: 5th Annual Conference on Understanding Interventions That Broaden Participation in Research Careers, May 9-12, 2012, Baltimore, Maryland (POSTER)
- November 2011** **Environmental Pollution, Environmental Justice and its Association with Diabetes**. Author: **Karlo Malavé-Llamas**. Presented at: 1st Congress: Diabetes in Children and Adolescents: Emerging Epidemic, November 3-4, 2011, Puerto Rico Convention Center, San Juan, Puerto Rico.
- November 2011** **Bacteriological and Water Quality Assessment on Five Public Tropical Beaches on the North Region of Puerto Rico**. Authors: **Sheila Cubero- Rodríguez**, Karla Casillas, Joel Rivera, Agleé Martínez, Carlos Vázquez, Jackeline Palencia, Karlo Malavé-Llamas. Presented at: 2011 Annual Biomedical Research Conference for Minority Students (ABRCMS), November 11, 2011, St. Louis, USA. (POSTER).

Professional Associations

- Since 2008** UPR-MSC-GSPH Ex-alumni Association (**UPRGSPHEAA**)
- Since 2008** Puerto Rico Society of Mycologists (**PRSM**)
- Since 2007** Council of Undergraduate Research (**CUR**)
- Since 2003** UPR-Humacao Ex-alumni Association (**UPRHEAA**)
- Since 2003** National Association of Safety Professionals (**NASP**)
- Since 2003** International Association of Safety Professionals (**IASP**)
- Since 1994** American Society for Microbiology (**ASM**)
- Since 1994** Puerto Rico Society for Microbiology (**SMPR**)

REFERENCES: Available upon Request.