

CURRICULUM VITAE

CARLOS ALBERTO ROSADO BERRIOS

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PERSONAL:

Languages: Spanish and English
Citizenship: U.S.A.

EDUCATION:

Ph.D. in Environmental Science. Arkansas State University, Jonesboro (May, 2018)
M.S. in Environmental Science. Arkansas State University, Jonesboro (December 2015)
M.S. in Environmental Management. Universidad Metropolitana, Río Piedras (May, 2011).
B.S. in Biology. University of Puerto Rico, Río Piedras Campus (2004).

PROFESSIONAL INTERESTS:

Risk Assessment, In vitro/In vivo Toxicology, Environmental Toxicology/Aquatic Toxicology (Ecotoxicology, Physiology, and Risk Assessment) and Water Quality (Analytical techniques).

EMPLOYMENT EXPERIENCE:

Quality Control Analyst III. (August 20, 2018 to the present) Cognate Bioservices (Endotoxin Testing, Chromium Release Assay, Post-Thaw Proliferation Assay, Viability testing, Technical Writer, and Spreadsheet Validation)

Graduate Teaching Assistant. (January 2016 until the May 2018) Arkansas State University Biological Science Department (Assist in teaching laboratory classes of General Biology, Ecology, and Ichthyology, Maintenance of fish and Cladocera organisms, performed WET testing, water quality studies, analytical techniques like Mass Spectrometry, Nutrient Analyzer, and Atomic Absorption; Training and supervision of undergraduate and graduate students)

Research Assistant. (Fall 2011 until December 2015) Arkansas State University Ecotoxicology Research Facility (Maintenance of fish and Cladocera organisms, performed WET testing, water quality studies, analytical techniques like Mass Spectrometry, Nutrient Analyzer, and Atomic Absorption; Training and supervision of undergraduate and graduate students)

Research Assistant. (2010) U.S. Forest Service Volunteer Program at the Luquillo-Long Term Ecological Research (LTER).

Research Assistant. (2008- 2010) Metropolitan University Rio Piedras. Puerto Rico Alliance for the Advancement of the Biomedical Research Excellence (PRAABRE or Puerto Rico INBRE).

Laboratory Technician. (August 2004 - August 2005) University of Puerto Rico, Río Piedras Campus. Department of Biology.

Laboratory Technician Assistant. (2003- 2004) University of Puerto Rico, Río Piedras Campus. Department of Biology.

Invertebrate Curator Assistant. (2002-2003) University of Puerto Rico, Río Piedras Campus. Department of Biology, Biology Museum.

Maintenance of the invertebrate specimens, Digitalization of the Museum Biogeographically data and restructure of the Museum function.

RESEARCH EXPERIENCE:

Water Quality Monitoring in the Cache River Watershed, Arkansas. (August, 2011 to May 2018)

Toxicity of 2-ethyl-1-hexanol on Human (TK6) Lymphoblast Cells. (May, 2010 to December 2015)

Cytotoxicity of Di-Ethylhexyl Phthalates and Mono Ethylhexyl Phthalates on Human (TK6) Lymphoblast cells. Master Degree Thesis (January, 2008 - May, 2010)

Neuroanatomy Microscopy: Rat Olfactory Bulb Projections Labeling (August 2004-2005).

Coliphages, Thermotolerants, and Enterococci: Fecal Contamination Indicators in San Juan Bay, Puerto Rico. (2004-2005)

Fecundity Index of the Land Crab *Cardisoma guanhumi* in Puerto Rico. University of Puerto Rico (2000-2002).

PRESENTATIONS:

Rosado-Berrios, C.A., Bouldin, J.L. 2018. Upstream to Downstream Decrease in Turbidity, TSS, and Pb in the Bayou DeView River, AR. MidSouth SETAC, 3-4 May 2018, Memphis, TN.

Bouldin, J.L., Kilmer, M.K., Rosado-Berrios, C.A., Lacy, M. 2018. Spatial Variance of Dissolved and Total Pb Within the Cache River Watershed, Arkansas. MidSouth SETAC, 3-4 May 2018, Memphis, TN.

Bouldin, J., Kilmer, M., Rosado-Berrios, C.A., and Kennon, M. 2017. "Spatial Variance of Dissolved and Total Pb within the Cache River Watershed, Arkansas" Poster Presentation at 38th SETAC North America Annual Meeting, Minneapolis, MN November 2017.

Rosado-Berrios C.A. and Bouldin J.L. 2017. "Cache River Watershed: Overview". Oral presentation at SETAC Mid-South Meeting on May 18 – 19, Oxford, MS.

Rosado-Berrios C.A. and Bouldin J.L. 2017. "Individual and Combine toxicity of Acephate and Thiamethoxam" Poster presentation at 19th Arkansas Soil and Water Education Conference, January, 2017.

Rosado-Berrios C.A. and Bouldin J.L. 2016. "Individual and Combine toxicity of Acephate and Thiamethoxam" Poster presentation at 37th SETAC North America Annual Meeting, Orlando, FL November 2016.

Rosado-Berrios C.A. and Bouldin J.L. 2016. "Single and Together: the toxicity of Acephate and Thiamethoxam" Oral presentation at SETAC MidSouth 2016 Meeting on June 16 - 17, Murfreesboro, TN.

Rosado-Berrios C.A. and Bouldin J.L. 2016. "Assessment of Nutrients on the Lower Cache River Watershed, AR" Poster presentation at 18th annual Arkansas Soil and Water Education Conference, Jonesboro, AR. January 27, 2016.

Rosado-Berrios C.A. and Bouldin J.L. 2015. "Detection of Lead (Pb²⁺) in the Lower Cache River Watershed, Arkansas" Poster presentation at 36th SETAC North America Annual Meeting, Salt Lake City, UT November 2015.

Rosado-Berrios C.A. and Bouldin J.L. 2015. "Water Quality Assessment of the Lower Cache River Watershed, AR – A Three Year Study" Oral presentation at SETAC MidSouth 2015 Meeting on May 11-12, Vicksburg, MS.

Rosado-Berrios C.A. and Bouldin J.L. 2015. "Lower Cache River Watershed Water Quality Monitoring" Poster presentation at the Arkansas Soil & Water Conference, Jonesboro, AR. January 30, 2015.

Rosado-Berrios C.A. and Bouldin J.L. 2014. "Comparing two years of Water Quality Monitoring in the Cache River Watershed, Arkansas" Poster presentation at the Arkansas Soil & Water Education Conference, Jonesboro, AR. January 31, 2014.

Rosado-Berrios C.A. and Bouldin J.L. 2013. Comparison of two years of Water Quality Monitoring in the Cache River Watershed, AR. Poster presentation at the Society of Environmental Toxicology and Chemistry 34th Annual Meeting, Nashville, TN November 2013.

Rosado-Berrios C.A. and Boudin J.L. April 29, 2013. Water Quality Assessment in the Lower Cache River Watershed Oral Presentation at the 82nd Annual Conference of Arkansas Water Works & Water Environment Association.

Rosado-Berrios C.A. and Bouldin J.L. 2012. Water Quality Monitoring in the Cache River Watershed, Arkansas (Poster presentation at the 33rd SETAC Society of Environmental Toxicology and Chemistry, Long Beach, CA, 11-15 November 2012.

Vélez, C., Molina, D., Rosado-Berrios, C.A., Cox, O., Zayas, B. 2011. Cellular effects of fluorescent quinolinium drugs on normal lymphoblast and A 431 carcinoma cells. (Poster presentation at the 43rd IUPAC Congress-Chemsitry Bridging Innovation among the Americas and the World, San Juan, PR August 2011.

Rosado-Berrios C.A., Vélez, C., and Zayas, B. 2011. Plasticizer metabolite effects on human (TK6) lymphoblast cells" (Poster presentation at the AACR 102nd Annual Meeting April, 2011).

Rosado-Berrios C.A., Vélez, C., and Zayas, B. 2010. Cytotoxicity of Di-Ethylhexyl Phthalate and Mono Ethylhexyl Phthalate on Human (TK6) Lymphoblast Cells (Poster presentation at the AACR 101st Annual Meeting. April, 2010).

Rosado-Berrios C.A., Vélez, C., and Zayas, B. 2009. Cytotoxicity and Mitochondrial Effects of Di- Ethylhexyl and Mono-Ethylhexyl Phthalates (Poster presented at Southeast IDeA Regional Meeting November 9-11, 2009).

Rosado-Berrios C.A., Vélez, C., and Zayas, B. 2009. Cytotoxicity effects of Diethylhexyl and Mono ethylhexyl Phthalates on human TK6 lymphoblast cells 61st American Chemical Society Southeast Regional Meeting, October 2009

Rosado-Berrios C.A., Vélez, C., and Zayas, B. 2008. Cytotoxicity and Mitochondrial Membrane Damage Effects of Di-Ethylhexyl and Mono Ethylhexyl Phthalates on Human TK6 Lymphocytes Cells (Poster presented at 39th Annual Meeting of the Environmental Mutagen Society, October, 2008).

Rosado-Berrios, C.A., Torres-Nuñez, D.A., Orengo, C. Coliphages, Thermotolerants, and Enterococci: Fecal Contamination Indicators in San Juan Bay, Puerto Rico. (Presented on March 2005 at the Second Symposium of Graduate Research at University of Puerto Rico) Poster

Rosado-Berrios, C.A., Rodriguez-Fourquet, C., and Sabat, A. Fecundity Index of the Land Crab *Cardisoma guanhumi* in Puerto Rico. University of Puerto Rico (Presented on the Puerto Rico Jr. Technical Meeting 2002). Poster/Conferences

WORKSHOPS:

Short Course: Science Communication: Using Science Improv to Communicate Science, at the 36th North America Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT November 2015

Short Course: Media and Communications Training for Environmental Scientists at the 36th North America Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT November 2015.

Practical GC/MS Techniques at the 33rd North America Annual Meeting of the Society of Environmental Toxicology and Chemistry, Long Beach, CA, 11-15 November 2012.

Applied Biosystems/Puerto Rico Alliance for the Advancement of the Biomedical Research Excellence RT-PCR Theory and Practice Workshop at the University of Puerto Rico Medical Science Campus (December, 2009).

40-Hrs HazWOPER OSHA Training At Atlantic OSHA Training Center. (June, 2010)

AWARDS AND FELLOWSHIPS:

Arkansas Game and Fish Commission Conservation Scholarship (August 2012 to May 2016)

Midsouth SETAC Meeting 2015 Platform Award

SETAC Student Travel Award (2013)

Puerto Rico Alliance for the Advancement of the Biomedical Research Excellence (PRAABRE or Puerto Rico INBRE) Research Assistant Fellowship (January, 2008 to May 2011)

PUBLICATIONS:

Rosado-Berrios, C.A. and J.L. Bouldin. (manuscript in process). Single and Mixture Toxicity of Acephate (Orthene 97) and Thiamethoxam (Centric 40WG) on *Ceriodaphnia dubia* and *Pimephales promelas*.

Rosado-Berrios, C.A. and J.L. Bouldin. (2016). Turbidity and Total Suspended Solids on the Lower Cache River Watershed, AR. Bulletin of Environmental Contamination and Toxicology, 96(6); 738 – 743.

C. Velez, O. Cox, C.A. Rosado-Berrios, Denisse Molina, Luz Arroyo, Sujei Carro, Anton Filikov, Vineet Kumar, Sanjay Malhotra, Marisol Cordero, and B. Zayas. (2013). Novel nitrobenzazolo [3,2-a]quinolinium salts induce cell death through a mechanism involving DNA damage, cell cycle changes, and mitochondrial permeabilization. Open Journal of Apoptosis vol 2, 13-22.

A.M. Gilmer, C.A. Rosado-Berrios, and J.L. Bouldin. (2012). Establishing baseline nutrient and sediment input in the Lower Cache River Watershed, AR. Journal of the Arkansas Academy of Science, vol 66.

Rosado-Berrios Carlos A. Vélez Geren Christian and Zayas Beatriz. (2011). Mitochondrial Permeability and Toxicity of Di ethylhexyl and Mono ethylhexyl Phthalates on human lymphoblast cells. Toxicology in Vitro 25 (8), 2010-2016.

SKILLS:

Gas Chromatography-Mass Spectroscopy; Liquid-liquid Microextraction
Nutrient Analyzer; Real time PCR; HPLC-MS; Histology Preparation techniques;
Fluorescence, Confocal, and light Microscopy; Human Cells in Vitro Culture;
Maintenance of Invertebrate/Vertebrate animal cultures.

VOLUNTEER

61st North Eastern Arkansas Regional Science Fair Judge (March 2017)
Biological Science Department – Diversity Committee 2016 Arkansas State University
60th North Eastern Arkansas Regional Science Fair Judge (March 2016)
59th North Eastern Arkansas Regional Science Fair Judge (March 2015)
SACNAS News Editorial Advisory Board Member (since March 2016)

PROFESIONAL ORGANIZATIONS:

Society of Environmental Toxicology and Chemistry (SETAC) – member since 2012
American Association for Cancer Research (AACR) – Associate member since 2010
Society for the Advancement of Hispanic/Chicanos and Native Americans in Science (SACNAS) – member since 2014
American Association for the Advancement of Science (AAAS)

ADDITIONAL ACTIVITIES:

S.A.M. (Marine Environment Society) Student`s Organization - volunteer.

S.E.P.R.I. (Speleologic Society of Puerto Rico) - volunteer.
Open Water Diver Certification (SSI) 1997.
Nitrox Diver Certification (IANTD) 2000.