

**KEILA YANIS ACEVEDO VILLANUEVA**  
P.O. Box 1689 Victoria Station Aguadilla P.R. 00605  
(787) 910 - 3797  
[acevedo.keila1@hotmail.com](mailto:acevedo.keila1@hotmail.com)

## **EDUCATION**

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University of Georgia Graduate School August 2017 - Currently  
Poultry Sciences Department  
M.S. Poultry Science

University of Puerto Rico-Aguadilla August 2012- June 2017  
Natural Sciences Department  
B.S. Biomedical Biology  
**GPA 3.690– *magna cum laude***

## **RESEARCH EXPERIENCE**

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**NSF REU Fellow - University of Toledo Lake Erie Center** *Currently*  
- Detecting airborne microcystin particles in the laboratory, evaluating two extraction methods for aerosolized microcystin particles and identifying the predominant microcystin congener form in Grand Lake St. Mary's. Research includes water and air sampling, ELISA & the use of SPSS software.

Mentor (s): April Ames, MSOH, CIH & Catherine Ross, MS Student

**Research Scholar, University of Puerto Rico-Aguadilla** August - December 2016  
- Validated the presence or absence of different culture strains sold as probiotics on *La Yogurt* commercialized yogurt brand. Studied how its nutritional content affected the bacterial growth in specific flavors. Research included microscopy, biochemical tests and spectrophotometry.

Mentor (s): José A. Cardé-Serrano, PhD & Kristos I. Negrón-Terón, PhD Student

**SRP Scholar & Co-hort, Ohio State University - OARDC** May – August 2016  
- Studied the effects of probiotics and acidifiers on serum and bile anti-*Salmonella* immunoglobulins post-*Salmonella* infection and post-*Salmonella* vaccination in chickens. Research included ELISA, PCR and use of JMP software.

Mentor (s): Ramesh Selvaraj, PhD & Ashley Markazi, PhD Student

**Research Scholar, University of Puerto Rico-Aguadilla** August -December 2015  
- Analyzed caffeine concentration of various Arabica coffee brands that are cultivated in Puerto Rico. Further analysis of decaffeinated coffee and a coffee consumption survey was also carried out. Research included HPLC and use of Minitab software.

Mentor (s): Sonia Rivera González, PhD

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**SROP Scholar & Co-hort, Ohio State University-Columbus**

May - August 2015

- Investigated the impact of increasing exogenous fatty acid levels on protozoal carbohydrate storage ability. Research included microscopy, iodine stain assay and use of Image J software.

Mentor (s): Jeffrey Firkins, PhD & Yairanex Roman-Garcia, PhD Student

**ORAL PRESENTATIONS**

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- Acevedo Villanueva, K. Y. & Selvaraj, R. (2016). *Effects of Probiotic and Acidifier Supplementation on Salmonella Infection in Chickens*. The Ohio State University. College of Food, Agriculture, and Environmental Sciences. SROP Research Symposium, July 2016. Columbus, OH.
- Acevedo Villanueva, K. Y. & Firkins, J.L. (2015). *Impact on Carbohydrate Storage when Feeding Fatty Acids to Rumen Protozoa*. The Ohio State University. College of Food, Agriculture, and Environmental Sciences. SROP Research Symposium, July 2015. Columbus, OH.

**POSTER PRESENTATIONS**

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- Acevedo Villanueva, K. Y. & Selvaraj, R. (2016). *Effects of Probiotic and Acidifier Supplementation on Salmonella Infection in Chickens*. The Ohio State University. Ohio Agricultural Research and Development Center. SROP Wooster Research Symposium, July 2016. Wooster, OH.
- Acevedo Villanueva, K. Y. & Selvaraj, R. (2016). *Effects of Probiotic and Acidifier Supplementation on Salmonella Infection in Chickens*. The Ohio State University. College of Food, Agriculture, and Environmental Sciences. SROP Research Symposium, July 2016. Columbus, OH.
- Acevedo Villanueva, K. Y. & Firkins, J.L. (2015). *Impact on Carbohydrate Storage when Feeding Fatty Acids to Rumen Protozoa*. The Ohio State University. College of Food, Agriculture, and Environmental Sciences. SROP Research Symposium, July 2015. Columbus, OH.

**3MINUTE THESIS PRESENTATIONS**

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- Acevedo Villanueva, K. Y. (2016). *Effects of Probiotic and Acidifier Supplementation on Salmonella Infection in Chickens*. The Ohio State University. College of Food, Agriculture, and Environmental Sciences. July 2016. Columbus, OH.
- Acevedo Villanueva, K. Y. (2015). *Impact on Carbohydrate Storage when Feeding Fatty Acids to Rumen Protozoa*. The Ohio State University. College of Food, Agriculture, and Environmental Sciences. July 2015. Columbus, OH.

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## ***OTHER EXPERIENCE***

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- Volunteer tutor**, Aguadilla P.R. August 2013- Present  
- Tutor middle and high school students from my community on Science and English subjects.
- “Villa Michelle” Pet Shelter volunteer, Mayaguez PR** March 2016-May 2016  
- Promote responsible care through education programs, help in any way possible: cleaning cages, walking and bathing dogs, etc.
- Webpage designer/administrator**, The University of Puerto Rico- Aguadilla May 2013-2015  
- Designed and administered the “Organización Estudiantil PRAXIS” website and blog.
- Newspaper collaborator**, The University of Puerto Rico- Aguadilla May 2015  
- Collaborating author on the ACS Green Chemistry Division’s “La Idea Química” (8<sup>th</sup> Edition) newspaper. Emphasized field applications of green chemistry principles.

## ***SKILLS***

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- **Bilingual**, oral and written (English and Spanish), efficient use of databases and software for data analysis and interpretation, computer proficiency with Microsoft Office, Minitab, JMP, microscopy and staining techniques, Bradford assay, spectrophotometry, ELISA, HPLC, PCR

## ***MEMBERSHIPS***

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- “Sociedad Ambientalista Universitaria”**, University of Puerto Rico-Aguadilla August 2016- Present
- American Chemical Society**, University of Puerto Rico-Aguadilla August 2013- Present  
- 2013-2017 Green Chemistry Division member
- “Asociación Universitaria Protectora de Animales”**, Aguadilla P.R. August 2013- Present
- Childhood Cancer Association**, University of Puerto Rico-Aguadilla August 2015-May 2016

## ***AWARDS & HONORS***

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- Magna Cum Laude Award** June 2017  
- University of Puerto Rico- Aguadilla
- Poultry Science MS Assistantship Award** February 2017  
- University of Georgia Graduate School-Athens
- Honor Student of the Natural Sciences Department** August 2016 – May 2017  
- University of Puerto Rico- Aguadilla

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**Honor Student of the Natural Sciences Department**

- University of Puerto Rico- Aguadilla

August 2015 – May 2016

**Honor Student of the Natural Sciences Department**

- University of Puerto Rico- Aguadilla

August 2014 – May 2015

**Honor Student of the Natural Sciences Department**

- University of Puerto Rico- Aguadilla

August 2013 – May 2014

***CERTIFICATIONS***

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**Protecting Human Research Participants**

**Certification number: 335194**

- NIH Office of Extramural Research

renovated: February 2017

***REFERENCES***

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- Available upon request