

Félix E. Rivera-Mariani, PhD

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Websites: <https://www.frivera.com>; <https://github.com/friveramariani>

lab website: <https://www.riplrt.com>

Work Experience

- 2017 – Present **College of Biomedical Sciences, Larkin University, Miami, FL**
Assistant Professor
- 2020 – Present **Vistazo A La Ciencia (a Glance at the Science)**
Co-Founder / Producer
<https://www.vistazoalaciencia.com>
- 2014 – 2017 **Miami-Dade College, Miami, FL**
Adjunct Professor (Biology, Microbiology, Biochemistry)
- 2013 – Present **Consultant**
Aerobiology, Immunology, Computational Biological/Non-Biological Data Analysis
- 2012 – 2015 **American Journal Experts**
Developmental Editor
- 2010 – 2013 **Johns Hopkins Bloomberg School of Public Health, Baltimore, MD**
Postdoctoral Fellow (NIH T32 Training Program)
- 2010 – 2013 **Education**
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
Postdoctoral Fellow (T32) in Environmental Health Sciences
(mentors: Patrick Breysse, PhD, Thomas Hartung, PhD, MD)
- 2004 – 2010 **School of Medicine, University of Puerto Rico, San Juan, PR**
PhD in Microbiology (mentor: Benjamín Bolaños, PhD)
- 2001 **Southeastern Louisiana University, Hammond, La**
BS in Biology, minor in Chemistry; Baseball Athletic Scholarship
- 2020 – Present **Additional Training**
University of Pittsburg
- Scholar, *Leading Emerging and Diverse Scientists to Success (LEADS)*
(<https://www.icre.pitt.edu/leads/index.html>)
- 2019 – 2020 **University of Arizona**
- Scholar, *Advanced Respiratory Research for Equity (AIRE) under the AZ – PRIDE*
(<https://diversity.medicine.arizona.edu/content/az-pride-program>)
- 2019 **University of Puerto Rico - Medical Sciences Campus**
Health Disparities: A Translational Research Approach (Online Course)
- 2016 - 2017 **Johns Hopkins University** (on www.coursera.org)
• *Mastering Software Development in R* (5-courses series)

University of California at San Diego (on www.coursera.org)

- *Bioinformatics* Specialization (7-courses series)

2016

Johns Hopkins University (on www.coursera.org)

- *Data Science Specialization* (10-courses series)
- *Genomic Data Science* Specialization (8-courses series)
- *Executive Data Science* Specialization (5-courses series)

Icahn School of Medicine at Mount Sinai (on www.coursera.org)

- *System Biology and Biotechnology* Specialization (6-courses series)

2015 – 2016

Johns Hopkins School of Public Health (on www.coursera.org)

- *Statistical Reasoning* for Public Health I: Estimation, Interference, Interpretation
- *Statistical Reasoning* for Public Health II: Regression Models

2013 – 2014

American Society for Microbiology, Washington, DC

- *Science Teaching Fellowship*

Publications

- Vélez-Torres L, Bolaños-Rosero B, Godoy-Vitorino F, **Rivera-Mariani FE**, Maestre J, Kinney KA, Cavallin H. Culture-Based Characterization of Fungal Communities in Homes in San Juan, Puerto Rico following Hurricane Maria. *Applied and Environmental Microbiology*. **Submitted**.
- **Rivera-Mariani FE**, Almaguer M, Jesus Aira M, Bolaños-Rosero B. Comparison of atmospheric fungal spore concentrations between two main cities in the Caribbean basin. *Puerto Rico Health Sciences Journal*. **Accepted**.
- Suárez-Martínez EB, **Rivera-Mariani FE**, Ocasio M, Arroyo G. Microbiome and Respiratory Diseases: A Study Using a Novel Non-invasive Saliva Sample Collection Method. *The FASEB Journal*. 2020. 34 (S1): 1-1.
- Nawaz J, Pullen F, **Rivera-Mariani FE**, Rizvi SAA, Sánchez-González MA, Grogan T. Spring is here, now what? Know the Differences between a Cold, Flu, Coronavirus, and Allergy. *Emerging Infect Dis Diag J*. 2020. EIDDJ-10010.
- **Rivera-Mariani FE**, Srour H, Romenko F, Bellinger S, and Stateman A. Profile of dendritic cells surface biomarkers in nasal and oral mucosa of human subjects reactive to grass pollen and house dust mites. *J Immunol*. 2019. 202 (1 Suppl) 55.18.
- Srour HH, Baguley JK, Bellinger SV, Stateman AJ, **Rivera-Mariani FE**. Comparing the magnitude of meteorological variables and air pollutants as contributing factors of atopic dermatitis symptoms. *J Allergy Clin Immunol*. 2019. 143(S2). AB235.
- Stateman AJ, Srour HH, Baguley JK, Bellinger SV, **Rivera-Mariani FE**. Comparison between PM2.5 levels on east coast and state of California in relationship to asthma. *J Allergy Clin Immunol*. 2019. 143(S2). AB24.

- Bellinger SV, Stateman AJ, Srour HH, Baguley JK, **Rivera-Mariani FE**. Evaluating differences in prevalence of food allergies between two geographic regions: Australia and US. *J Allergy Clin Immunol*. 2019. 143(S2). AB268.
- Baguley JK, Bellinger SV, Srour HH, Stateman AJ, **Rivera-Mariani FE**. Gender difference in dendritic cell population in nasal and oral cavity between allergen and non-allergic subjects. *J Allergy Clin Immunol*. 2019. 143(S2). AB228.
- **Rivera-Mariani FE**, Srour HH, Baguley JK, Bellinger SV, Stateman AJ, Bolaños-Rosero B. Relationship of serological reactivity to cytoplasmic extracts from spores of *Ganoderma applanatum* and commercial extracts of indoor, mitosporic fungi, and farm animal allergens among Puerto Rican subjects. *J Allergy Clin Immunol*. 2019. 143(S2). AB301
- Gaspar PM, Schreb CA, **Rivera-Mariani FE**. Hydration Status of Assisted Living Memory Care Residents. *J Gerontological Nursing*. 2019. 45(4): 21-29.
- Srour H, Fomenko R, Baguley J, Bellinger S, Jordan A, Sutton J, Santana M, Marull A, Abdalhuk M, **Rivera-Mariani FE**. Pilot study of publicly available data to evaluate the relationship between forest fires and emergency department visits due to asthma in the state of California [version 2; peer review: 1 approved]. *F1000Research* 2019, 7:1232
- Abdalhuk M, Jordan A, Wagimin R, Stamitoles C, Bellinger S, Baguley J, Srour H, Fomenko R, Sutton J, Santana M, Marull A, **Rivera-Mariani FE**. Evaluating the Association of Race, Ethnicity, and Food Allergens in the Development of Childhood Asthma: Re-Analysis of Publicly-Available Retrospective Cross-Sectional Cohort Data. *F1000Research*. 2018. 7:1209.
- **Rivera-Mariani FE** and Bolaños-Rosero B. Principal Component Analysis to Evaluate Relationships in Reactivity to Commercial Extracts and Uncharacterized Fungi among Asthmatic and Allergic Rhinitis Subjects. *J Immunol*. 2018 (1 Supp, 44.2).
- González de Leon J, González Méndez R., Cadilla Vázquez CL, **Rivera-Mariani FE**, Bolaños-Rosero, B. Serological Reactivity and Identification of Immunoglobulin E – Binding Proteins of Xerophilic Fungus *Aspergillus penicilloides* Crude Mycelial Mat Extract in Puerto Rican Atopic Subjects. *Int Arch Allergy Immunol*. 2018. 175: 147-159.
- Vila-Herester F, **Rivera-Mariani FE**, Bolanos-Rosero B. Serological reactivity and IgE-binding polypeptides to *Ganoderma applanatum* Cruse Spore Cytoplasmic Extract in Puerto Rico Subjects. *Int Arch Allergy Immunol*. 2017; 172:139–149.
- Bose S, **Rivera-Mariani FE**, Chen R, Williams D, Aloe, Belli D, Breysse, PN, Diette G, Hansel N. Domestic exposure to endotoxin and respiratory morbidity in former smokers with COPD. *Indoor Air*. 2016. 26(5): 734-42.
- Vesper S, Choi H, Perzanowski P, Acosta LM, Divjan A, Bolaños-Rosero B, **Rivera-Mariani FE**, Chew GL. Comparison of mold populations in settled dust and dust mite allergens in mattress dust samples in the Puerto Rico Health Regions. *Int J Environ Health Research*. 2016. 26(2): 198-207.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, **Rivera-Mariani FE**, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Addendum to

Evidence for the Detection of non-Endotoxin Pyrogens by the Whole Blood Monocyte Activation Test. *Altex*. 2014. 31 (4): 499.

- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, **Rivera-Mariani FE**, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Addendum to Evidence for the Detection of non-Endotoxin Pyrogens by the Whole Blood Monocyte Activation Test. *Altex*. 2014. 31 (2): 226.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, **Rivera-Mariani FE**, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Erratum to: Evidence for the Detection of non-Endotoxin pyrogens by the Whole Blood Monocyte activation test. *Altex*. 2013. 30 (3): 352.
- **Rivera-Mariani FE**, Vysyaraju K, Negherbon J, Levetin E, Horner WE, Hartung T, Breysse PN. Comparison of the interleukin-1 β -inducing potency of allergenic spores from higher fungi (Basidiomycetes) in a cryopreserved human whole blood system. *International Archives of Allergy and Immunology*. 2013. 163 (2): 154-62.
- **Rivera-Mariani FE**. Cryopreserved human whole blood: a human-based *in-vitro* immunotoxicological system expanded into environmental health and medical mycology studies. **Invited Special issue of ATLA**. 2013. 41(6): 483-90.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, **Rivera-Mariani FE**, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Evidence for the detection of non-endotoxin pyrogens (NEPS) by the whole blood monocyte activation test. *ALTEX*, 2013. 30(2): 169-208.
- **Rivera-Mariani FE**, Mihalic JN, Rule AM, Breysse PN. Immunodetection of airborne (1-3)- β -Dglucan-carrying particles with the Halogen immunoassay in occupational setting. *J Immunol Methods*. 2013. 388: 86-89.
- **Rivera-Mariani FE**, Matsui E, Breysse PN. Performance of the Halogen Immunoassay to Assess Airborne Mouse Allergen-Containing Particles in a Laboratory Animal Facility. *Journal of Exposure Science and Environmental Epidemiology*. 2012. 24 (1): 3-8.
- **Rivera-Mariani FE**, Vysyaraju K, Levetin E, Hartung T, Breysse PN. Determination of the Proinflammatory Potential of Spores from Different Basidiomycetes Species with a Human Whole Blood Assay. *J Immunol*. 2012; 188: AB55.13.
- **Rivera-Mariani FE** and Bolaños-Rosero B. Allergenicity of airborne basidiospores and ascospores: need for further studies. *Aerobiologia* 2012: 28(2): 83-97.
- **Rivera-Mariani FE**, Hartung T, Breysse PN. Evaluation of the Pro-inflammatory Activity of Basidiospores and Spore-bearing Tissue from the Mushroom *Chlorophyllum molybdites* using Human Whole Blood. *J Allergy Clin Immunol*. 2012; 129(2): AB18.
- **Rivera-Mariani FE**, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Skin Test Reactivity of Allergic Subjects to Basidiomycetes' Crude Extracts in a Tropical Environment. *Medical Mycology*. 2011. 49(8): 887-91.

- **Rivera-Mariani FE**, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Sensitization to Airborne Ascospores, Basidiospores, and Fungal Fragments by Allergic Rhinitis and Asthmatic Subjects in San Juan, Puerto Rico. *International Archives of Allergy and Immunology*. 2011; 155(4): 322-34.
- **Rivera-Mariani FE**, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Prevalence of IgE Reactivities by Rhinitis and Asthmatic Patients to Airborne Particulate. *J Allergy Clin Immunol*. 2010; 125(2): AB80.
- Quintero E, **Rivera-Mariani FE**, and Bolaños-Rosero B. Analysis of Environmental Factors and Their Effects on Fungal Spores and Pollen in the Atmosphere of a Tropical Urban Area (San Juan, Puerto Rico). *Aerobiologia*. 2010; 26(2): 113-124.

Science Teaching and Mentoring Publications

- **Rivera-Mariani, FE**. RNA-seq Data Analysis Workflow to Evaluate Differential Gene Expression between Fetus and Adult Brains from Publicly-Available Data as a Genomic Data Science Demonstration in an Upper Microbiology Course. Technical Report at Researchgate.com <http://dx.doi.org/10.13140/RG.2.2.14868.09604>
- **Rivera-Mariani, FE**. Peer-Evaluations as an Intervention Tool to Identify Students' Misconceptions and Interpretation Errors in the Streak-Plate Method in an Introductory Microbiology Lab Course. 2016. Technical-Report at Researchgate.com. <http://dx.doi.org/10.13140/RG.2.1.2693.5921>
- **Rivera-Mariani FE**. Rethinking our Postdoctoral Training. *Postdoctoral Journal*. 2012; 2 (2): 27-29.

Presented Abstracts

- **Rivera-Mariani FE**, Srour HH, Fomenko R, Maestre JP, Kinney K, Godoy-Vitorini F, Bolaños-Rosero B, Cavallin H. Pro-inflammatory potential of indoor dust collected from households in San Juan, PR in the aftermath of Hurricane Maria. Society of Toxicology Annual Meeting & ToxExpo 2019. Baltimore, MD. DOI: [10.7490/f1000research.1116637.1](https://doi.org/10.7490/f1000research.1116637.1)
- **Rivera-Mariani FE**, Levetin E, Hartung T, Breyse PN. Role of spores' surface area and endotoxin contamination in the proinflammatory potential of spores from allergenic basidiomycete fungi in a cryopreserved human whole blood system. *Gordon Research Seminar/Conference Immunology to Fungal Infections*. January 2013. Galveston, TX.
- **Rivera-Mariani FE**, Vysyaraju K, Negherbon J, Hartung T, Breyse PN, Hansel N. Assessment of the proinflammatory potential of indoor air particulate matter based on the cytokine release in a cryopreserved human whole blood system. *International Society for Exposure Science Annual Meeting*, October, 2012. Seattle, WA.
- **Rivera-Mariani FE**, Mihalic JN, Rule AM, Breyse PN. Immunodetection of (1-3)- β -D-glucan with the Halogen Immunoassay. Poster Presentation. *American Industrial Hygiene Association Annual Meeting*, June, 2012. Indianapolis, IN. **Best Poster in the Sampling and Laboratory Analysis Session**.
- **Rivera-Mariani FE**, Hartung T, Breyse PN. Evaluation of the Cooperative Proinflammatory Effect between Endotoxin and (1-3)- β -D-glucan with the *in-vitro* Pyrogen Test. Poster Presentation. *Society of Toxicology Annual Meeting* March, 2012, San Francisco, CA.

- **Rivera-Mariani FE**, Matsui E, Breysse PN. Immunodetection of Airborne Particulate Carrying Mouse Allergen. Poster Presentation. *International Society for Exposure Science Annual Meeting*, October, 2011. Baltimore, MD.
- **Rivera-Mariani FE**, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Airborne Ascospores and Basidiospores as Potential Allergens for Allergic Respiratory Diseases. Oral Presentation. International Association for Aerobiology 9th *International Congress on Aerobiology*, August, 2010. Buenos Aires, Argentina.
- **Rivera-Mariani FE**, Nazario-Jiménez S, and Bolaños-Rosero B. Prevalence of IgE Reactivities to Airborne Particulate by Asthmatic Subjects. Oral Presentation. *Pan-American Aerobiology Association Annual Meeting*, July, 2009. Kansas City, MO.
- **Rivera-Mariani FE**, Quintero E, and Bolaños-Rosero B. Fungal Spore in the Atmosphere of San Juan and Caguas: A Comparative Study. Oral presentation. *Pan-American Aerobiology Association Annual meeting*, June, 2007. Penn State University, Stage College, PA.
- Quintero E, **Rivera-Mariani FE**, and Bolaños-Rosero B. Fungal Spore and Pollen in the Atmosphere of San Juan. Poster presentation. *Pan-American Aerobiology Association Annual Meeting*, June 2007. Penn State University, Stage College, PA.

Research Awards

- 2019 **Title of Pilot Study:** Immune and Epigenetic Signatures Related to Post-Hurricane Maria Indoor Contamination in Puerto Rico
Project Number (and PI): R25HL126140 (Multi-PI Joe Garcia, Francisco Moreno, Sairam Parthasarathy)
Amount Awarded: \$14688 (Pilot Study under a training within project R25HL126140)
Role: PI of Pilot Study
- 2019 **Title:** Linking Microbial, SVOC and Pro-Inflammatory Exposures in Homes to Childhood Asthma Severity: A Community Filter Forensics Approach
Project Number (and PI): HUD126513356 (PI Kerry Kinney)
Amount Awarded: \$700,000
Role: Collaborator, *Sub-Award Principal Investigator (\$76,931)*
- 2018 **Title:** Taking a Breath after the Disaster: Homes, Molds and Health in Puerto Rico after Hurricane
Project Number (and PI): R21ES029762 (PI Humberto Cavallin)
Amount Awarded: \$408, 316
Role: Collaborator, *Sub-Award Principal Investigator (\$15,500)*
- 2013 **Title:** Genetic Susceptibility to Asthma and Indoor Air Pollution in Peru
Project Number (and PI): 3R01ES018845-04S1 (PI, Nadia Hansel)
Amount Awarded: \$410, 571
Role: Postdoctoral Collaborator (under Patrick Breysse, PhD, and Thomas Hartung, PhD)
- 2012 **Ethical Consumer Association, London, UK**
Award: Lush Prize Young Researcher Award
Amount: \$20,000

- 2011 **Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD**
Award: David Leslie Swift Fund in Environmental Health Engineering
Amount: \$2,000
- 2010 **International Association for Aerobiology, Buenos Aires, Argentina**
Award: Young Aerobiologist Award
Amount: \$1000

Travel Awards

- 2019 **Minority Scientist Travel Award, San Diego, CA**
American Association of Immunologists
- 2018 **Early Career Faculty Travel Award, Austin, TX**
American Association of Immunologists
- 2013 **Immunology of Fungal Infections, Gordon Conference, Galveston, TX**
Carl Storm Underrepresented Minority Fellowship Travel Award
- 2012 **International Society for Exposure Science, Seattle, WA**
New Researcher Travel Award
- 2012 **American Academy of Allergy, Asthma and Immunology, Orlando, FL**
Domestic Fellows-in-Training Travel Award
- 2011 **Federation of American Societies for Experimental Biology, Virginia Beach, VA.**
Minority Access to Research Careers Travel Award
- 2010 **American Academy of Allergy, Asthma and Immunology, New Orleans, LA**
Fellow-in-Training Travel Award
- 2010 **International Association for Aerobiology Meeting, Buenos Aires, Argentina**
Latin American Travel Award
- 2009 **Pan American Aerobiology Association, Kansas City, MO**
Latin American Travel Award
- 2007 **Pan American Aerobiology Association, State College, PA**
Lanzoni's Student Award

Conferences and Invited Talks

- **2019 Annual Biomedical Research Conference for Minority Students**, Anaheim, CA. Workshop session: Deconvoluting disease biomarkers with computational tools. Workshop Title: Computational and system biology to identify biomarkers in environmental health studies: from indoor pollution to the aftermath of Hurricane Maria. **November 13 – 15, 2019.**
- **University of Puerto Rico - Ponce Campus.** Guest Lecture. "The Interphase of biomedical sciences and data analytics: which one goes first?". Sponsored by the University of Puerto Rico - Ponce Campus Research Initiative for Scientific Enhancement. **January 24, 2019.**
- **AAAS Florida Biomedical Career Symposium.** Jupiter, FL (Scripps Institute). Panelist. Science Education Careers. **January 29, 2018.**

- **University of Puerto Rico – Carolina Campus.** Workshop: Image analysis in biological sciences (from western blot to data-driven decisions). **June 2017.**
- **Math and Sciences Specialized High School Thomas Armstrong Toro. Ponce, PR. 2016 and 2017.** Workshop. “Doing Science: From Start to Finish”. **January 2016 and 2017.**
- **9th Annual NIH Career Symposium, Bethesda, Maryland.** Panelist. Teaching-intensive careers. **May 2016.**
- **Department of Microbiology, School of Medicine, University of Puerto Rico – Medical Sciences Campus. San Juan.** Guest Lecture. Immunological intervention to evaluate the human health effects of indoor and outdoor biological and non-biological airborne contaminants. **February 2015.**
- **Department of Biology, University of Puerto Rico – Bayamon Campus. Bayamon, PR.** Guest Lecture. Immunological intervention to evaluate the human health effects of indoor and outdoor biological and non-biological airborne contaminants. **March 2015.**
- **Department of Microbiology, College of Medical Sciences, Nova Southeastern University, Davie, FL.** Guest Lecture. A Review of fungi relevant to dentistry. **August 2013.**
- **National Postdoctoral Association 11th Annual Meeting.** Guest Lecture. Postdoc diversity: solution for faculty diversity. Co-presenter with Dr. Jennifer Cohen and Dr. Cara Altimus. Charleston, SC. **March 2013.**
- **Department of Biology of the College of Sciences and Technology, Southeastern Louisiana University, Hammond, LA.** Guest Lecture. Allergenicity and proinflammatory potential of uncharacterized airborne fungi. **October 2012.**

Professional Memberships

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| 2018 – Present | America Thoracic Society |
| 2017 – Present | American Association of University Professors |
| 2012 – Present | Sigma Xi, The Scientific Research Society |
| 2011 – Present | American Association of Immunologists |
| 2011 – Present | Society of Toxicology |
| 2010 – Present | American Association for the Advancement of Science |
| 2009 – Present | American Academy of Allergy, Asthma and Immunology |
| 2002 – Present | American Society for Microbiology |

Leadership and Committee Work

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|-----------------------|---|
| 2018 | American Association for the Advancement of Science Session Proposal Reviewer |
| 2018 - Present | Larkin University Pre-Professional Recommendations Committee, College of Biomed. Sci. (<i>Chair</i>) Faculty Affairs Committee (<i>Member</i>) Scholarship Committee (<i>Member</i>) Research Advisory Committee (<i>Chair: 2018 - 2020</i>) |

Capital Allocation Planning Committee (*Member*: 2018 - 2020)
Scientific Forum Organizing Committee (*Chair*: 2018)

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| 2010 – 2014 | National Postdoctoral Association Resources Development Committee |
| 2011 – 2013 | Johns Hopkins Postdoctoral Association Professional Development Committee |
| 2006 | Puerto Rico Legislature <i>Ad Hoc</i> Committee, Law 136 of July 27 th , 2006 – Regional Medical Academic Centers |
| 2005 – 2009 | University of Puerto Rico – Medical Sciences Campus President, General Student Council |
| 2005 – 2009 | University of Puerto Rico – Medical Sciences Campus Student Disciplinary Board |
| 2005 – 2009 | University of Puerto Rico – Medical Sciences Campus Academic Senate (<i>Ex-Officio</i>) |
| | <u>Editorial Activities</u> |
| 2020 – Present | American Academy of Allergy, Asthma, and Immunology <i>Abstract Reviewer</i> |
| 2017 – Present | Annals of Agricultural and Environmental Medicine <i>Peer-reviewer</i> |
| 2017 | Annual Biomedical Research Conference for Minority Students 2017 <i>Judge of Posters and Presentations</i> |
| 2017 – Present | Annual Biomedical Research Conference for Minority Students <i>Abstract Reviewer</i> |
| 2015 – Present | Conrad Spirit Innovation Challenge <i>Proposal Reviewer</i> |
| 2013 – Present | Sigma Xi Student Research Showcase <i>Abstract Reviewer</i> |
| 2011 – Present | Aerobiologia <i>Ad Hoc Reviewer</i> |
| 2011 – Present | SACNAS National Conference <i>Abstract reviewer</i> |
| 2013 | Journal of Postdoctoral Research <i>Editor</i> |
| 2012 – 2013 | Johns Hopkins Postdoctoral Association |

Co-Editor Quarterly Newsletter

2011 – 2012 **Society of Toxicology**
Ad Hoc Reviewer, Occupational, Public Health section

Mentoring Experience

2017– Present

College of Biomedical Sciences, Larkin University

Respiratory and Immunology Project and Laboratory (<https://www.riplrt.com>)

- *Current Mentees*
 - Chris Ramos (2020 – Present)
 - Brie Puerdue (2019 - present: Graduate Student)
- *Summer 2019 Interns*
 - Tanha Rahman (undergraduate student, Nova Southeastern Univ.)
 - Naziba Nuha (undergraduate student, Nova Southeastern Univ.)
- *Past Mentees*
 - Josh Baguley (2018 – 2020)
 - Donna Oh (2019 – 2020)
 - Nicole Bernavides (2019 – 2020)
 - Shana Zadron (2019 – 2020)
 - Kylie Dagio (2019 – 2020)
 - Adria Guajardo (2019 - 2020)
 - Hayat Srour (2018 – 2020)
 - Ruslan Fomenko (2018 - 2019)
 - Summer Pellechio (2019)
 - Bhavik Patel (2019)
 - Shandra Bellinger (2018 - 2019)
 - Ariel Stateman (2018 - 2019)

Department of Microbiology, School of Medicine, University of Puerto Rico

- 2020 – Present - Xaymara Hernández González (*MS Thesis Committee*)
- 2018 – Present - Lorraine N. Vélez-Torres (*PhD Thesis Committee*)
- 2015 – 2018 - Isabelita Martínez (*MS Thesis Committee*)
- 2014 – 2017 - Frances Vila (*MS Thesis Committee*)
- 2014 – 2015 - Angélica M. Rivera (*Research Initiative for Scientific Enhancement awardee*)

2011– 2013

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

- Dr. Jesse Negherbon (Dr. Breyse graduate student; NIOSH grant awardee)
- Kranthi Vysyaraju (Dr. Hartung's graduate student)

Courses Taught

2017 – Present

College of Biomedical Sciences, Larkin University, Miami, FL

Summer Term

Molecular Genetics (MSB520)

Spring Term

Biochemistry 2 (MSB502)

Immunology (MSB 511)

Fall Term

Biochemistry 1 (MSB501)

2017 – 2018

Miami Dade College, Miami, FL

Fall Term

General Education Biology (BSC1005)

Microbiology (MCB2010)

Microbiology Lab (MCB2010L)

2016 – 2017

Miami Dade College, Miami, FL

Summer Term

General Education Biology (BSC1005)

Microbiology Lab (MCB2010L)

Microbiology Lab (MCB2010L)

Spring Term

General Education Biology (BSC1005)

Fall Term

Principles of Microbiology (MCB3023)

Microbiology Lab (MCB3023L)

2015 – 2016

University of Puerto Rico - School of Medicine, San Juan, PR

Spring Term

Principles of Immunology (invited professor)

Miami Dade College, Miami, FL

Summer Term

Principles of Biology 2 (BSC2011, section 1247)

Microbiology Lab (MCB2010L, section 1732)

Spring Term

General Education Biology (BSC1005, section 6941)

Microbiology Lab (MCB2010L, section 8955)

Fall Term

Intro Biochemistry (BCH3023, section 1988)

General Education Biology (BSC1005, section 2514)

Microbiology Lab (MCB2010L, section 1774)

Microbiology Lab (MCB2010L, section 1777)

2014 – 2015

Miami Dade College, Miami, FL

Summer Term

Microbiology Lab (MCB2010L, section 1773)

Microbiology Lab (MCB2010L, section 1774)

Microbiology Lab (MCB2010L, section 1775)

Spring Term

General Education Biology (BSC1005, section 3369)

Microbiology Lab (MCB2010L, section 2230)

Microbiology Lab (MCB2010L, section 2231)

Fall Term

Intro Biochemistry (BCH3023, section 2546)

Intro Biochemistry Lab (BCB3023L, section 6164)

Microbiology Lab (MCB2010L, section 2226)

Microbiology Lab (MCB2010L, section 2230)

2013 – 2014

Miami Dade College, Miami, FL

Summer Term

Microbiology Lab (MCB2010L, section 1732)

Microbiology Lab (MCB2010L, section 1764)

Microbiology Lab (MCB2010L, section 1766)