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**Martin Rosario, Ph.D.**  
**Assistant Professor**  
**Physical Therapy**  
**College of Health Sciences**  
[mrosario1@twu.edu](mailto:mrosario1@twu.edu)

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### **Academic Background**

Ph.D. Universidad de Puerto Rico, Human Anatomy (Neurobiology Emphasis), 2016.

M.S. University of Puerto Rico Med Sci Campus, 2006.

B.S. University of Puerto Rico, Bayamon Campus, Biology Human Approach, 2004.

### **Professional Certifications**

Functional Fitness Trainer, 2018

Kettlebell Trainer, 2018

Meditation Instructor, 2018

Senior Fitness Instructor, 2018

Stress Management Coach, 2018

Balance Trainer, 2017

Group Fitness Instructor, 2017

Personal Trainer, 2017

Aquatic Therapy Rehabilitation Institute Therapist, 2016

Automated external defibrillator Instructor, 2016, American Red Cross.

Cardiopulmonary Resuscitation Instructor, 2016, American Red Cross.

Recreational Leader, Advance Level, 2016

Licensed Physical Therapist, 2007, Puerto Rico.

### **Professional Memberships**

American Physical Therapy Association, 2016-Present

American College Sport Medicine (ACSM), 2010-Present

American Physiology Society (APS), 2010-2015

Society for Neuroscience (SFN), 2010-2012

National Exercise and Sport Trainers Association (NESTA), 2009-Present

American Anatomy Association (AAA), 2009 - Present

International Fitness Association (IFA), 2009 - Present

CMS, Center for Medicare & Medicaid, 2008 - 2012

Graduate Student Association, UPR, Medical Sciences Campus, 2008 - 2010

### **Work Experience**

#### **Work Experience**

##### **Academic**

Clinical Research Coordinator, La Perla de Gran Precio HIV nonprofit Org Institution (2018 - Present), San Juan, Puerto

Rico.

Research Preceptor, Ponce Health Sciences University Public Health Program Applied Practice Experience Internship (2018 - Present), San Juan, Puerto Rico.

Assistant Professor, Texas Woman's University (August, 2016 - Present), Dallas, Texas.

Director and Principal Investigator, Biomechanics Laboratory, University of Puerto Rico, Physical Therapy Program (2012 - 2016), San Juan, Puerto Rico.

Adjunct Professor, University of Puerto Rico, Medical Sciences Campus, Physical Therapy Program (August, 2012 - 2016), San Juan, Puerto Rico.

### **Non-Academic**

Physical Therapy Supervisor, Perla de Gran Precio (June, 2012 - Present), Hato Rey, Puerto Rico.

Physical Therapist, Perla de Gran Precio (December, 2010 - December, 2012), Hato Rey, Puerto Rico.

Co-Director/Physical Therapist, Physical Therapy and Athletic Training of Track and Field (July, 2010 - July, 2010), Mayaguez, Puerto Rico.

Physical Therapist, Professional Therapy Bayamon (October, 2007 - October, 2009), Bayamon, Puerto Rico.

Physical Therapist, Puerto Rico Olympic Committee (Pan-American first division Cuba) (November, 2007 - November, 2007), San Juan, Puerto Rico.

Physiotherapist Evaluator, Enfermería Visitante Gregoria Auffant (January, 2006 - January, 2008), San Juan, Puerto Rico.

Supervisor of Sport Medicine Department and Physical, San Juan Bautista Medical Center Hospital (January, 2006 - January, 2007), San Juan, Puerto Rico.

Auxiliary Technician, Puerto Rico Olympic Committee Centro American at Santo Domingo (June, 2006 - June, 2006), San Juan, Puerto Rico.

Auxiliary Technician, Puerto Rico Olympic Committee Pana-American at Brazil (July, 2006 - July, 2006), San Juan, Puerto Rico.

### **Consulting Experience**

2010 – 2019: La Perla de Gran Precio HIV nonprofit Org Institution

### **Teaching**

#### **Courses Taught**

**Courses from the Teaching Schedule:** Advanced Practicum in Physical Therapy, Clinical Integration II, Clinical Neuroscience, Critical Inquiry in Physical Therapy I, Critical Inquiry in Physical Therapy II, Critical Inquiry in Physical Therapy III, Female (Cadaver) Anatomy for Physical Therapist, Human Gross Anatomy, Independent Study, Medical Kinesiology, Special Topics, Therapeutic Exercise and Intervention I

**Courses taught, but not in the Schedule:**

Advanced Upper Extremity Review-Clinicians (November, 2017-2018)

Advanced Lower Extremity Review-Clinicians (October, 2017-2018)

Upper Extremity Anatomy Occupational Therapy Students (Summer 2017-present)

#### **First Year, Second Semester Doctor in Physical Therapy**

TEFI 7051- Pathophysiology I (Role of Physical Therapist)

TEFI 7031-Evidence Based Practice First Year, Summer Session Doctor in Physical Therapy

TEFI 7065-Physical Agents

TEFI 7067-Imaging for Physical Therapy

#### **Second Year, First Semester DPT**

TEFI 7032-Evidence Based II

#### **Second Year, Second Semester DPT**

TEFI 7207-Clinical Management of Integumentary Dysfunctions

TEFI 7201-Research Project I, Research Mentor

**Teaching Activities**

**Doctoral Dissertation Student Committee - Member**

2018 - *Language Barrier, Cultural Differences, and Parent Expectation of Family-Centered Care in Pediatrics Home Health Therapy*

2017 - *Language Barrier, Cultural Differences, and Parent Expectation of Family-Centered Care in Pediatrics Home Health Therapy*

2016 - *Exploring the Hydration Habits, Mornings Balance, and Fall of Institutionalized Older Adults.*

**Doctoral Student Critical Inquiry - Chair**

2019 - *Pushing a Sled: Assessing its Impact on Gait and Neuromuscular Activation.* 3 students.

2019 - *Impact of energy drink in kinematics and neuromuscular activity on dynamic balance.* 2 students.

2019 - *Dynamic and Motor Control in HIV Individuals.* 4 students.

2018 - *Pushing a Sled: Assessing its Impact on Gait and Neuromuscular Activation.* 3 students.

2018 - *Dynamic and Motor Control in HIV Individuals.* 2 students.

2018 - *Impact of energy drink in kinematics and neuromuscular activity on standing balance.* 2 students.

2018 - *Impact of energy drink in kinematics and neuromuscular activity on dynamic balance.* 2 students.

2017 - *Impact of energy drink in kinematics and neuromuscular activity on dynamic balance.* 2 students.

2017 - *Dynamic and Motor Control in HIV Individuals.* 2 students.

2017 - *Impact of energy drink in kinematics and neuromuscular activity on standing balance.* 2 students.

**Doctoral Student Project Committee - Chair**

2016 - *The Impact of Energy Drinks to Postural Control.* 2 students.

2015 - *Balance and sensibility impairments in adults with HIV, effectiveness of and exercises program.* 3 students.

2014 - *Standing Balance in children with Autism Spectrum Disorder.*

2013 - *Gait Deficiencies in People with Controlled type II Diabetes Mellitus During Ascending and Descending Irregular Surfaces* 3 students.

2013 - *Static Postural Control Evaluation in Subjects with Diabetes Mellitus.*

2012 - *Concurrent Validity between Two-Dimensional and Three-Dimensional Motion System for the evaluation of Dynamic Knee Valgus during a drop jump task* 3 students.

**Other Teaching Activities**

2019 - *Frisco ISD Independent Mentor Program.*

2018 - *Advanced Practicum in Anatomy.*

2018 - *Advanced Practicum in Anatomy.*

2017 - *Advanced Practicum in Anatomy.*

**Intellectual Contributions**

**Intellectual Contributions Grid**

| Category                      | Total |
|-------------------------------|-------|
| Articles in Refereed Journals | 12    |
| Articles-in-Progress (All)    | 4     |

## Refereed Articles

- Rosario, M. (2019). Evaluating static postural control in subjects with controlled-diabetes mellitus II. *Journal of Human Sport and Exercise*.
- Rosario, M. (2019). Anatomy Observational Outreach: A Multimodal Activity to Enhance Anatomical Education in Undergraduate Students. *Anatomical Sciences Education*.
- Rosario, M. G. (2019). The Perceived Benefit of Short Term Service Trip of Students and Participants while Working in an HIV Community Center in Puerto Rico. *F1000 Research*.
- Rosario, M. (2018). Autonomic nervous system assessment in people with HIV: A cross-sectional study [version 1; referees: awaiting peer review]. *F1000 Research*, doi: 10.12688/f1000research.14685.1.
- Rosario, M. G., Quiles, N., & Ortiz, A. (2018). Balance as an assessment of health-related quality of life in people living with HIV. *Journal of Human Sport and Exercise*, doi: doi:https://doi.org/10.14198/jhse.2019.142.20.
- Rosario, M. g., Orozco, E., Babilonia, N., Tellez, G., & Mojica, F. (2018). Evaluation of controlled type II diabetics ascending and descending a ramp surface at an imposed speed: A case-control study. *F1000 Research*.
- Rosario, M., Lopez, L., Mendez, M., Ababneh, A. F., & Gonzalez-Sola, M. (2018). Proprioception and vestibular alterations affect postural control in children with mild autism: A pilot study. *F1000 Research*.
- Rosario, M. G., Collazo, H., Mateo, M., Gonzalez-Sola, M., & Bayron, F. (2017). INCREASED STATIC POSTURAL SWAY AFTER ENERGY DRINK CONSUMPTION A RANDOMIZED TRIAL. *F1000 Research*, doi: 10.12688/f1000research.12565.1.
- Ortiz, A., Rosario, M., Rodriguez-Lafontaine, A., Seda, A., Figueroa, C., Venegas-Rios, H. (2016). Reliability and Concurrent Validity Between Two-Dimensional and Three-Dimensional Evaluation of Knee Valgus During Drop Jumps. *Journal of Sports Medicine*.
- Ortiz, A., Ramirez-Marrero, F., Rosario, M., & Venegas-Rios, H. (2014). Long-Term Participation in a Community-Based Fitness Program for Hispanic Adults Living with HIV Influences Health-Related Outcomes Fitness in Hispanic Adults Living with HIV *Journal of Physical Therapy & Health Promotion*, 2 (1), 1-7, doi: DOI: 10.18005/PTHP0201001.
- Ortiz, A., Trudelle-Jackson, E., Rosario, M., & Venegas-Rios, H. (2011). Landing Mechanics During Side Hopping and Crossover Hopping Maneuvers in Non-injured Women and Women with Anterior Cruciate Ligament Reconstruction. *PM&R (Philadelphia, 2009) : The Journal of Injury, Function and Rehabilitation*, 3(1), 13-20.
- Rosario, M., Vazquez, W., & Ortiz, A. (2008). Internal Consistency of the CHAMPS Physical Activity Questionnaire for Spanish Speaking Older Adults. *Puerto Rico Health Sciences Journal*, 27 (3), 224-228.

## Refereed Proceedings

- Rosario, M., Gines, G., Orozco, E., Wade, C., & Bayron, F. (2019). Benefits of a Tailor Exercise Program in Individuals with HIV Participating in a Community-Based HIV Clinic. *International Society of Physical Therapy and Rehabilitation Medicine*.
- Rosario, M. G., Hanrahan, C., Correa, A., Slack, T., & Guthrie, K. (2019). Human Cadaver Anatomical Variation of the Extrinsic Musculature of the Thumb. *Experimental Biology*.
- Rosario, M., Medley, A., Gonzalez, M., & Weber, M. (2019). Anatomage Virtual Dissection Table: a Supplemental Learning Aid for Human Anatomy Education During an Undergraduate Outreach Activity. *Experimental Biology*.
- Rosario, M., Hyder, A., & Gonzalez, M. (2019). 3D Anatomy Application (App): a Supplemental Learning Aid for Upper Extremity Anatomy Occupational Therapy Courses. *Experimental Biology*.
- Gonzalez, M., Hyder, A., & Rosario, M. (2019). Anatomy Observational Outreach: a Multimodal Activity to Enhance Anatomical Education in Undergraduate Students. *Experimental Biology*.
- Deschamp, L., Rosario, M., Hammer, L., Gines, G., & Bayron, F. (2019). Adults Diagnosed with HIV report Decreased balance confidence compared to Non-Fallers Older Adults. *American College of Sports Medicine Annual Meeting*.
- Orozco, E., Wade, C., Gines, G., & Rosario, M. (2019). Overall Fitness benefits in Individuals with HIV participating in a Community- Based Exercise Program. *American College of Sports Medicine Annual Meeting*.
- Hammer, L., Marshall, J., & Rosario, M. (2019). VESTIBULAR AND PROPRIOCEPTIVE ALTERATION INFLUENCE POSTURAL INSTABILITY DURING DUAL TASKS IN ADULTS DIAGNOSED WITH HIV. *American College of Sports Medicine Annual Meeting*.

- Bayron, F., Hammer, L., Gines, G., Marshall, J., & Rosario, M. (2019). Reduced Balance Confidence in Adults Diagnosed with HIV. *International Society of Physical and Rehabilitation Medicine*.
- Rosario, M. (2019). Pushing a Sled: Assessing its Impact on Gait Temporospacial Parameters in Young Healthy Adults. *62nd Annual Meeting American College of Sports Medicine*.
- Rosario, M. (2018). Energy Drinks can Modify the CNS by Increasing Postural Sway and Center of Pressure. *American Physical Therapy Association, Annual Conference*.
- Rosario, M. (2018). Human Anatomy Observational Activity or TWU Undergraduates. *Experimental Biology San Diego 2018*.
- Mathis, M., Hammer, L., Chambers, P., Marshall, J., & Rosario, M. (2018). Anatomical Variations of the Axillary Artery of Humans Cadavers. *Experimental Biology San Diego 2018*.
- Rosario, M. (2018). Orthostatic Hypotension in People with Human Immunodeficiency Virus. *Experimental Biology San Diego 2018*.
- Rosario, M. (2017). Energy Drinks Can Increase in Postural Sway. *Annual Regional Meeting of the South Central American Society of Biomechanics*
- Rosario, M. (2017). Gastrocnemius and Tibialis and Tibialis Anterior neuromuscular Activity Alteration in Adults with Control typed two diabetes mellitus during standing postural control. *Experimental Biology Chicago 2017*.
- Rosario, M. G. (2017). Energy Drinks might alter the CNS by Increasing Postural Sway. *UPR-Medical Sciences Campus 37th Annual Research and Education Forum*.
- Rosario, M. (2016). Proprioception and Vestibular Impairments affects Static Postural Control in Children with Mild Autism Spectrum Disorder: A Pilot. *Combined Section Meeting of the American physical Therapy Association to be held Anaheim California, February, 2016*.
- Rosario, M. (2016). Proprioception and Vestibular Impairments affects Static Postural Control in Children with Mild Autism Spectrum Disorder: A Pilot. *Annual Forum RCM Puerto Rico 2016*.
- Rosario, M. (2016). The Expression of Gait Deficiencies in Patients with Controlled Type II Diabetes Mellitus. *Combined Section Meeting of the American physical Therapy Association to be held Anaheim California, February, 2016*.
- Rosario, M. (2016). Medio-Lateral Postural Control Instability Is Associated To Proprioception Deficiencies In Children With Mild Autism. *American College Sport Medicine and World Congress on Exercise held in Boston June 2016*.
- Rosario, M. G. (2016). Medio-Lateral Postural Control Instability Is Associated To Proprioception Deficiencies In Children With Mild Autism. *UPR-Medical Sciences Campus 36th Annual Research and Education Forum. Oral Presentation*.
- Rosario, M. (2016). Gait Adjustments in People with Controlled Diabetes Type II During Ramp Task at Different Speeds. *Combined Section Meeting of the American physical Therapy Association to be held Anaheim California, February, 2016*.
- Rosario, M., Dunbar, D. C., & Ortiz, A. (2015). Vestibular and Proprioception Deficits in Adults with Controlled Diabetes Mellitus II Causes Postural Control Instability. *Experimental Biology Boston 2015*.
- Rosario, M., & Ortiz, A. (2015). Standing Balance and Dementia As Predictors Of Quality Of Live In Adults With HIV. *American College of Sports Medicine Annual Meeting*.
- Rosario, M., & Ortiz, A. (2014). Balance Assessment in Adults Diagnosed with HIV. *Combined Section Meeting of the American Physical Therapy Association held in Las Vegas, Nevada*
- Rosario, M., Seda, A., Figueroa, C., Rodriguez, A., & Ortiz, A. (2014). Comparison between Two- Dimensional and Three-Dimensional Motion Systems for the Assessment of Knee Injury Predisposing Factors. *Combined Section Meeting of the American physical Therapy Association to be held Las Vegas Nevada*
- Gonzalez, M., Rosario, M., Rosado, A., & Ortiz, A. (2013). Balance and Sensibility Impairments in Adults Diagnosed with HIV: Effectiveness of an Exercise Program. *American College Sport Medicine 60th Annual Meeting and 4nd World Congress on Exercise held in Indiana Indianapolis*
- Rosario, M., Alexie, H., Figueroa, C., Rodriguez, A., Dunbar, D., Ortiz, A (2013). Validity between Two Dimensional and Three Dimensional Systems for the Evaluation of Walking Tasks. *Annual Forum*.
- Rodriguez, A., Figueroa, C., Seda, A., Rosario, M., & Ortiz, A. (2013). Concurrent Validity between Two-Dimensional and Three-Dimensional Motion Systems for the Evaluation of Dynamic Knee Valgus during a Drop Jump Task. *Combined Section Meeting of the American physical Therapy Association held San Diego*
- Rosario, M., Rosado, A., & Ortiz, A. (2012). Balance and Sensibility Impairments in Adults Diagnosed with HIV: Effectiveness of an Exercise Program. *American Association for the Advancement of Science (AAAS) San Juan Puerto Rico*.

Rosario, M., Garcia, G., & Ortiz, A. (2012). Effectiveness of an Exercise Program in Improving Balance in Adults Diagnosed With HIV. *Asociación Médica Latinoamericana de Rehabilitación (AMLAR) Santo Domingo*.

Mojica, F., Rosario, M., Garcia, G., & Ortiz, A. (2012). Effectiveness of an Exercise Program in Improving Balance in Adults Diagnosed With HIV. *American College Sport Medicine 61th Annual Meeting and 5th World Congress on Exercise, Held in San Francisco*

Rosario, M., & Ortiz, A. (2011). Pelvic Kinematics Between Healthy Women And Women With ACL Reconstruction During a Drop Jump. *Experimental Biology Washington, DC*.

Rosario, M., Acevedo, J., & Diaz, M. (2010). Assessing the role of sensory information to the spinal locomotor network after the loss of descending brain inputs. *Puerto Rico Neurosciences, Bayamon Interamericana*.

Acevedo, J., Rosario, M., & Diaz, M. (2010). Assessing the role of sensory information to the spinal locomotor network after the loss of descending brain inputs. *Society for Neurosciences, San Diego Convention Center*.

Ortiz, A., Rosario, M., Rivas, L., & Trautmann, M. (in press, 2010). Landing Strategies During Drop Jumps Between Noninjured Women and Women with ACL Reconstruction. *International Federation of Sports Medicine, XXXI FIMS World Congress in San Juan Puerto Rico*.

Rosario, M., & Ortiz, A. (2010). Neuromuscular Timing during Drop Jumps Between Healthy Women And Women With Semitendinosus-gracilis ACL Reconstruction. *57th Annual Meeting and inaugural World Congress on Exercise in Medicine of the American College of Sports Medicine, Medicine & Science in Sports & Exercise*

Rosario, M., & Ortiz, A. (2010). Neuromuscular Timing Between Healthy Women And Women With Semitendinosus-gracilis ACL Reconstruction During Drop Jumps. *XXX Annual Forum. University of Puerto Rico Medical Campus*.

Rosario, M., Vasquez, J., & Ortiz, A. (2007). Internal Consistency of the CHAMPS Physical Activity Questionnaire for Spanish Speaking Older Adults. *American College Sport Medicine, New Orleans Annual Meeting*.

## Grants

### Research

2019: Rosario, M. Research Enhancement Program, Principal Investigator, TWU.

2019: Rosario, M. Woodcock Grant, Principal Investigator, TWU.

2017: Rosario, M. G. Research Enhancement Program, Principal Investigator.

### Service

2018: Gonzalez, M. & Rosario, M., Faculty Research Award, Co-Investigator, West Coast University.

2017: Rosario, M. Judge Travel Award for 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Annual Biomedical Research Conference for Minority Students (ABRCMS), Principal Investigator.

### Teaching

2017: Rosario, M. & Gonzalez-Sola, M., Educational Research Scholarship, Principal Investigator.

2017: Rosario, M., Medley, A., & Weber, M., Teaching and Research Grant for Equipment and Technology, Principal Investigator, TWU.

### Training

2018 [Year 1 of 2]: Rosario, M. G. Graduate Research Associate Award, Principal Investigator, TWU.

## Papers Under Review

Rosario, M. (2019). "Case Report: Human Cadaver Anatomical Variations of the Forearm Extrinsic Musculature of the Thumb," Initial submission to *Clinical Anatomy*.

Rosario, M. G. (2019). "3D Anatomy Application (App): a Supplemental Learning Aid for Upper Extremity Anatomy Occupational Therapy Courses," Initial submission to *Anatomical Sciences Education*.

Rosario, M. & Orozco, E. (2019). "Early Signs of Standing Postural Instability in Asymptomatic Persons with HIV during a Multitask Balance Test," Initial submission to *Journal of Human Sport and Exercise*,.

## Working Papers

Rosario, M., Orozco, E., Nieves, S., & Gonzalez-Sola, M. (2018). "Standing Postural Instability in Asymptomatic Persons with HIV," targeted for *Journal of Vestibular Research*.

## Other Research

### Other Research Activities

2019: Rosario, M., *The Role of HIV Antiretroviral Medication on Motor-Cognitive Neurological Alterations in Hispanic People Living with HIV.*

2018: Rosario, M., *The Role of HIV Antiretroviral Medication on Motor-Cognitive Neurological Alterations in Hispanic People Living with HIV.*

### Special Projects or Assignments

2019: Rosario, M., *Therapeutic Ultrasound Effect in Upper and Lower Limb Cadaver Tendons.*

2019: Rosario, M., & Gonzalez, M., *The Effect of Calcium Intake on Hand Grip Strength and Neuromuscular Timing in Healthy Young Adults.*

2018: Rosario, M., *Staining Techniques in Human Brains.*

## Service

### Service to the Institution

#### Department Assignments

##### Coordinator/Director:

2012-2013 – 2016-2017: Biomechanics Research Advisor and Coordinator

#### Department Assignments

##### Member:

2016-2017 – 2019-2020: Admissions Committee

2016-2017 – 2017-2018: Professional Committee

#### University Assignments

##### Member:

2019-2020: Faculty Awards Committee

2018-2019 – 2019-2020: Research Advisory Committee

#### University Assignments

##### Member:

2017-2018: Research Support Committee

#### University Assignments

##### Member:

2017-2018: University Curriculum CommCurriculum Mappingittee

#### University Assignments

##### Member:

2019-2020: University Curriculum Committee

##### Mentoring Activities:

2017-2018 – 2019-2020: Pioneers with a Cause Outreach Organization (PCOO)

2016-2017 – 2018-2019: Student Organization-Spanish for Health Care Org

## Service to the Profession

### Academic Conference: Judge

2017: 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS).

2011: 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS).

#### **Other Professional Service Activities**

2017 – 2018: Anatomy Lower Limb Review, Dallas, Texas.

2017 – 2018: Advanced Upper Extremity Anatomy Review.

#### **Reviewer: Article / Manuscript**

2017: Caffeine and Research, Dallas, Texas.

2017: Autism and Developmental Disorder.

### **Service to the Community**

#### **Chair of a Committee**

2019: Anatomy Tour at the Mall, The objective is to create the outreach activity at the mall, for the nursing students and PT students at an early stage of their training in school to practice with general population across Dallas. The students will engage with the general public in the mall to teach them what they learned in anatomy class while practicing their clinical skills. By giving this opportunity to students, they can take advantage to learn new skills early in their careers. Also, the public's engagement can serve as a motivation for them and it creates the conscience for taking better care

2018 – 2019: Outreach Community Service, Community Service Outreach Activity for a HIV center Clinic in Puerto Rico

2018 – 2019: Interdisciplinary Anatomy Outreach Weatherford College Occupational Therapy Assistant Program

2018: Anatomy Tour at the Mall, The objective is to create the outreach activity at the mall, for the nursing students and PT students at an early stage of their training in school to practice with general population across Dallas. The students will engage with the general public in the mall to teach them what they learned in anatomy class while practicing their clinical skills. By giving this opportunity to students, they can take advantage to learn new skills early in their careers. Also, the public's engagement can serve as a motivation for them and it creates the conscience for taking better care

2018: Human Anatomy Observational Outreach Week, The human anatomy observational outreach week (anatomy week) is an initiative to target undergraduate woman and minority students with interest in learning advanced human anatomy at Texas Woman's University Denton Campus. The purpose of the outreach activity is to enhance student learning of human anatomy through observation, and identification of human cadavers as well as encourage students to pursue Graduate or Allied Health Career. Our methods include the following: having students take a pre-test before going to the anatomy laboratory, then students will observe human cadavers and identify the structures related to the following anatomical systems: integumentary, muscular, skeletal and nervous systems. After the anatomy laboratory experience, students will answer a post-test with the purpose of quantifying learning parameters. Finally, to measure the success of the activity, we will ask students to respond to a survey related to the discussed topics during the activity. We hypothesize that the outreach will help them understand the different anatomical systems in a human body in a real setting to obtain a better grade at post-test. Our future goals are to establish the Anatomy Week two times during a scholar year and to encourage and inspire students to continue further graduate studies.

2017 – 2018: Outreach Community Service, Community Service Outreach Activity for a HIV center Clinic in Puerto Rico

#### **Other Community Service Activities**

2016: L a Perla de Gran Precio HIV Community Center

### **Honors/Awards**

#### **Award**

2019: Redbud Award Outstanding Faculty, TWU Dallas Center.

2018: Students for Teaching and Assignment Recognition, Texas Woman's University.

2018: 2018 Redbud Award outstanding Faculty/Instructor, TWU Dallas Center.

2016: Judge Travel Award for 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Annual Biomedical Research Conference for Minority Students (ABRCMS).

2016: Recognition for Oral Presentation: The Expression of Gait Deficiencies in Patients with Controlled Type II Diabetes



Mellitus., University of Puerto Rico Medical Sciences Campus, 35th Annual Research and Education Forum..

2016: Andreas Vesalius Award, University of Puerto Rico School of Medicine Department of Anatomy.

2015: Recognition for Oral Presentation, Postural Control in Children with Mild Autism., University of Puerto Rico Medical Sciences Campus, 35th Annual Research and Education Forum..

2015: American Anatomy Association Poster Finalist, Experimental Biology (EB) meeting March, 2015 in Boston.

2015: Excellence in Research, Associate Deanship for Biomedical Sciences and Graduate Programs.

2013: Graduate Student Development in Research, Visiting Scholarship, RCMI.

2013: Travel Award, Federation of American Societies for the 2013 Institute on Teaching and Mentoring.

2012 – 2013: Excellence in Research, Associate Deanship for Biomedical Sciences and Graduate Programs.

2011: Poster/Oral Presentation Travel Award, Federation of American Societies for Experimental Biology (EB) meeting.

2011: Travel Award, Federation of American Societies for Experimental Biology, for 2011 American College Sport Medicine 58th Annual Meeting and 2nd World Congress on Exercise held in Denver, Colorado.

2011: Peer Mentor Travel Award, Federation of American Societies for 2011 ABRCMS meeting in St. Louis, MO.

2010: Excellence in Research, Associate Deanship for Biomedical Sciences and Graduate Programs.

2010: Travel Award, American Anatomy Association Student/Postdoc Travel Award, Experimental Biology (EB) meeting in Anaheim, CA.

2010: Poster/Oral Presentation Travel Award, Federation of American Societies for Experimental Biology, Experimental Biology (EB) in Anaheim, CA.

2010: American Anatomy Association Poster Finalist, Experimental Biology (EB) meeting in Anaheim, CA.

2010: Poster/Oral Presentation Travel Award, Federation of American Societies for Experimental Biology, for 2010 American College Sport Medicine 57th Annual Meeting and World Congress on Exercise held in Baltimore, MD.

2010: American College Sport Medicine, Membership Award.

2009: Travel Award, Federation of American Societies for Experimental Biology, Leadership Development and Grant Writing Seminar Program for Graduate Students and Postdocs.

2009: Travel Award, Federation of American Societies for Experimental Biology for 2009 American College Sport Medicine 56th Annual Meeting held in Seattle Washington.

### **Honor**

2019: Woodcock Institute Fellow, Texas Woman's University.

2018: Dean Distinguished Fellow, TWU.

2011: Leadership,, Associate Deanship for Biomedical Sciences and Graduate Programs. 2011.

2011: Participation Recognition, Brain Awareness Week,, Associate Deanship for Biomedical Sciences and Graduate Programs. 2011.

2004: Cum Laude, UPR Bayamon Campus.

2003: Recognition, UPR Bayamon Campus, Center of Resource and Learning.

### **Miscellaneous**

#### **Other**

2009 - Medicine Basketball Team

2007 - Professional Handball Team