

**Rolando J. Acosta Nuñez**

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**Education:**

**University of Puerto Rico in Humacao (UPRH)**, Humacao, PR  
*Bachelors of Science in Computational Mathematics*  
*Major GPA 4.00/4.00 – Overall GPA 3.97/4.00*  
Expected: May 2017  
*May 2012 – Present*

**Experience:**

**Department of Mathematics, UPRH**  
*Undergraduate Research Scientist*  
Humacao, PR  
*January 2015 - Present*

- Mentored by Dr. Joaquín Rivera
- Project: A Model for Dengue Control in Puerto Rico Using Genetically Modified Mosquitoes (GMM)

**Harvard Medical School**  
**DBMI/HST Summer Institute in Biomedical Informatics**  
*Summer Undergraduate Research Intern*  
Boston, MA  
*June 2016 – Aug. 2016*

- Mentored by Dr. Chirag Patel and Dr. Chirag Lakhani
- Project: A Geo-Temporal Database for the External Exposome

**Harvard T.H. School of Public Health**  
**Summer Program in Biostatistics and Computational Biology**  
*Summer Undergraduate Research Intern*  
Boston, MA  
*June 2015 – July 2015*

- Mentored by Dr. Tianxi Cai and Dr. Sheng Yu
- Project: Automated Phenotyping of Patient EMR Data: Feature Extraction and Selection

**University of Iowa College of Public Health**  
**Iowa Summer Institute in Biostatistics**  
*Summer Undergraduate Research Intern*  
Iowa City, IO  
*June 2014 – July 2014*

- Mentored by Dr. Eric Foster in collaboration with Mitchell Thomann
- Project: Assessing the Effect of Practical Considerations when using the CRM in Dose Finding Studies

**Teaching:**

**Python Workshop**  
*Teaching Fellow*  
UPRH  
*Sep. 2015*

**Math Instructor**  
*Teaching Assistant*  
Upward Bound  
*Jan. 2013 – May 2013*

**Extracurricular & Outreach:**

**Include-a-Thon (Hack-a-thon)**  
*Programmer*  
Piloto 151  
*Oct. 2015*

- Worked in a project to create a marketing map for fashion brands
- Programming in Python and R
- Use of Twitter's API and R Packages Shiny and Leaflet

**Volunteer Work**  
*Volunteer*  
Nano Day Talks  
*April 2015*

- Presented Nano technology focused workshops to elemental, middle, and high school students

**Volunteer Work**  
*Volunteer*

Alianza para la Paz Social (ALAPÁS)  
*June 2013*

- Basic manipulation of databases using FileMaker Pro

**Volunteer Work**  
*Volunteer*

Museo del Niño  
*Dec. 2012*

- Presented math and science topics to elemental and middle school students

**Talks & Poster:**

- **Acosta R**, Bhav S, Lakhani C, Patel C. A Geo-Temporal Database for the External Exposome. Annual Biomedical Research Conference for Minority Students, Nov. 2016 (Poster), HMS-HST/DBMI Summer Institute in Biomedical Informatics Symposium, Aug. 2016 (Talk), and BD2K group meeting, Aug. 2016 (Talk)
- **Acosta R**, Burdziak C, Artman W, Yu S, Cai T. Automated Phenotyping of EMR Data: Feature Extraction and Selection. Seminario Interuniversitario de Investigación en Ciencias Matemáticas (SIDIM), March 2016 (Poster), Productive Summer Forum, Sep. 2015 (Talk), Department of Mathematics Seminar, Sep. 2015 (Talk), and Harvard T.H Chan School of Public Health Summer in Biostatistics and Computational Biology Symposium, July 2015 (Talk)
- **Acosta R**, Bonnett T, Sprecher C, Foster E. Assessing the Effect of Practical Considerations when using the CRM in Dose Finding Studies. Undergraduate Mathematics Research Conference (UMaRch), Feb. 2015 (Talk), Department of Mathematics Seminar, Sep. 2014 (Talk), and the University of Iowa College of Public Health Iowa Summer Institute in Biostatistics Symposium, July 2014 (Talk)

**Programming Skills:**

- Python
- R
- Matlab
- PostgreSQL
- MySQL

**Affiliations:**

- Minority Access to Research Careers (MARC U-STAR)
- Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
- Math Alliance