



Diyaselis Delgado

EXPERIMENTAL HIGH ENERGY PHYSICIST

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"Be the change that you want to see in the world."

Education

Ph.D. in Experimental High Energy Physics

HARVARD UNIVERSITY

- Expected graduation date: May 28, 2026.

Cambridge, Massachusetts, USA

Sep. 2020 - present

B.Sc. in Theoretical Physics with Minor in Applied Mathematics

UNIVERSITY OF PUERTO RICO MAYAGÜEZ (UPRM)

Mayagüez, Puerto Rico, USA

Aug. 2015 - Jun. 2020

Research Experience

REU Cornell University

CLASSE CORNELL UNIVERSITY

- Evaluated strain gauge measurements of carbon fiber Dee for the CMS Phase-2 Upgrade of the Tracker Forward Pixel Detector.

Ithaca, New York, USA

Sep. 2018 - Dec. 2018

REU University of Michigan

CERN (EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH)

- Tested various analysis examples for preservation and reproducibility via computational workflows for the CMS Experiment.

Geneva, Switzerland

Sep. 2018 - Dec. 2018

Non-Member State Summer Student Program

CERN (EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH)

- Wrote computational workflows for a CMS physics analysis, of 2011-2012 raw data and Monte Carlo simulations for the reimplementation of the Higgs boson discovery.

Geneva, Switzerland

Jun. 2018 - Aug. 2018

CMS UPRM Particle Physics Group

UNIVERSITY OF PUERTO RICO, MAYAGÜEZ

- Worked with Dr. Sudhir Malik, a focused in High Energy Physics research group doing analysis involving the event display and identification of particles due to proton-proton beam collisions in the CMS Detector. More in depth, analysis on supersymmetry, and top tagging

Mayagüez, Puerto Rico, USA

Aug. 2017 - Jun. 2020

Honors & Fellowships

2020 **Fellowship**, Harvard Graduate School of Arts and Sciences Prize Fellowship

Cambridge, MA

2020 **Award**, Enrico Fermi Award, UPRM Department of Physics

Mayagüez, PR

2019 **Scholarship**, ACJ (Retired Professors Association) Scholarship

Mayagüez, PR

2017 **Scholarship**, ACJ (Retired Professors Association) Scholarship

Mayagüez, PR

Selected Presentations

Top quark mass measurement from b-jet energy spectrum at 13 TeV

CMSDAS, FERMILAB (FERMILAB)

Batavia, IL

Jan. 2020

Strain gauge measurements of carbon fiber Dee for the CMS Phase-2 Upgrade of the Tracker Forward Pixel Detector

SPS PHYSCON CONFERENCE

Providence, RI

Nov. 2019

On-Demand Distributed Workflows for Physics Analysis at CMS Experiment

APS APRIL MEETING

Denver, CO

Apr. 2019

CMS DPOA-ReANA Reproducible Analysis

CERN SUMMER STUDENT POSTER SESSION

Geneva, Switzerland

Aug. 2018

Publications

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| 2020 | Open data provenance and reproducibility: a case study from publishing CMS open data , CHEP 2019 Proceedings | <i>Adelaide, Australia</i> |
| 2019 | Strain gauge measurements of carbon fiber Dee for the CMS Phase-2 Upgrade of the Tracker Forward Pixel Detector , Tech Report, Cornell University | <i>Ithaca, NY</i> |
| 2019 | CERN: The Place To Be , Article, SPS Observer, Spring Issue 2019 | <i>Geneva, Switzerland</i> |
| 2018 | On-Demand Distributed Computing Workflow for Physics Analysis at the CMS Experiment , CERN Note | <i>Geneva, Switzerland</i> |