

Carlos Yero

Work Address

12006 Rattley Road
Newport News, VA 23606
(786) 387-8667

EDUCATION

Ph.D, Physics Expected: December, 2019
Florida International University, Miami, FL
Research Topic: “Deuteron Electro-Disintegration at Very High Missing Momenta”
Major Advisor: Dr. Werner Boeglin

Magna CUM Laude B.S., Physics (2014)

RESEARCH EXPERIENCE

Florida International University, Miami, FL

Graduate Research

August 2014 - present

- Currently working on hardware as part of Hall C 12 GeV Upgrade. Specifically, on setting up electronics for various detectors in the High Momentum Spectrometer (HMS) arm. Future plans on setting up a coincidence trigger between the two spectrometer arms, HMS and Super HMS.
- Analyzed strangeness photoproduction data for Jefferson Lab, Hall B g12 Experiment. The analysis focused on extraction of polarization observables from $\gamma p \rightarrow K^* \Lambda$ reaction.

Undergraduate Research

January 2013 - April 2014

- Polished and tested scintillator bars for Jefferson Lab, Hall D Start Counter

TEACHING EXPERIENCE

Florida International University, Miami, FL

Recitations

August 2015 - April 2016

- Two semesters of Physics I and II teaching assistant, which focused on problem-solving techniques that complement the lectures.

Introductory Physics Labs

August 2015 - April 2016

- Two semesters of teaching Physics I and II Laboratory, in which students develop and strengthen physics concepts imparted in lectures as well as critical thinking skills.

PRESENTATIONS

“Deuteron Electro-Disintegration at Very High Missing Momenta”, Hampton University Graduate Studies (HUGS) Program, NewportNews, VA, June 2016.

SKILLS

Operating Systems: Microsoft Windows Vista/7 and UNIX-Linux
Programming Languages: Python and C++
Bilingual on English and Spanish

REFERENCES

Dr. Werner U. Boeglin (Major Advisor)
Department of Physics
Florida International University
Miami, FL 33125
✉ boeglinw@fiu.edu
☎ (305) 348-1711

Dr. Joerg Reinhold (Professor)
Department of Physics
Florida International University
Miami, FL 33125
✉ reinhold@fiu.edu
☎ (305) 348-6422

Dr. Mark Jones (JLab Staff Scientist)
CEBAF Center - Hall C
Thomas Jefferson National Laboratory
Newport News, VA 23606
✉ jones@jlab.org
☎ (757) 269-7733