Lucas Flores
Curriculum vitae

Work experience

JULY 2013 – PRESENT
University of California, Riverside
Undergraduate Researcher

Jet Studies/Analysis in the Heavy Ion research group at UC Riverside under Professor Richard Seto, Ph.D. Worked mainly with ROOT, Pythia, and FastJet software to conduct Jet studies in the forward rapidity region for a proposed detector. I will be continuing this research throughout the year and will be writing up this current project in my senior thesis this coming Fall and possibly Winter.

JULY 2012 – SEPT 2012
University of California, Riverside
Research Internship

The position was a research internship at Brookhaven National Laboratory in Long Island, NY. I worked with the PHENIX collaboration under professor Richard Seto of UC Riverside. For the whole of the summer I worked on Jet studies of simulated Pythia events. The events of interest were mostly heavy Ion (Au+Au & d+Au) at forward rapidity.

Education

2010 – PRESENT	**Bachelor of Science** PHYSICS & APPLIED MATHEMATICS *The University of California, Riverside, CA*
2006 – 2010	**Diploma** AP PHYSICS, AP EURO *Centennial High School, Corona, CA*

Publications, Talks, & Posters

2012	**Poster at the Annual Fall Department of Nuclear Physics Conference** *Jet Studies*
2013	**Senior Thesis** *Jet Studies Using Pythia simulations and FastJet Reconstruction*

Languages

ENGLISH	Fluent/Native Speaker
SPANISH	Basic Knowledge
FRENCH	Basic Knowledge

21412 Moser Dr. 92883 Corona, Ca
+1 (951) 545 3382
lflor017@ucr.edu
Linkedin Profile Page
Personal Website

Software skills

GOOD LEVEL	C++, C, ROOT, UNIX, Windows, Excel, PowerPoint
INTERMEDIATE	Mathematica, Pythia
BASIC LEVEL	LaTeX, Shell Scripting Languages, FastJet, HTML, CSS, Arduino

Relevant Academic Record

2012 – 2013	**Classical Mechanics I**	B
	Electrodynamics I	A-
	Linear Algebra I	A
	Classical Mechanics II	A+
	Electrodynamics II	A+
	Linear Algebra II	B+
	Electromagnetic Waves	A
	Thermodynamics	A
	Optimization	A-
2013 – 2014	**Quantum Mechanics I**	A
	Electronics Lab	A+
	Differential Equations I	A
	Quantum Mechanics II	N/A
	Senior Thesis	N/A
	Differential Equations II	N/A
	Statistical Mechanics	N/A
	Modern Physics Lab	N/A
	Differential Equations III	N/A
2014 – 2015	**Particle Physics**	N/A
	Numerical Analysis I	N/A
	Complex Analysis I	N/A
	Complex Analysis II	N/A
	Current Cumulative GPA:	3.84