Lucas Flores

Curriculum vitae

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Linkedin Profile Page
Personal Website

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
The University of California, Riverside, CA

2010 – Present **Bachelor of Science**
Applied Mathematics
The University of California, Riverside, CA

Publications, Talks, & Posters

2012 **Poster at the Annual Fall Department of Nuclear Physics Conference**
Jet Studies

2014 **Senior Thesis**
Jet Studies Using Pythia simulations and FastJet Reconstruction

Languages

English Fluent/Native Speaker

Spanish Basic Knowledge

French Basic Knowledge

Software & Programming

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	A+
	Differential Equations II	A
	Statistical Mechanics	N/A
	Computational Physics	N/A
	Differential Equations III	N/A
2014 – 2015	**Numerical Analysis I**	N/A
	Senior Thesis	N/A
	Complex Analysis I	N/A
	Particle Physics	N/A
	Quantum Mechanics III	N/A
	Modern Physics Lab	N/A
	Complex Analysis II	N/A
	Current Cumulative GPA:	3.85