CHRIS PEDERSEN

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EDUCATION

Florida State University *December 2012*
M.S. in Physics
At time of degree GPA: 3.094
Overall GPA: 2.792

New College of Florida *May 2011*
B.A. in Physics
Thesis: Measurement of the Proton Spin Structure Function g1 with Data from the EG1-DVCS Experiment

EXPERIENCE

Florida State University August 2011 - May 2015
Graduate Researcher and Teaching Assistant *Tallahassee, FL*

· Graduate researcher in Experimental Hadronic Physics specifically data analysis for hadron spectroscopy.
· Teaching assistant in charge of leading lab classes for introductory Physics 1 and 2 for 6 semesters including summers.
· Primary tutor in the library for all undergraduate physics including physics 1&2, Modern physics, Mechanics, E&M 1&2, Stat Mech, and Quantum 1&2 classes for one semester.
· Research primarily consisted of data analysis and simulation using C++, ROOT, and custom libraries specific to JLAB's CLAS detector.

College of William and Mary June 2010 - August 2010
Undergraduate Researcher *Williamsburg, VA*

· Undergraduate researcher in Experimental Hadronic Physics through the NSF R.E.U. program.
· Began learning ROOT and doing data analysis using C++ and the ROOT library.

TECHNICAL STRENGTHS

Computer Languages	C++, bash/tcsh, Python, C#*
Protocols & APIs	XML, JSON
Databases	MySQL
Tools	ROOT, Vim, Emacs, SVN, Git, Mathematica, Latex
Game Engines	Unity*, UE4*, CryEngine/Lumberyard*

*Items I only limit experience with and a basic level of mastery.

GENERAL STRENGTHS

· Very strong math background including advanced calculus, advanced linear algebra, differential equations, probability, and some knowledge of group theory

· Very strong problem solving and logical thinking skills

· Experience dealing with large custom code libraries

· Experience dealing with large amounts of data and advanced data analysis techniques