

# CHRIS PEDERSEN

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## EDUCATION

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**Florida State University**  
M.S. in Physics

*December 2012*

**New College of Florida**  
B.A. in Physics

*May 2011*

Thesis: Measurement of the Proton Spin Structure Function  $g_1$  with Data from the EG1-DVCS Experiment

## EXPERIENCE

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**Florida State University**  
*Graduate Researcher and Teaching Assistant*

August 2011 - May 2015  
*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**  
*Undergraduate Researcher*

June 2010 - August 2010  
*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

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

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

## GENERAL STRENGTHS

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- 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