

James R. Castle

CONTACT INFORMATION	151 S Locust Hill Dr. Apt. 1104 Lexington, KY 40517	<i>Mobile:</i> (513) 390-2634 <i>E-mail:</i> jrcastle90@gmail.com <i>Webpage:</i> www.drjcastle.com <i>LinkedIn:</i> linkedin.com/in/jrcastle90
SUMMARY	<ul style="list-style-type: none">• 5+ years of experience in Big Data analytics at the European Organization for Nuclear Research Large Hadron Collider (CERN LHC)• Example analysis projects can be found at https://github.com/jrcastle• Skilled in multiple programming/scripting languages, including C++ and python	
EDUCATION	University of Kansas , Lawrence, KS Ph.D. in Physics Northern Kentucky University , Highland Heights, KY B.S. in Physics and Mathematics	2017 2012
PROFESSIONAL EXPERIENCE	Graduate Research Assistant Physics and Astronomy Department, University of Kansas <ul style="list-style-type: none">• Formulated original scientific research that led to 1 conference presentation and peer-reviewed publication• Spearheaded and deployed autonomous data-driven calibration workflows, which have vastly improved the quality of 4+ petabytes of data collected at the CERN LHC, used for analyses resulting in 10+ publications• Successfully mentored next-generation researchers to operate and maintain calibration workflows for future data acquisition• Contributed to novel software development cycles of the open-source Compact Muon Solenoid Software project at https://github.com/cms-sw/cmssw Graduate Teaching Assistant Physics and Astronomy Department, University of Kansas <ul style="list-style-type: none">• Instructed three introductory physics lab sections per semester• Volunteered to provide weekly recitation sections for students struggling with the course material	2013–present 2012–2013
TECHNICAL SKILLS	Statistical Analysis: Unfolding/deconvolution, hypothesis testing, Monte-Carlo simulation, multivariate analysis Machine Learning: Supervised learning, linear/logistic regression Programming/Scripting Languages: C++, Python, Unix/Linux shell, Mathematica, MATLAB, Octave Source Control Systems: Git, SVN Databases: SQL Applications: L ^A T _E X, Microsoft Excel, Microsoft PowerPoint Operating Systems: OS X, Unix/Linux, Windows	
HONORS AND AWARDS	Honors distinction in final Ph.D. defense, University of Kansas Honors distinction in Ph.D. candidacy exam, University of Kansas Outstanding Graduate Teaching Assistant, University of Kansas Outstanding Senior in Physics, Northern Kentucky University Outstanding Senior in Mathematics, Northern Kentucky University Greaves Undergraduate Research Fellowship, Northern Kentucky University	2017 2015 2013 2012 2012 2010