James R. Castle

| CONTACT INFORMATION | 151 S Locust Hill Dr. Apt. 1104 Lexington, KY 40517 | Mobile: (513) 390-2634 E-mail: jrcastle90@gmail.com Webpage: www.drjcastle.com LinkedIn: linkedin.com/in/jrcastle90 |
|----------------------------|---|---|
| SUMMARY | 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, Highlands, B.S. in Physics and Mathematics | 2017 nd Heights, KY 2012 |
| PROFESSIONAI EXPERIENCE | peer-reviewed publication • Spearheaded and deployed autonomous have vastly improved the quality of 4+ LHC, used for analyses resulting in 10 • Successfully mentored next-generation ibration workflows for future data accessfully dependent of the contributed to novel software develop Muon Solenoid Software project at hte Graduate Teaching Assistant Physics and Astronomy Department, University of the contributed three introductory physics | that led to 1 conference presentation and s data-driven calibration workflows, which petabytes of data collected at the CERN 0+ publications a researchers to operate and maintain calquisition oment cycles of the open-source Compact tps://github.com/cms-sw/cmssw 2012–2013 arsity of Kansas |
| TECHNICAL SKILLS | Statistical Analysis: Unfolding/deconvolution, hypothesis testing, Monte-Carlo simulation, multivariate analysis Machine Learning: Supervised learning, regularized linear/logistic regression, neural networks Programming/Scripting Languages: C++, Python, Unix/Linux shell, Mathematica, MATLAB, Octave Source Control Systems: Git, SVN Databases: SQL Applications: LATEX, Microsoft Excel, Microsoft PowerPoint Operating Systems: OS X, Unix/Linux, Windows | |
| HONORS AND AWARDS | Honors distinction in final Ph.D. defense, U Honors distinction in Ph.D. candidacy exact Outstanding Graduate Teaching Assistant, Outstanding Senior in Physics, Northern K Outstanding Senior in Mathematics, Northern Greaves Undergraduate Research Fellowship | n, University of Kansas 2015 University of Kansas 2013 entucky University 2012 ern Kentucky University 2012 |