

# Clark Casarella

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## SUMMARY OF QUALIFICATIONS

- Analytical skills: 5+ years experience working on the collection and analysis of large data sets using statistical methods, utilized and designed algorithms for data analysis and interpretation over a broad range of programming languages.
- Communication skills: 4+ conference appearances to brief international science community on analysis results, with 7+ years of individual and group physics and math teaching experience.
- Writing skills: co-authored multiple scientific papers published in top nuclear physics journals, with 2 first author works on my research. Created training manuals for various software/analysis packages for less-experienced graduate students inside my research group.

## EDUCATION

<b>University of Notre Dame</b> , Notre Dame, IN Doctor of Philosophy, Nuclear Physics	October 2016
<b>University of Notre Dame</b> , Notre Dame, IN Master of Science, Physics	December 2014
<b>University of North Georgia</b> , Dahlonega, GA Bachelor of Science, Physics	May 2011

## PROFESSIONAL EXPERIENCE

<b>University of Notre Dame</b> , Notre Dame, IN	Graduate Student Researcher, 2011 - 2016
<ul style="list-style-type: none"><li>• Performed detailed quantitative analysis of large, event-based data sets using Mathematica, FORTRAN77 codes, and custom Python3 scripts, resulting in 2 first author and 2 co-authored publications in Physical Review C.</li><li>• Prepared focused, concise summaries of key qualitative results and interpretation of quantitative analysis. Presented both preliminary and final results at national-level scientific conferences to experts in nuclear physics.</li><li>• Implemented schedules and techniques to ensure efficient data analysis across multiple experiments.</li></ul>	
<b>Private Math &amp; Nuclear Physics Tutor</b> , Notre Dame, IN	2012-2015
<ul style="list-style-type: none"><li>• Tutored a wide array of high-school level mathematics (Trigonometry/Geometry, advanced Algebra) and undergraduate level Calculus to 4 students.</li><li>• Taught intermediate/basic nuclear physics materials and concepts for Medical Dosimetry Certification Board exam.</li></ul>	

## HONORS AND INTERESTS

- Outstanding Senior Physics Graduate, (University of North Georgia 2011)
- Lifelong PC gaming enthusiast, daily consumer of Twitch.tv products, audiophile quality sound recording/design