

## Wee Don Teo — Resume

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CONTACT INFORMATION	33 Terraview Blvd. Toronto, ON M1R 4L8, Canada	☎ 416-383-1568 ☎ 416-887-6881 ✉ don.teo@gmail.com
OBJECTIVE	To secure a position applying 5+ years of quantitative research, analysis, and programming skills to solve challenging data-driven problems.	
EDUCATION	<b>Ph.D. Physics, Cornell University</b> <b>January, 2013</b> Thesis: <i>Search for Supersymmetry with b-quark Jets and Missing Transverse Energy in pp Collisions at <math>\sqrt{s} = 7</math> TeV</i> <b>M.Sc. Physics, Cornell University</b> <b>June, 2010</b> <b>B.Sc. Mathematics and Physics, University of Toronto</b> <b>June, 2007</b>	
AWARDS	Natural Sciences and Engineering Research Council of Canada Postgraduate Fellowship • American Association of Physics Teachers Outstanding Teaching Assistant of the Year • Dean's List • Samuel Beatty In-Course Scholarship • Donald G. Ivey Scholarship in Physics	
WORK EXPERIENCE	<b>Graduate Researcher, Cornell University</b> <b>2008 - 2013</b> <ul style="list-style-type: none"><li>• Member of the Compact Muon Solenoid experiment at the Large Hadron Collider of the CERN laboratory in Geneva, Switzerland.</li><li>• Worked in tight-knit teams on large-scale data analysis projects that successfully measured the production rate of rare particles and that searched for as-yet-undiscovered particles.</li><li>• Analysis responsibilities included the processing of datasets, the planning and optimization of the analysis strategy, the determination of selection efficiencies/systematic uncertainties, and the development of novel background-estimation methods.</li><li>• Developed a suite of data quality monitoring visualization software tools that provided real-time diagnostics on the performance of the detector trigger systems.</li></ul> <b>Graduate Teaching Assistant, Cornell University</b> <b>2007 - 2009</b> <ul style="list-style-type: none"><li>• Conducted weekly tutorial and laboratory sessions, prepared quizzes, and graded homework sets and examinations in fundamental physics courses for engineers and pre-med majors. Taught and supervised a total of roughly 60 students per semester.</li></ul> <b>Undergraduate Research Assistant, York University/University of Toronto</b> <b>2006 - 2007</b> <ul style="list-style-type: none"><li>• Implemented pattern-finding and distortion correction methods in C++ for calibrating beam images using a proton beam monitor system prototype and custom-made Monte Carlo simulations.</li><li>• Built a complete simulation model of the beam monitor system using proprietary ray-tracing software for studying the effects of system misalignment and beam size uncertainty on the final physics measurement.</li></ul>	
COMPUTER SKILLS	<ul style="list-style-type: none"><li>• <b>Analysis Tools:</b> Significant experience with ROOT analysis framework. Working knowledge of R, Excel. Past experience in Maple, Mathematica.</li><li>• <b>Languages:</b> Proficient in C++. Working knowledge of Java, Python, SQL. Past experience in Perl, Unix shell scripts. Experience with CVS, SVN revision control systems.</li><li>• <b>Operating Systems:</b> Extensive experience with Unix/Linux, Windows.</li></ul>	
SELECTED PUBLICATIONS	<ul style="list-style-type: none"><li>• <i>Search for Supersymmetry in Events with b-quark Jets and Missing Transverse Energy in pp Collisions at 7 TeV</i>, CMS Collaboration, 2012, Phys. Rev. D 86 072010</li><li>• <i>Measurement of the <math>t\bar{t}</math> Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification</i>, CMS Collaboration, 2011, Phys. Rev. D 84 092004</li><li>• <i>Commissioning of the CMS High-Level Trigger with cosmic rays</i>, CMS Collaboration, 2010, JINST 5 T03005</li></ul>	
LANGUAGES	<ul style="list-style-type: none"><li>• Fluent: English, Mandarin. Intermediate: Cantonese, French. Basic: Japanese.</li></ul>	