Steven Kaplan

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Education

Ph.D. Physics *October 2017*
Rutgers, The State University of New Jersey, New Brunswick, New Jersey
Thesis: A search for LEDs in the non-resonant $\gamma\gamma$ channel with $35.9\,\mathrm{fb}^{-1}$ of $\sqrt{s} = 13$ TeV LHC data

B.S. *cum laude* Physics *May 2009*
Loyola University Chicago, Chicago, Illinois

Relevant Experience

D. E. Shaw & Co., New York, NY
Human Capital Data Analyst *August 2018 - Present*

- Converted data from multiple sources into findings and recommendations for leaders in the firm
- Develop models that provide stakeholders deeper insight into the recruiting process
- Proactively generate ideas for improvements to existing reporting and data integrity
- Increase the capacity of the team to automate report preparation
- Provide analysis of data to stakeholders firm-wide on an ad-hoc basis

CMS Experiment at CERN, Geneva, CH
Graduate Researcher *January 2012 - February 2018*

- Designed and implemented a search for beyond-the-standard-model physics in the CMS experiment at the Large Hadron Collider
- Developed methods to measure experimental systematic uncertainties in order to perform statistical hypothesis testing
- Invented techniques to distinguish between fake and real photon objects
- Performed analysis of multiple TB of data on a scientific grid spanning thousands of nodes
- Designed a classifier to discriminate between decays of light- and heavy-flavor jets, improving precision over previous work
- Contributed to 3 peer-reviewed scientific publications

Skills & Knowledge

Computing Languages and Skills Python (NumPy, SciPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Bokeh, etc.), C++, SQL, Java, Command Line, Shell Scripting, Distributed Computing, LaTeX, git, svn, also familiar with HTML and Fortran

Technical Skills Machine Learning, Statistics, Data Cleaning, Data Wrangling

Software Excel, MS SQL Server, Tableau, Linux, macOS