

Ryan Grosso

New York, New York

📞 845-220-6999 • ✉ 1grossora@gmail.com • 🌐 www.RyanGrosso.com
linkedin.com/in/Ryan-Grosso github.com/1grossora

Employment

- **Insight Data Science** **New York, NY**
Data Science Fellow, *Sept 2017–Present*
 - Built a framework for Instagram 'influencers' and marketing agents to predict the number of likes for an individual post on a user by user basis. The blog post is located at <http://bit.ly/predictogram>
 - Scraped various web sources such as Instagram and SocialBlade to build a data set from image, text and Instagram metadata features.
 - Cross validated and optimized features for machine learning regression models. Interpreted valuable insights for user specific models along with understanding the effect of the Instagram *smartfeed* algorithm.
- **University of Cincinnati** **Cincinnati, OH**
Research Associate, *2013–2017*
 - Leveraged clustering, machine learning, and deep neural network algorithms to identify features in multi-TB data sets obtained from particle interactions at Fermilab National Lab.
 - Played a leading role in the publication of a foundational research paper that implements deep learning image techniques on neutrino data that revolutionized the field.
 - *Convolutional Neural Networks Applied to Neutrino Events in a Liquid Argon Time Projection Chamber.* arxiv.org/pdf/1611.05531.pdf
 - Gained experience with hardware design and new innovative electronics prototyping with limited resources.
- **University of Cincinnati** **Cincinnati, OH**
Teaching Assistant, *2010–2012*
 - Co-taught and developed a physics course aimed at intuitive reasoning of physics models.
 - Developed methods and strategies to convey complex physics concepts in a logical and digestible manner.
 - Maintained weekly hours at the university study center and provided individual study sessions for graduate and undergraduate students.

Technical and Personal skills

- **Programming Languages:** Python, C, C++, SQL, Git, \LaTeX , HTML/CSS.
- **Data Skills:** Multivariate regression and classification, NLP, neural networks, cross validation and quality metrics.
- **Software Tools:** Numpy, Scipy, Pandas, Scikit-learn, TensorFlow, Matplotlib, Seaborn.

Education

- **University of Cincinnati** **Cincinnati, OH**
Ph.D Experimental Particle Physics *2013–2017*
- **University of Cincinnati** **Cincinnati, OH**
M.Phil Physics *2010–2013*
- **Lycoming College** **Williamsport, PA**
B.S. Physics, B.A. Astronomy *2006–2010*