

Steven Macaуда

steven.macaуда@gmail.com ❖ (708) 674-5912 ❖ New York, NY ❖ smacaуда.github.io

SKILLS

- **Programming:** Python; C++; SQL; Java; JavaScript; R; HTML; CSS
- **Communication/ Visualizations:** Tableau; Matplotlib; Seaborn; Jupyter;
- **Data Science/Engineering:** Scikit-Learn; TensorFlow; PyTorch; Spark; Hadoop; Pandas
- **Cloud Technologies:** AWS; Azure; Google Cloud Platform

EDUCATION

University of California

PhD Student in Physics

Sep. 2017 – Jan. 2019

Davis, CA

- **Key Courses:** Quantum Field Theory, Statistical Mechanics, Experimental Methods, Mathematical Methods

University of Illinois Chicago

BS, Physics

May, 2016

Chicago, IL

- **Seymour Margulies Scholarship:** awarded to the student who receives the highest grade in upper level electromagnetism course.
- Completed **CMS Data Analysis School (2016)** at the **Fermilab LPC**.

WORK EXPERIENCE

Sharpest Minds

Data Science Fellow

May 2022 – Present

Remote

- Collaborating with Head of Data Science at COMMB

University of Illinois at Chicago

Research Assistant

Dec. 2014 – Sep. 2017

Chicago, IL

- Performed quality testing on 100s of pixel detector modules for installation in the CMS detector at CERN, leading to a **10% improvement** in tracking parameters.
- Wrote and maintained Python and C++ scripts to monitor data quality.
- Analyzed LHC detector output at the Fermilab LPC and documented anomalous results.
- Utilized data visualization techniques in C++ and Python to present results at weekly meetings.

Multiple Companies

Tutor

Sep. 2017 – Present

Brooklyn, NY

- Instruction provided in college level physics, mathematics, and computer science.

PROJECTS

Predict Customer Propensity to Buy an iPhone Based on Past Spending Habits

- Trained kNN classifier to 93% accuracy and logistic regression to 91% accuracy to predict which customers bought iPhones.

Bike Demand Prediction

- Bike sharing data from Washington, DC. Trained random forest to determine demand per hour of bicycles at city bicycle stations with a mean absolute error of 1.26.

Sentiment Analysis of Amazon Reviews

- Used Amazon review data to classify tweets into positive and negative sentiment categories using NLP.

PUBLICATIONS

- “*The DAQ and Control System for the CMS Phase-1 Pixel Detector Upgrade*”, W. Adam *et al* (2019) JINST **14** P10017
- “*Precision Measurement of the Structure of the CMS Inner Tracking System Using Nuclear Interactions*” CMS Collaboration (2018) JINST **13** P10034