

Victor Ramirez

DATA SCIENTIST

Chicago, IL

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Experience

Civis Analytics

Chicago, IL

APPLIED DATA SCIENTIST

July 2018 - PRESENT

- Collaborated with an agile, cross-functional team to create and maintain media optimization software that informs multi-million dollar media buying tactics. Specifically, I developed the ETL pipeline feeding the data to our models, deployed fixes for bugs, and added new features to expand the tool's capabilities.
- Developed an R Shiny app that visualized various health metrics by US county, empowering our client to make data-driven decisions on which regions to target for their wellness programs.
- Conducted analyses and authored white-papers about improving HPV vaccination rates through persuasive messaging, tactics for boosting clinical trial enrollment, and understanding the growing usage and demand for virtual healthcare.
- Constructed a united data asset of health metrics from disparate public data sources that is being licensed out to clients.

National Superconducting Cyclotron Laboratory

East Lansing, MI

RESEARCH ASSISTANT

Feb. 2017 - Dec. 2017

- Computationally applied Variational Monte Carlo and the Metropolis Algorithm to simulate quantum mechanical models.

Michigan State University Department of Physics and Astronomy

East Lansing, MI

TEACHING ASSISTANT

Sept. 2015 - Aug. 2017

- Guided students of diverse technical backgrounds to a better conceptual and mathematical understanding of physics.

Michigan State University Department of Physics and Astronomy

East Lansing, MI

RESEARCH ASSISTANT

Mar. 2013 - Aug. 2016

- Co-authored a paper published in Physical Review B about observed effects from scanning tunneling microscopy.

Education

Michigan State University

East Lansing, MI

BACHELOR OF SCIENCE IN PHYSICS, GPA: 3.8/4.0

Aug. 2014-Dec. 2017

- Minor, Computational Math, Science, and Engineering
- Goldwater Institutional Nominee, Lansing Promise Scholar, Honors College

Springboard

Online

DATA SCIENCE CAREER BOOTCAMP

Feb. 2018-May 2018

- Partnered with professional data scientists to cultivate fundamental data science knowledge and skills.

Projects

Music Genre Clustering

- Developed a bokeh data visualization of music genre groupings corresponding to clusters generated by K-Means and other unsupervised machine learning algorithms. [\[Repo\]](#) [\[Medium Article\]](#) [\[Slide Deck\]](#)

March Madness Prediction

- Created a classification model to predict NCAA tournament games which placed within the top 10% in the Kaggle leaderboard. Applied regression techniques to create a profitable betting strategy for NCAA tournament games. [\[Repo\]](#) [\[Slide Deck\]](#)

Thee Hourz O' Power

- Hosted a weekly radio show about heavy metal with a small team. Created a [Tableau dashboard](#) representing music played from our show.

Skills

Technical Tools Python, Pandas, Scikit-learn, R, Tidyverse, Shiny, Redshift SQL, Excel

Soft Skills Client communication, technical mentorship