

# Victor Ramirez

Chicago, IL

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## Professional Experience

### Civis Analytics

Applied Data Scientist

Chicago, IL

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.
- United disparate public data sources into a single repository of geographic-level health data

## Education

### Michigan State University

B.S. Physics, Computational Math, Science and Engineering Minor

East Lansing, MI

Aug. 2014–Dec. 2017

- GPA: 3.8/4.0; Accolades: Goldwater Institutional Nominee, Lansing Promise Scholar, Honors College
- Relevant Coursework: Intro to Data Science, Computational Physics, Computational Modeling, Tools and Techniques

**Independent Study:** Springboard Data Science Career Track (2018)

## Educational Experience

### National Superconducting Cyclotron Laboratory (NSCL)

Research Assistant

East Lansing, MI

Feb. 2017–Dec. 2017

- Integrated Variational Monte Carlo and the Metropolis Algorithm to write a Python program simulating quantum dots

### Michigan State University Department of Physics and Astronomy

Teaching Assistant

East Lansing, MI

Sept. 2015–Aug. 2017

- Guided students to think analytically and connecting everyday intuition with physics phenomena

### University of Washington, National Science Foundation

Research Assistant (REU)

Seattle, WA

June–August 2016

- Optimized apparatus by simulating imaging system in order to measure more accurate readouts of quantum states. Paper

### Michigan State University Department of Physics and Astronomy

Research Assistant

East Lansing, MI

May 2013–June 2016

- Fabricated superconducting samples and co-authored a paper published in Physical Review B.

## Projects

### Music Genre Clustering: [\[Repo\]](#) [\[Medium Article\]](#) [\[Slide Deck\]](#)

- Compared music genres groupings to clusters generated by K-Means and other unsupervised machine learning algorithms.
- Developed a bokeh app to visualize audio feature distribution among sample music data.

### March Madness 2018: [\[Repo\]](#) [\[Slide Deck\]](#)

- 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.

## Activities

**DJ, Host of Thee Hourz O' Power at Impact89FM:** DJ'd and lead a small team for a weekly radio show about heavy metal. Created a Tableau dashboard representing music played from our show.