

Jose Hernandez, PhD

DATA SCIENTIST

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Skills

Programming R*, Python, SQL, MPlus

Stats Bayesian & Frequentist Inference, Mixed Effects, Experimental Design, Causal Inference, Machine Learning, Monte Carlo Simulation

Tools caret, tidyverse, fClust, stan, lmer, skfuzzy, pandas, matplotlib, NumPy, scikit-learn, Scrapy, Misc: ~~TeX~~ \LaTeX , git

Work Experience

Data Scientist

April 2018 - Present

UNIVERSITY OF WASHINGTON, eSCIENCE INSTITUTE

Seattle, WA

- Lead Data Scientist, providing technical mentoring to an interdisciplinary team to assess, map and analyze access to out-of-school resources for students in Denver, CO.
- Create and teach workshops on open source tools (R and Python) to greater University and surrounding community

Data Scientist

January 2017 - March 2018

COMMUNITY CENTER FOR EDUCATION RESULTS

Seattle, WA

- Leveraged predictive analytics and machine learning techniques to drive strategic decision-making and continuous improvement efforts for education outcomes in the region. [example](#)
- Defined KPIs, and use-cases for data products. (i.e. Interactive dashboards using SQL-R-Tableau).
- Designed and standardized methods to retrieve, integrate, and aggregate data from disparate sources thereby optimizing the data collection processes for future projects. [example](#)

Postdoctoral Fellow

Jan. 2016 - July 2016

INSIGHT DATA SCIENCE

Seattle, WA

- Consulted with startup CEO and communicated technical results/methods that lead to actionable insights used by the company to improve their product.
- Mined 300-million user database using PostgreSQL, R and Python to determine mobile phone app user audience segments for advertiser clients using Machine Learning clustering techniques. [example](#)

Research Scientist

June 2015 - December 2016

UNIVERSITY OF WASHINGTON

Seattle, WA

- Lead data analyst on various on-going grant projects. From design to data collection/management, to analysis and reporting.
- Created statistically matched comparison samples for quasi experimental intervention studies.
- Communicated technical results that helped collaborators, stakeholders, and funding agencies from varying multidisciplinary backgrounds determine the efficacy of their investments.
- Develop interactive workshops to help research organizations transition to open-source technologies (R and Git) for collaborative data analyses and reporting.

Relevant Teaching

Course Developer + Instructor - Feature Engineering Using R

January - April 2018

DATA CAMP

Seattle, WA

Quantitative Methods in Education Research

Winter 2017

UNIVERSITY OF WASHINGTON

Seattle, WA

Education

Ph.D. Statistics and Measurement

Seattle, WA

UNIVERSITY OF WASHINGTON, SCHOOL OF EDUCATIONAL PSYCHOLOGY

2010 - 2015

Minor: Statistics, Department of Statistics

B.A. Social Ecology

Irvine, CA

UNIVERSITY OF CALIFORNIA

2001 - 2006