

# Kevin R. Pan

Research analyst, data consultant, and machine learning curriculum developer excited about using data to solve problems.

## EXPERIENCE

### Research Analyst

*The Brattle Group – San Francisco, CA*

July 2016 - Present

- Extracted insights from thousands of datasets, PDFs, and spreadsheets produced by Fortune 500 companies, private equity firms, and major healthcare providers.
- Streamlined hundreds of model runs using data.table with training speed up of 10x.
- Created and led office-wide seminar on interactive data visualization libraries in R.
- Led two formal trainings for new consultants in R and SQL.
- Provided research and data visualizations of blockchain technologies.

### Data Fellow and Teaching Fellow

*Delta Analytics – San Francisco, CA*

January 2017 - Present

- Provided regression tree analysis and data visualization of BUILD's program elements to inform data-driven changes to the curriculum.
- Worked on development of an open machine learning curriculum on GitHub.
- Applied machine learning methods to Kiva data using R and Jupyter notebooks.

### Data Analysis Lead

*Bernoulli One / Wharton Digital Health Club – Philadelphia, PA*

January 2016 - April 2016

- Created a model to predict health condition deterioration, finding a lead on the industry standard by 12 seconds, using neural networks, PCA and ARMA in R.
- Presented an analysis of false positive alerts and health alarm sensitivities to reduce nurse and doctor alarm fatigue to Bernoulli's executive team.

### Quantitative Analytics Intern

*Tudor Investment Corporation – Greenwich, CT*

June 2015 - August 2015

- Optimized bond price curve estimation for 30x speed while maintaining model accuracy using scipy and pandas.
- Created flexible classes to calculate swap instrument pricing using Python.

### Research Assistant

*National Bureau of Economic Research / The Wharton School – Philadelphia, PA*

March 2014 - August 2014

- Scraped and cleaned economic forecast data to analyze prediction error trends over time using Java and R.

## EDUCATION

### BA in Mathematical Economics, University of Pennsylvania

September 2012 - May 2016

- Minors in Computer Science and Statistics

## PERSONAL INFO

San Francisco

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[kevinrpan.com](http://kevinrpan.com)

[github.com/kevinrpan](https://github.com/kevinrpan)

## SKILLS

### Machine Learning:

Classification, feature engineering, clustering

### Statistical Methods:

Regression models, hypothesis testing, time series, PCA, dimensionality reduction

### Data Visualization

## TECHNOLOGIES

### Proficient with:

R: tidyverse, data.table, ggplot2, rmarkdown, shiny, leaflet, plotly, sparklyr

Python: pandas, scikit-learn, numpy

SQL

Excel

Git

## INTERESTS

Lifelogging