

# ADRIAN YI

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Personal page | LinkedIn | GitHub

Data Scientist with 5+ years of experience in research, statistical tools, and programming

## SKILLS

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Programming	Python, MATLAB, HTML/CSS/JavaScript, Unix
Deployment	AWS, Flask, Docker, PostgreSQL, Heroku
Analysis	SQL, Pandas, Scipy, Matplotlib, Seaborn, D3.js, Statistics, Data Wrangling
ML	Classification, Regression, NLP, Scikit-learn, Keras, TensorFlow

## EXPERIENCE

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Fellow – The Data Incubator March 2018 – Present

- Completed weekly projects with real life data that cover topics like data wrangling, machine learning, natural language processing, and MapReduce/Spark
- Built an NLP project (Topic Insight) and was selected to present it to industry data scientists

Research Fellow & Research Consultant – Boston University May 2011 – February 2018

- Led a team of 3 researchers to create models that explains the inner workings of proteins used to control neuron cell activity
- Automated data pipeline and analysis using MATLAB, reducing analysis times by over 10x
- Built the lab's first time-resolved analysis technique using a custom baseline correction and SVD that maps the protein's state from  $10^{-9}$  to  $10^3$  seconds range

## PROJECTS

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Topic Insight (<https://topicinsight.adrianyi.com/>)

- Designed a general NLP product that finds similar documents and extracts words correlated with business metrics like higher views, faster responses for emails, etc.
- Built a live example app using 260,000 grants abstracts and their number of citations
- Merged and cleaned 5 separate data sources, each with millions of rows
- Tech: Python, NLP, Pandas, Scikit-learn, Flask, Docker, PostgreSQL, visualization

Dog Breed Classifier App (<https://adrianyi.com/2017/11/DogBreedApp.html>)

- Built an app that can classify an image into one of 133 dog breeds with 86% accuracy
- Deployed the model on AWS using Flask and Docker. Try it on the link above!
- Tech: Python, CNN, Keras, transfer learning, AWS, JavaScript

## EDUCATION

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Boston University Boston, MA | Sept 2010 – May 2017

- Ph.D. and M.A., Physics

Franklin and Marshall College Lancaster, PA | Sept 2005 – May 2009

- B.A. Physics and Mathematics

## COMMUNICATION

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- Teaching Fellow for Intro to Physics designed for engineering students (2 years)
- Published 5 papers and presented posters at 2 conferences