

Adrian Yi

EXPERIENCE

BOSTON UNIVERSITY

May 2011 – May 2017

Graduate Research Fellow

- Developed models for newly discovered proteins important to optogenetics, a technique revolutionizing modern neuroscience research
- Improved data acquisition, cleaning, processing, and analysis to standardized MATLAB codes, reducing analysis time by ~50x
- Built the lab's first time-resolved analysis algorithm using dimensionality reduction to separate distinct states from a protein's decay process
- Developed automatic baseline correction technique for time-resolved spectra
- Managed a small team and reported to an offsite principal investigator

PROJECTS

Dog Breed Classifier (<https://adrianyi.com/2017/07/DogBreedClassifier.html>)

- Created deep learning models that classify an image of a dog or a human into one of 133 dog breeds
- Trained a transfer learning model that achieved 86% accuracy
- Deployed the model on AWS EC2 using Flask and Docker—click on the link above to try it!

Facial Filter App (<https://adrianyi.com/2017/07/FacialFeatures.html>)

- Built an app that adds a facial filter (like Snapchat) in images & videos
- Utilized OpenCV and custom Keras models to detect faces and facial features, then used it to transform and merge the facial filter images

Software Development & Data Analysis for Non-profit

- Developed a Python script to generate tax receipts that reduced errors and manual work hours annually
- Provided leadership with visual insights on retention patterns for different demographics
- Determined few important indicators for higher retention by using statistics and machine learning

EDUCATION

BOSTON UNIVERSITY

Boston, MA | May 2017

- Ph.D., Physics (GPA: 3.89/4.00)
- 5 publications ([Google Scholar page](#))

FRANKLIN & MARSHALL COLLEGE

Lancaster, PA | May 2009

- B.A., Physics and Mathematics (GPA: 3.86/4.00)

eLearning

- *Udacity*: Artificial Intelligence Nanodegree
- *Udemy*: Computer Vision A-Z, Python and Django Full Stack, etc.

CONTACT

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GitHub

github.com/adrianyi

TECHNICAL SKILLS

Python



MATLAB



SQL



JavaScript



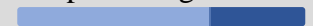
HTML



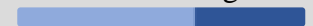
CSS



Deep learning



Machine learning



Flask



AWS



Docker



SOFT SKILLS

Fast learner

Analytical

Self-motivated

Persevering

Good communication