

Brandon Jin

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<https://greater7.github.io>

5149 5th Ave. Pittsburgh, PA 15232

Education

Carnegie Mellon University / Class of 2019
B.S. in Statistics & Machine Learning

Skills

Programming Skills: Python, C, Swift, Tensorflow, PyTorch, Natural Language Processing, Deep Reinforcement Learning, Neural Network, iOS Development, Microsoft Office
Statistical Skills: R, SAS, SQL, Construction & Diagnostic of Robust Parametric & Nonparametric Model from High Dimensional Messy Dataset, Data Visualization, Scientific Data Analysis Report, Data Cleansing, Supervised+Unsupervised Learning, Model Selection

Project & Research

Research Intern / Carnegie Mellon Field Robotics Lab January 2018 - Present
Data science team. Develop localization algorithm with Kalman Filter and graph optimization.

Shiny App - Understanding Kickstarter Projects December 2017

Visualization Shiny webapp showing characteristics of a dataset from Kaggle.

Link: <https://brandonjin.shinyapps.io/Downloads/>

Recognizing Unsegmented Handwriting with RNN December 2017

Built a recurrent neural network using the CTC cost function. Trained with a padded MNIST dataset. Achieved good performance.

Transformation of Image Style with CycleGAN architecture November 2017

Developed a neural network model that applies the style of one certain image of a set of images. The model is able to handle both geometric transformation as well as texture transformation.

Research Intern / Infant Language & Learning Lab

May 2017 - August 2017 Advisor: Dr. Erik Thiessen Tools: Swift, Python, XAMPP, SQL Lite

- Developed and designed a methodological approach to assess attention in infants to investigate early markers of attentional dysfunction, and potentially diagnose ADHD Implemented eye-tracking technology and SMI BeGaze Eyetracking Analysis Software to collect, extract, and analyze gaze shifts, blinks, saccades, fixations, and pupil dilation
- Cluster post-feature selection data using dimension reduction methods and unsupervised learning models
- Built a database to store data from iOS app

Question Generating And Answering System Mar 2017 - May 2017

Built an NLP program in Python that both generates and answers questions based on the content of a given web page using neural networks and various parsing algorithms.

R & D Intern / Schneider Electric Jul 2015 - Aug 2015

Conducting endurance and sensitivity tests. Programming prototypes.

Coursework

Introduction to Machine Learning (PhD) **Deep Learning (Masters)** **Data Mining**
Deep Reinforcement Learning & Control (Masters) **Graphics & Visualization in R**
Modern Regression(36-401) **Undergraduate Advanced Data Analysis(36-402)**

Work & Experience

Treasurer / Carnegie Mellon University Astronomy Club

Responsible for the financial planning and coordination.

Scholarship & IM Sports Chair and Pusher / CIA Buggy

In charge of academics as well as intramural sports of CIA Buggy team. Hill 5 pusher.

Office Assistant / Carnegie Mellon University Housing Services

Responsibilities include communication, filing reports, dealing with complaints and troubleshooting.