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### **FDUCATION**

#### **NEW YORK UNIVERSITY**

MS IN DATA SCIENCE May 2017 | New York, NY Cum. GPA: 3.75

#### STONY BROOK UNIVERSITY

BS IN ASTRONOMY/PLANETARY SCIENCE

& APPLIED MATHEMATICS AND STATISTICS

May 2013 | Stony Brook, NY Cum. GPA: 3.91

## LINKS

LinkedIn:// lizhentan Webpage: Liz-page

### **COURSEWORK**

Deep Learning
Machine Learning
Natural Language Processing
Time Series
Causal Inference
Big Data

## SKILLS

#### COMPUTER SKILLS/TOOLS

Linux • Python • R
PyTorch • LATEX • GitHub
Amazon AWS • MySQL • TensorFlow
Hadoop • Microsoft Office
Spark (beginner)

#### **LANGUAGE**

Fluent:

English • Chinese (Cantonese and Mandarin)

#### **LEADERSHIP**

#### GRADUATE:

Fall 2016 - Spring 2017 Secretary in Leadership Circle of CDS (Center for Data Science)

Spring 2017 Grader of Python class

#### **UNDERGRADUATE:**

All semesters
Dean's List
Fall 2012 - Spring 2013
Research intern (Astronomy)

### **WORK EXPERIENCE**

### **CIVITAS LEARNING** | Associate Data Scientist (Internship)

Summer 2016 | Austin, TX

- Collaborated with another intern on a new project for building predictive models on students' success based on their engagement in Learning Management Systems. (e.g. Blackboard, Oracle, etc.)
- Acquired data from data warehouse by performing SQL queries
- Analyzed top features of models for insights of students' engagement pattern using both unsupervised and supervised learning

## LAWRENCE BERKELEY NATIONAL LABORATORY | RESEARCH INTERN

Aug 2013 - May 2014

Term 1 • Utilized exist

- Utilized existing codes to perform image processing on microscope captured images to reduce aberration and astigmatism (MatLab)
- Discovered a possible new form of carbon by searching and matching pentagonal and/or heptagonal patterns in the enhanced images
- Term 2 Pre-processed agricultural data obtained from GAEZ3 website(R)
  - Performed data analysis on obtained data to investigate interactions between climate science and human activities
  - Employed geo-models to examine impacts on future crop productivity under geographical adaptation and non-adaptation

## **ACADEMIC PROJECTS**

# **BUILDING IMAGE GENERATOR USING CONDITIONAL DCGAN** Spring 2017 | New York University

- Controlled image randomness by adding class information to DCGAN model.
- Processed class context information into either one-hot embedding or pre-trained GloVe word embedding.
- Generated images were reasonable by feeding both MNIST and CiFar10 datasets. (better results using one-hot embedding)

# PREDICT AND QUANTIFY DEVELOPMENT INFLUENCE ON REAL ESTATE VALUES Fall 2016 | New York University

- Quantified influence of new transactions of commercial units on a pre-defined neighboring real estate values
- Applied machine learning techniques (Logistic Regression, Random Forest) to further explore the potential building features which had the most impact in the target (whether an influence existed)

# UNDERSTANDING AND LEARNING AN AUTOMATED QUESTION ANSWERING SYSTEM Spring 2016 | New York University

- Applied text analysis on questions asked on Yahoo! Answers: explored several multi-class classification methods to predict the question category (4 categories were used in the project)
- Built a program to output an answer to a newly asked question, where the answer was found from a similar archived question in the predicted category

# ANALYSIS OF INTERACTION AMONG DIFFERENT TAXI MODES IN NYC Spring 2016 | New York University

- Conducted data cleaning and data extraction using Map-Reduce on Hadoop
- Analyzed the interaction between newly introduced taxi modes (Uber, green taxis) and yellow taxis