

## Yian (Ann) Ding

Mount Holyoke College, South Hadley, MA 01075 | [ding25y@mtholyoke.edu](mailto:ding25y@mtholyoke.edu) | (413)331-8003

### EDUCATION

---

B.A. in Data Science & Psychology, Mount Holyoke College, MA Major GPA: 3.82. Jan. 2016 - Jan. 2020

- Honors: Sarah Williston Prize (top 3%), Academic Achievement Award (top 5%), Trustee Scholarship, Mary Lyon Scholar, Academic Excellence Award in Psychology

### WORK EXPERIENCE

---

#### Gap Inc.

Shanghai, China

Data Analyst Intern.

Jun. 2019 - Aug. 2019

- Collected and analyzed sale prices of clothing from competitors with one-year data using SQL and python
- Analyzed prices for similar clothing products with tests (KNN and ANOVA) using Python to recommend pricing strategy, providing reports with data visualization (Tableau) to the manager with positive feedback

#### Natural Language Processing (NLP) Lab, Soochow University

Suzhou, China

Research Assistant

Jun. 2019 - Aug. 2019

- Programmed scripts for face recognition and face tracking using Python (OpenCV and TensorFlow)
- Engineered and tested FaceSpy (Facial recognition Application) for community security to make sure FaceSpy works error-free

#### Interactive Computing Research Lab

Mount Holyoke College, MA

Research Assistant

Sep. 2018 - Present

- Tested, modified and productionized NAO Robot (programmable humanoid robot) API to support children-robot interaction experiments using Python
- Collected and analyzed the experiment data using R to identify patterns in children-robot interaction

#### Cognition Attention Perception Speech Lab

Jan. 2017 - Dec. 2019

Research Assistant

Mount Holyoke College, MA

Project: Speech-to-sound illusion

- Analyzed and extracted human pitches data using linear regression and autocorrelation with R
- Calculated the beat variability using a computational model designed to detect the beat times in music

Project: The Cat in the Hat

- Built a control model and a metric model for the study; the latter was tested to make significantly better predictions of word durations

### DATA PROJECTS

---

Natural Language Processing, Mount Holyoke College, MA

Aug. 2019 - Dec. 2019

Machine Learning in Yelp reviews

- Collected data from Yelp and built a model (Support Vector Classifier) using python to classify reviews into categories
- Utilized neural networks (RNN) to detect sentiments using Keras, the later achieved 95.46% accuracy

Data Science Capstone, Mount Holyoke College, MA

Aug. 2019 - Dec. 2019

Suicide Prediction and Prevention with Big Data: A Worldwide View

- Identified and filtered latent factors using Python in suicide prediction through factor analysis to achieve better prediction results
- Trained Machine Learning models (Random Forest and XGboost) to predict suicide rates with 92% accuracy and used K-means clustering to find useful clusters to analyze potential suicide factors around countries

### SKILLS SUMMARY

---

Languages: Advanced: Python, R, Java; Intermediate: SQL, MATLAB, C; Novice: JavaScript

Skills and Packages: Data Modelling, Machine Learning (Random Forest, XGboost), Exploratory Data Analysis, A/B Testing, Clustering

### HONORS & AWARDS

---

Mathematical Contest in Modeling 2019, Honorable Mentions (10%)

2019

Academic Excellence Award, MHC Department of Psychology

2017, 2018

Prize for Excellence in Mathematics and Computer Science, MHC Department of Mathematics

2017