

# YUCHEN TIAN

Data Analytics student seeking Spring 2022 internship



## EDUCATION

2021–  
Current

### Tufts University

MS Candidate in Data Analysis

Medford, MA

2017–  
2020

### Undergraduate University

B.S. in Statistics and Data Science

Goleta, CA



## RESEARCH EXPERIENCE

Aug.–  
Sep.2020

### Research on Lung Cancer Detection Improvement based on CNN

*Remote Part-time Assistant*

Remote, MIT

- Applied Python to establish a 3D Convolutional Neural Network(CNN) for a lung nodule detector to predict the possibility of disease based on CT images
- Responsible for the preliminary data preprocessing and training set creation, constructed a U-net network to segment the image of lung area; built the training method and network structure of 3D CNN



## SELECTED PROJECT EXPERIENCE

Nov.–  
Dec.2020

### Analysis of Survival Rates Following Hospital Admission for Acute Myocardial Infarction (R)

University of California Santa Barbara

Goleta, CA

- Cleaned data and handled with missing values based on “WHAS500” data set; applied BIC Model selection from Cox Proportional-Hazards Model to find the optimal covariates to fit the model.
- Conducted time-varying analysis of selected variables; figured out optimal Cox Proportional-Hazard model with time varying covariates of survival data.
- Put forward suggestions of avoiding cardiogenic shock or having early diagnosis and treatment to prevent risk

Sep.2020

### Forecasting the Daily Highest Prices of Stocks base on RNN (Python)

University of California Santa Barbara

Goleta, CA

- Processed data including cleaning NaN value, missing value, outlier value
- Built and trained an LSTM network with Tensorflow to forecast the stock prices based on the gathered data in terms of minimum price, maximum price, opening price, closing price, trading volume, trading volume, etc.



## CONTACT INFO

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## SKILLS

Performing **data analysis**, with a focus on engineering models

Wrote production-level  
**R/Python/Stata/SQL/SAS**

**Machine Learning** on cloud  
platforms (AWS)

*Last updated on 2021-12-01.*