

# Ruge Zhao

Stanford, CA

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## EDUCATION

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### STANFORD UNIVERSITY

#### *Master in Statistics*

09/2018-04/2020 (expected)

- *Academics*: GPA 4.06/4.3;
- *Teaching Assistant*: Mining Massive Data
- *Research Experience*:
  - *Rivas Lab supervised by Manuel Rivas*: Research in Bayesian joint model for time to event and longitudinal data using UK primary care data
  - *Submitted for KDD supervised by Prof. Jure Leskovec and Dr. David Hallac*: Deep learning models using TCN and triplet loss for driver identification using time series data from driving simulators
- *Course Projects*:
  - *Machine Learning*: Transfer learning of ResNet50 with focal loss for 28-class multi-label Protein Image Classification
  - *Computer Vision*: Multiclass Classification with CNN-RNN, and attention for the Met museum's catalog
  - *NLP*: Combined BERT and BiDAF models for SQuAD 2.0 Question Answering

### NATIONAL UNIVERSITY OF SINGAPORE

#### *Bachelor of Science in Statistics, with Highest Distinction (First Class Honors)*

08/2012-07/2016

- *Academics*: GPA 4.89/5.0
- *Awards*: Dean's List (top 5%); Recipient of Science & Technology Undergraduate Scholarship (full scholarship)
- *Research*: Research Assistant for Professor Jussi Keppo in a project adapting SIR model for epidemiology using non-linear optimization; Final Year Thesis in machine learning application in portfolio selection

## EXPERIENCE

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### Quora, Inc

Mountain View, CA

#### *Ads Data Scientist Intern*

06/2019-09/2019

- **Machine Learning**: Delivered machine learning algorithm using Vader sentiment, wordnet and Google Knowledge Graph to classify questions into different levels of commercial intent.
- **SQL**: Designed heuristic algorithms that surface trending contents using SQL and python for internal hackathon
- **Keyword Targeting**: Leveraged on Google *Adwords* API to evaluate Ads keyword targeting quality in python
- **Experimentation**: Analyzed ads targeting and front-end design experiments and advised on experiment setup and launch decisions
- **Data Visualization**: Visualized transition matrices to analyze new advertiser experience on ads manager

### Bloomberg L.P.

Singapore

#### *Company Financials Data Analyst*

07/2016-07/2018

- **Specialization**: Covering equity fundamental data for South East Asian markets, analyzed company financial data with data standardization and accounting adjustments to ensure data coverage, accuracy and timeliness
- **Business Intelligence**: Built interactive visualization web tools using html, JavaScript (dc.js and d3.js) and QlikView for project tracking, operational efficiency calculation, headcount planning
- **Statistical Analysis**: Conducted hypothesis tests using operational transparency data in R and QlikView that assisted manager's operational decisions in vendor management

### GfK Asia Pte Ltd

Singapore

#### *Market Research Intern*

12/2014-01/2015

- **Hypothesis Testing**: Developed research hypothesis that models digital and home appliances' sales at the end of its product life cycle using price tier analysis and brand analysis;
- **Regression**: Validated hypothesis in R and concluded when sales start to slow down in different products' life cycle

## SKILLS

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- **Technical Skills**: Python, R, SQL, pyspark, MATLAB; Machine Learning, Deep Learning (pytorch);
- **Visualization**: R Shiny, html and JavaScript (d3.js, dc.js), Tableau, QlikView/QlikSense