

# YU YANG

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## EDUCATION

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### University of Minnesota, Twin Cities

Ph.D. student in Statistics

GPA: 3.974/4

*August 2018 - Present*

Minneapolis, MN

### Shanghai University of Finance and Economics

Bachelor of Science in Statistics

GPA: 3.91/4

*September 2014 - June 2018*

Shanghai, China

## EXPERIENCE

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### Seagate Technology

*Research Assistant (Advisor: Prof. Xiaotong Shen; Mentor: Sthitie Bom)*

09/2019–Present

Minneapolis, MN

- Explored large-scale and multi-sourced datasets and proposed systematic preprocessing pipelines
- Constructed predictive models for defected wafer products
- Proposed causal inference models to unveil the causal relations among abnormal events in production

## PROJECTS

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### Retro-BiDAF: A Retrospective Reader Over BiDAF

10/2020–12/2020

- Proposed a novel model for SQuAD 2.0 Challenge
- Examined the idea of retrospective reading in the non-PCE scenario

### Kaggle: Lyft Motion Prediction for Autonomous Vehicles

09/2020–11/2020

*Team Members: Xuesong Hou, Chunlin Li, Yu Yang*

- Explored the large-scale video data and visualized the paths of vehicles.
- Built an ensemble model to predict the motion of self-driving vehicles
- Ranked top 6%

### Wells Fargo Campus Analytics Challenge 2020

07/2020–08/2020

*Team Members: Xuesong Hou, Chunlin Li, Yu Yang*

- Analyzed multiple models to identify proper encoding schemes
- Proposed a novel method called Sparse Grouping Pursuit which efficiently reduced feature dimension
- Won the Grand Prize of the year

### R Package: ImbCalib – Probability Calibration for Imbalanced Data

04/2020–05/2020

- Wrote an R package to calibrate probabilities for imbalanced data
- Compared probability calibrations visually and quantitatively

### MinneMUDAC 2019 Student Data Science Challenge

09/2019–11/2019

*Team: Women in Math and Stats (Advisor: Prof. Gilad Lerman)*

- Collected data from a wide range of sources and applied creative feature engineering
- Proposed insightful modeling strategies to predict the soybean futures closing prices
- Delivered talks in competition, to companies, seminars, and Meetup groups
- Won the Analytical Acumen Award

### Learning Rate Decaying Scheme Investigation

10/2019–12/2019

*Team Members: Liwei Huang, Yu Yang*

- Proposed several learning rate decaying schemes and applied them to MNIST and CIFAR-10
- Analyzed the decaying schemes in terms of convergence time and model performances

### **Kaggle: Travelers Claim Fraud Detection**

11/2018–12/2018

*Team Members: Somyi Baek, Sam Piehl, King Yiu Suen, Xun Xian, Yu Yang*

- Proposed a new feature which greatly improved the predictive capability
- Constructed an ensemble model for prediction and applied LIME for interpretation
- Won the 2nd place

## **TECHNICAL STRENGTHS**

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<b>Languages</b>	Python, R, Shell Scripting, C/C++, Matlab, SML, Racket, HTML, CSS, SQL
<b>Tools</b>	Git, VS Code, Google Cloud, AWS, L <sup>A</sup> T <sub>E</sub> X