Xiaobing Shen

100 Union Street SE, Minneapolis, MN 55455
shen0341@umn.edu xiaobing-shen-52550a1aa IcyShen16

Education

Shanghai University Of Finance and Economics **Sep. 2014 – May 2018**
Bachelor of Information Management and Information System(3.72/4.0)

University of Minnesota, Twin City **Sep. 2019 – Jun. 2024(expected)**
Ph.D of Industrial and System Engineering(4.0/4.0) *Supervised by Prof. Saif Benjaafar*

Research Interest

- Sharing Economy
- On-Demand Services
- Supply Chains
- Revenue Management

Relevant Coursework

- Optimization
- Algorithms Analysis
- Stochastic Process
- Machine Learning
- Deep Learning
- Text Mining
- Programming (C/C++)
- Economic Theory

Experience

Cardinal Operations **Sep. 2018 – Jul. 2019**
Intern *Shanghai, China*

- Production Planing and Scheduling problem from one of the largest electronics company of China: Performed preliminary analysis for the problem, implemented the Mixed-Integer Programming model using C++ and generated large-scale data to test the efficiency of the model
- Flight Scheduling problem from the Juneyao Airlines: Analyzed the demand of the company, proposed the column generation method and implemented the algorithm using Python and C

LU.com **Jun. 2018 – Jul. 2018**
Intern *Shanghai, China*

- Selected 230,000 prospective clients from a universal client pool (1.02 million clients) based on their behavioral history in the past three months, established a mixed model of SVM and Random Forest and finally 78% of the recommended clients bought equity-linked funds from Aug. 13 - Sep. 1

Sinolink Securities Co **Jun. 2017 – Jul. 2017**
Intern *Shanghai, China*

- Proposed a stock selection model by using Adaboost to integrate weaker classifier and tried using LSTM to analysis the pattern of the different stocks

Projects

Pre-conditioner Analysis | *Python, Cython, C* **Sep. 2017 - Jan. 2018**

- Used a mixed model of CNN and Random Forest methods to combine matrices' image and numerical information
- Predicted the rank of different pre-conditioners for Conjugate Gradient Method based on the image pattern and statistic information of matrices

Matching and Path Optimization | *C* **Jan. Apr. 2016 - Jun. 2016**

- Solved the sub-problems using Cplex and C
- Implemented Hungarian Algorithm in C to improve the efficiency of the Mixed-Integer Programming for the matching problem

Teaching

Simulation | *Prof. Alexander Estes* **Sep. 2021 - Dec. 2021**
Production and Inventory Control | *Prof. Sherwin Doroudi* **Jan. 2021 - May. 2021**
Optimization | *Prof. Jean-Philippe Richard* **Sep. 2020 - Dec. 2020**
Analytics for Personalized Medicine | *Prof. Kevin Leder* **Jan. 2020 - May. 2020**
Optimization | *Prof. Jean-Philippe Richard* **Sep. 2019 - Dec. 2019**

Technical Skills

Languages: Python, C/C++, Matlab, R, Java, SQL
Developer Tools: Pycharm, Visual Studio, Eclipse
Technologies/Frameworks: Linux, GitHub