

Keliang Wang

19 Hunting Heights Dr, Apt 5, Storrs, CT 06268

(585) 434-7198 | keliang.wang@uconn.edu

EDUCATION

University of Connecticut, School of Business Ph.D. student in Operations and Information Management department	Storrs, CT Aug. 2019 -
Columbia University, School of Engineering and Applied Science Master of Science in Operations Research	New York, NY Dec. 2018
Shanghai University of International Business and Economics Bachelor of Economics in Financial Engineering.	Shanghai, CN Jun. 2017

PROJECTS

Global Optimization with Neural Network Embedded University of Connecticut	Mar. 2020 -
<ul style="list-style-type: none">Formulating MIP with neural network as surrogate model; test the optimization model on benchmark functions	
Scraping and Analyzing an Online Hack Forum University of Connecticut, first year project	Sep. 2019 – May. 2020
<ul style="list-style-type: none">Design and implement an automated scraping agent in Python to fetch entire forum data; The dataset has a size of 700 MB with over 3M posts, 150K user profiles and 146 forumsMaintain the database in MariaDB; write SQL queries to cross validate the tables; conduct topic modeling using LDA to classify topics for each forum;	
Bounds of Parametric Sensitivities in Stochastic Simulation Columbia University, summer research project	Jun. 2018 - Sep. 2018
<ul style="list-style-type: none">Designed a simulation engine in MATLAB to simulate multi-class customers and servers queuing system and track interested performance measuresDemonstrated that new algorithm outputs upper bound of sensitivities of service rate and arrival rate simultaneously using single set of queuing simulation; compared results with score function method and finite difference	
Statistical Factor Model and Portfolio Optimization Columbia University, course project in Application Programming for Financial Engineering	Sep. 2017 - Nov. 2017
<ul style="list-style-type: none">Computed PCA decomposition of Russell 1000 stocks' return covariance matrix through Power MethodApplied synthetic factors to conduct mean variance portfolio optimization with short position, coding a C++ program calling Gourbi solver to find optimal portfolioStreamlined data extraction and finding optimal portfolio by interacting Excel VBA with C++ program through DLL; experimented on more complex constraints (e.g. optimal assets' quantity limit, minimum position size)	

WORK EXPERIENCE

Gfund Management Company Risk Management Intern	Shanghai, CN Nov. 2016 - Feb. 2017
<ul style="list-style-type: none">Developed Excel VBA to automate monthly risk control report and quantitative analysis on fund net valueMonitored the company funds by tracking their rate of return, volatility, max dropdown and beta value with CSI300Conducted macroeconomic research and industry research by analyzing key economic metrics from Wind financial terminal	

SKILLS & INTERESTS

Computers: MATLAB, Python and C/C++ (Baruch Pre-MFE Program Certification); LaTeX, Gurobi