

Maximillian (Max) Zhang

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Skills

Programming: MATLAB, Python, C, Maple

Mathematics: Stochastic Calculus, Dynamic Programming, Numerical Methods, Partial Differential Equations

Education

Boston University, Questrom School of Business

Boston, MA

M.S. Mathematical Finance & Financial Technology

Expected January 2022

Carnegie Mellon University

Pittsburgh, PA

B.S. Computation and Applied Mathematics

May 2020

- Coursework: Continuous Time Finance, Mathematics of Fixed Income Securities, Discrete Time Finance, Computational Introduction to Partial Differential Equations, Numerical Methods, Numerical Linear Algebra

Experience

CITIC Securities

Shanghai, China

Research Analyst Intern

June 2017 - July 2017

- Conducted comprehensive analysis on commercial real estate industry in mainland China by assessing financials and performing field visits to 15 different commercial real estate developments in Shanghai to construct research reports for the largest commercial real estate company in mainland China.
- Translated three annual reports of US commercial real estate companies to Mandarin for senior employees
- Prepared two versions of a comprehensive analysis of the largest commercial real estate company in mainland China in Mandarin by collaborating with supervisor for internal review and future publication

Boston Consulting Group

Hong Kong, China

Research Analyst Intern

June 2016 - August 2016

- Prepared multiple client-facing presentations on behalf of senior employees for projects pertaining to globalization initiatives for two different mainland Chinese automotive companies
- Researched and analyzed industry data to create three internal reports for consultants working with mainland Chinese clients to provide reference and improve efficiency for future projects
- Investigated up and coming disruptive technology relevant to global automotive industry and produced 2 internal presentations for senior employees

Projects

Carnegie Mellon University

Pittsburgh, PA

Project Leader, Modeling Reaction-Diffusion Systems in Epidemiology

Spring 2020

- Designed and implemented a convergent finite difference scheme for both a linearized and nonlinear modified SIR model in MATLAB; generalized nonlinear model to higher dimensions and performed stability analysis for two schemes

Optimizing Strategy for the Weakest Link

Fall 2019

- Developed dynamic programming models to analyze optimal strategy in a 3-player model based on positioning and competency
- Implemented models numerically in Python to compute optimal outcome and strategy for each player

Additional Information

Interests: Snowboarding, Skydiving, Surfing, Drumming

Languages: English (Native), Mandarin (Native), French (Basic), Italian (Basic)

Volunteering: Led beach clean-up efforts for local communities in Orange County (2020)

Other Activities: Member of electronic music duo Zealeon (2017-2020)